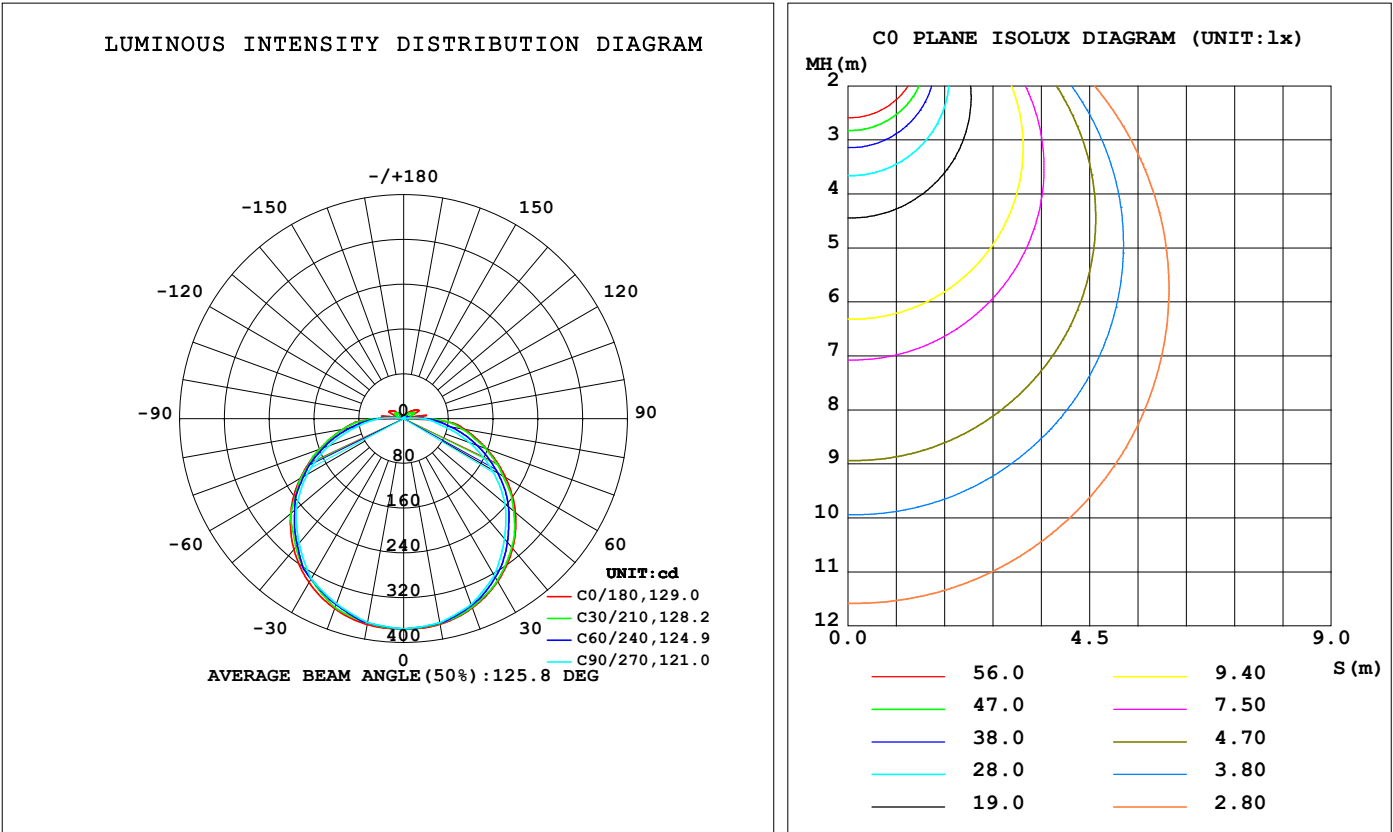


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: ABH14O2TW 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 99.98 lm/W
MODEL	ABH14O2TW 4000K	Imax (cd)	375.8	S/MH (C0/180)	1.34	
NOMINAL POWER(W)	13.7	LOR (%)	100.0	S/MH (C90/270)	1.30	
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	1364.2	η UP,DN (C0-180)	2.4,46.7	
NOMINAL FLUX(lm)	1364.24	CIE CLASS	DIRECT	η UP,DN (C180-360)	2.4,48.4	
LAMPS INSIDE	1	η up (%)	4.9	CIBSE SHR NOM	1.50	
TEST VOLTAGE (V)	230	η down (%)	95.1	CIBSE SHR MAX	1.50	



H(β) Range:-90 - 90DEG

H(β) Interval: 1.0DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:

Test Date:2023-09-04

V(B) Range:-180 - 180DEG

V(B) Interval: 5.0DEG

Humidity:65.0%

Test Distance:9.782m [K=1.0000]

Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	373.1	371.1	370.3	370.9	373.6	370.6	370.1	370.8	0- 10	35.60	35.60	2.61,2.61
20	359.4	356.7	353.1	355.6	360.9	354.5	351.7	355.8	10- 20	103.0	138.6	10.2,10.2
30	336.0	331.1	323.7	330.9	338.0	330.9	330.5	331.4	20- 30	159.0	297.7	21.8,21.8
40	302.7	295.5	280.2	296.6	305.1	302.4	290.7	301.4	30- 40	197.1	494.8	36.3,36.3
50	260.7	248.5	236.6	249.5	263.3	258.0	250.9	257.4	40- 50	212.5	707.3	51.8,51.8
60	210.2	201.6	182.1	201.2	213.2	212.3	199.4	213.4	50- 60	205.2	912.5	66.9,66.9
70	157.5	147.9	124.8	146.4	159.6	158.0	142.1	160.4	60- 70	175.3	1088	79.7,79.7
80	110.7	97.66	67.59	94.95	110.4	105.0	84.79	109.2	70- 80	130.5	1218	89.3,89.3
90	1.050	45.44	34.26	42.65	4.397	48.76	42.76	50.91	80- 90	79.77	1298	95.1,95.1
100	32.43	7.708	0.9196	6.482	18.96	8.041	0.7393	7.148	90-100	24.93	1323	97,97
110	4.544	12.53	1.453	11.94	12.35	10.29	1.332	10.77	100-110	5.839	1329	97.4,97.4
120	29.85	13.46	1.986	12.39	27.48	10.54	1.925	11.86	110-120	11.65	1340	98.3,98.3
130	22.97	11.19	1.983	9.872	20.45	8.769	1.875	11.45	120-130	11.25	1352	99.1,99.1
140	14.89	6.785	1.981	6.076	12.75	5.935	1.825	7.406	130-140	6.932	1359	99.6,99.6
150	7.285	2.629	2.208	2.650	5.943	2.711	2.015	2.948	140-150	3.369	1362	99.8,99.8
160	2.364	2.373	2.436	2.399	2.422	2.277	2.204	2.248	150-160	1.318	1363	99.9,99.9
170	2.436	2.439	2.440	2.409	2.422	2.348	2.313	2.343	160-170	0.6687	1364	100,100
180	2.443	2.443	2.443	2.443	2.422	2.422	2.422	2.422	170-180	0.2296	1364	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 600.5 lm

%lum = 44.0%
%lamp = 44.0%

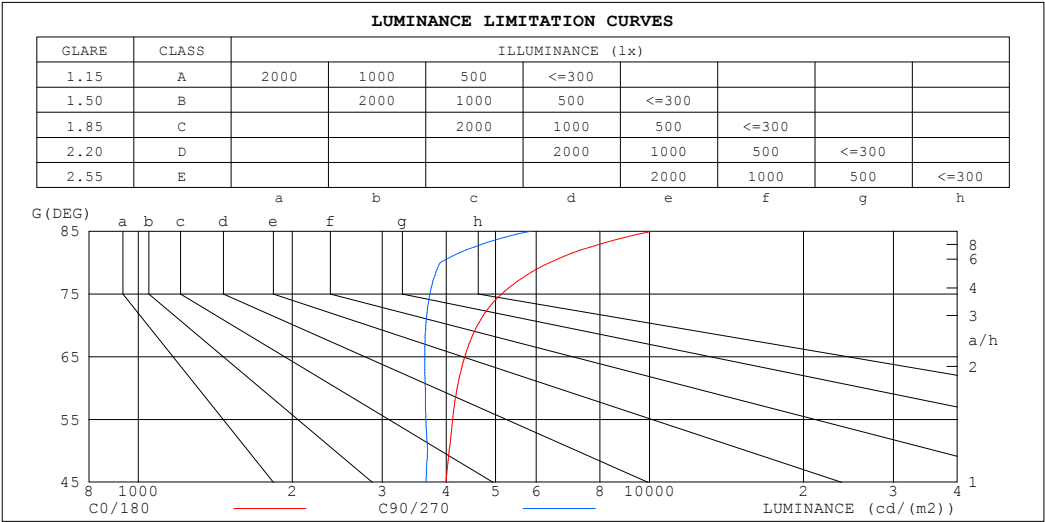
Conical surface Flux(120deg): 912.49 lm

%lum = 66.9%
%lamp = 66.9%

H(β) Range:-90 - 90DEG H(β) Interval: 1.0DEG Test Speed: HIGH Temperature:25.3°C Operators: Test Date:2023-09-04	V(B) Range:-180 - 180DEG V(B) Interval: 5.0DEG Humidity:65.0% Test Distance:9.782m [K=1.0000] Remarks:
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LUMINANCE LIMITATION CURVES

NAME: ABH14O2TW 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	10135	5846
80	6376	3892
75	5136	3719
70	4606	3650
65	4351	3632
60	4205	3642
55	4118	3650
50	4056	3681
45	3998	3655

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:2023-09-04

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG
Humidity:65.0%
Test Distance:9.782m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: ABH14O2TW 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.368	.209	.066	.359	.205	.065	.343	.197	.063	.328	.189	.061	.314	.182	.059		
2.0	.327	.179	.055	.319	.176	.054	.305	.169	.053	.291	.163	.051	.279	.158	.050		
3.0	.294	.156	.047	.287	.154	.046	.274	.148	.045	.262	.144	.044	.251	.139	.043		
4.0	.266	.138	.041	.260	.136	.040	.249	.132	.039	.238	.128	.039	.228	.124	.038		
5.0	.243	.124	.036	.238	.122	.036	.227	.118	.035	.218	.115	.034	.208	.111	.033		
6.0	.224	.112	.032	.219	.110	.032	.209	.107	.031	.200	.104	.031	.192	.101	.030		
7.0	.207	.102	.029	.202	.101	.029	.194	.098	.028	.186	.095	.028	.178	.093	.027		
8.0	.192	.094	.026	.188	.093	.026	.180	.090	.026	.173	.088	.025	.166	.085	.025		
9.0	.179	.087	.024	.175	.085	.024	.168	.083	.024	.162	.081	.023	.156	.079	.023		
10.0	.168	.080	.022	.164	.079	.022	.158	.077	.022	.152	.076	.021	.147	.074	.021		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.227	.227	.227	.194	.194	.194	.133	.133	.133	.076	.076	.076	.024	.024	.024	
1.0	.222	.193	.167	.190	.166	.144	.130	.114	.099	.075	.066	.058	.024	.021	.019	
2.0	.214	.169	.131	.184	.146	.113	.126	.101	.079	.073	.059	.046	.023	.019	.015	
3.0	.207	.152	.109	.177	.131	.094	.122	.091	.066	.070	.053	.039	.023	.017	.013	
4.0	.199	.139	.094	.171	.120	.081	.117	.084	.057	.068	.049	.034	.022	.016	.011	
5.0	.191	.129	.083	.164	.112	.072	.113	.078	.051	.066	.046	.030	.021	.015	.010	
6.0	.184	.121	.076	.158	.105	.066	.109	.073	.047	.063	.043	.028	.020	.014	.009	
7.0	.177	.114	.070	.152	.099	.061	.105	.069	.043	.061	.041	.026	.020	.013	.009	
8.0	.170	.108	.066	.146	.094	.058	.101	.066	.041	.059	.039	.024	.019	.013	.008	
9.0	.163	.103	.063	.141	.090	.055	.098	.063	.039	.057	.037	.023	.018	.012	.008	
10.0	.158	.099	.060	.136	.086	.053	.094	.061	.037	.055	.036	.022	.018	.012	.007	

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:
 Test Date:2023-09-04

V(B) Range:-180 - 180DEG
 V(B) Interval: 5.0DEG
 Humidity:65.0%
 Test Distance:9.782m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

NAME: ABH14O2TW 4000K					TYPE:					WEIGHT:				
SPEC.:					DIM.:					SERIAL No.:				
MFR.:					SUR.:					Shielding Angle:				
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3				
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3				
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2				
Room dimensions					Viewed crosswise					Viewed endwise				
x = 2H y = 2H					16.5	18.0	16.8	18.3	18.7	15.9	17.4	16.2	17.7	18.0
3H					18.6	20.0	19.0	20.4	20.7	17.6	19.1	18.0	19.4	19.7
4H					19.7	21.0	20.1	21.4	21.7	18.4	19.8	18.8	20.1	20.5
6H					20.8	22.1	21.2	22.4	22.8	19.1	20.4	19.5	20.8	21.2
8H					21.4	22.6	21.8	23.0	23.4	19.5	20.7	19.9	21.1	21.5
12H					22.1	23.3	22.5	23.7	24.1	19.9	21.1	20.3	21.4	21.9
4H 2H					17.2	18.5	17.6	18.9	19.2	16.7	18.0	17.1	18.4	18.8
3H					19.5	20.7	19.9	21.1	21.5	18.7	19.9	19.1	20.3	20.7
4H					20.7	21.8	21.2	22.2	22.7	19.6	20.7	20.1	21.2	21.6
6H					22.0	23.0	22.5	23.5	24.0	20.5	21.5	21.0	21.9	22.4
8H					22.8	23.7	23.3	24.1	24.6	20.9	21.9	21.4	22.3	22.8
12H					23.6	24.4	24.1	24.9	25.4	21.4	22.3	21.9	22.7	23.2
8H 4H					21.1	22.0	21.6	22.5	23.0	20.2	21.1	20.7	21.6	22.1
6H					22.7	23.5	23.2	24.0	24.5	21.3	22.1	21.9	22.6	23.2
8H					23.6	24.3	24.2	24.8	25.4	21.9	22.6	22.5	23.1	23.7
12H					24.7	25.3	25.2	25.8	26.4	22.6	23.2	23.1	23.7	24.3
12H 4H					21.2	22.0	21.7	22.5	23.0	20.3	21.2	20.8	21.7	22.2
6H					22.9	23.6	23.4	24.1	24.6	21.6	22.3	22.1	22.8	23.4
8H					23.9	24.5	24.4	25.0	25.6	22.3	22.9	22.8	23.4	24.0
Variations with the observer position at spacings(CIE Pub.117):														
S = 1.0H					+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H					+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H					+ 0.2 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117, 1364 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.1)
Area: 0.1 m2

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:2023-09-04

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG
Humidity:65.0%
Test Distance:9.782m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: ABH14O2TW 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

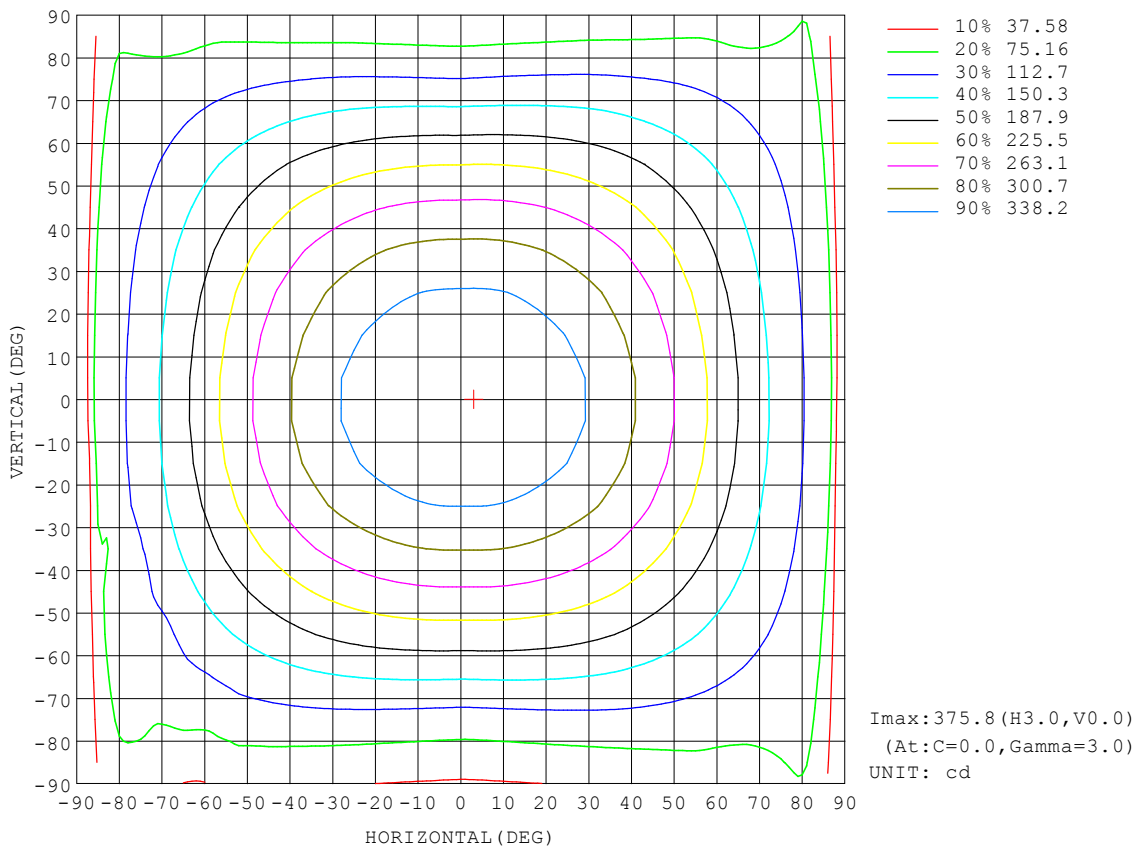
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	53	41	33	52	40	33	50	40	33	26
0.80	62	50	42	61	49	42	59	48	41	34
1.00	70	58	50	69	57	50	66	59	49	41
1.25	77	66	58	76	65	57	72	63	56	48
1.50	83	71	63	81	70	63	77	68	61	53
2.00	90	80	72	87	78	71	83	75	69	60
2.50	94	85	78	91	83	77	87	80	74	64
3.00	98	89	83	95	87	81	90	84	79	69
4.00	102	95	89	99	93	88	94	89	84	74
5.00	105	99	94	102	96	92	96	92	88	77
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

$H(\beta)$ Range:-90 - 90DEG
 $H(\beta)$ Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:
 Test Date:2023-09-04

$V(B)$ Range:-180 - 180DEG
 $V(B)$ Interval: 5.0DEG
 Humidity:65.0%
 Test Distance:9.782m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

NAME: ABH14O2TW 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



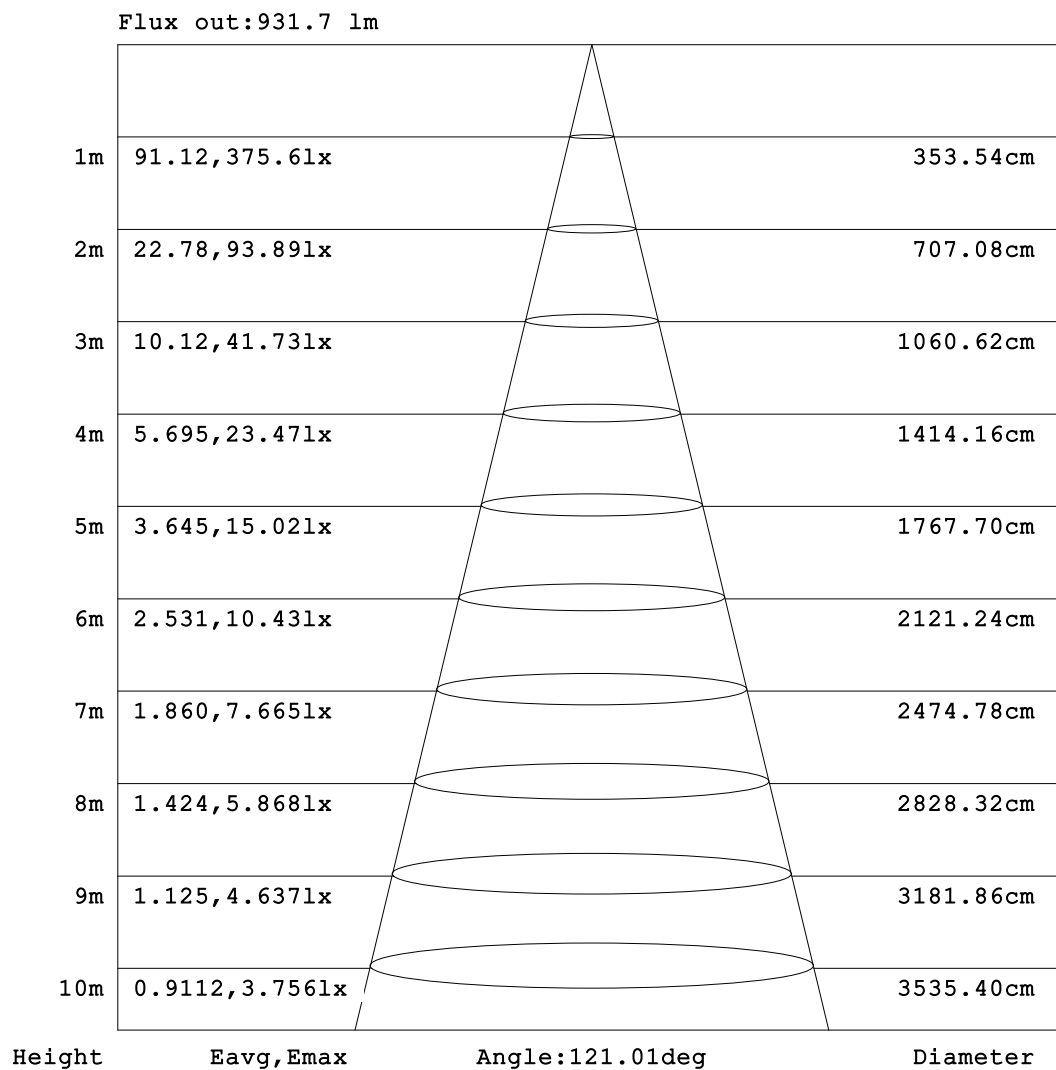
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2023-09-04

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG

Humidity:65.0%
Test Distance:9.782m [K=1.0000]
Remarks:

AAI Figure

NAME: ABH14O2TW 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

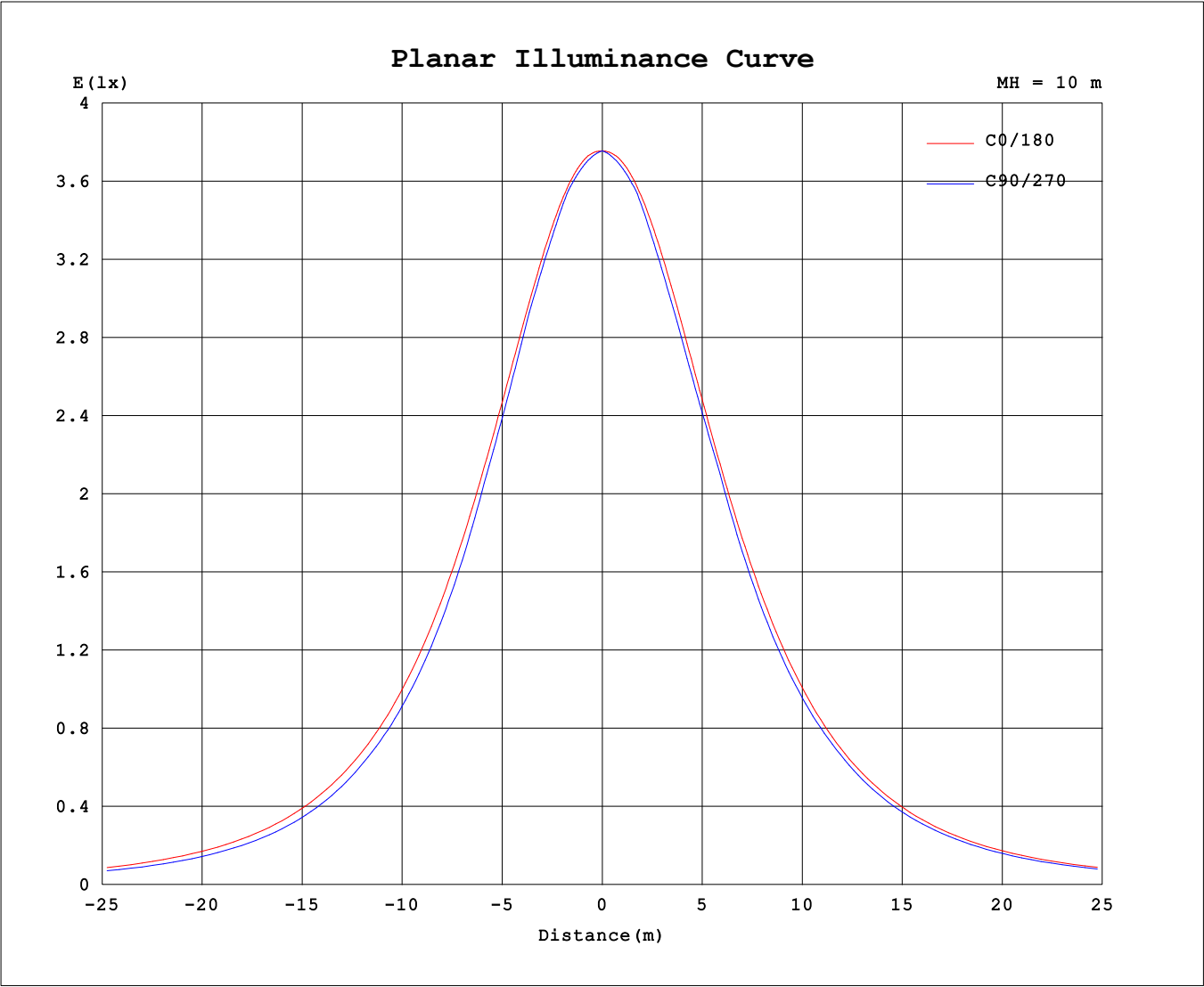


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:2023-09-04

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG
Humidity:65.0%
Test Distance:9.782m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:2023-09-04

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG
Humidity:65.0%
Test Distance:9.782m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: ABH14O2TW 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1																	UNIT: cd		
<div>C (DEG) γ (DEG)</div>	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	376	376	376	376	376	376	376	376	376	376	376	376	376	376	376	376	376	376	376
5	376	375	375	375	375	375	374	374	374	374	374	374	373	373	373	373	373	373	373
10	373	373	372	372	372	372	372	371	371	371	371	371	371	371	371	371	370	370	370
15	368	367	367	367	367	367	366	366	366	366	365	364	364	363	363	363	362	362	362
20	359	359	359	359	359	358	358	358	357	357	356	355	355	354	354	354	354	353	353
25	349	349	349	349	348	348	347	347	346	345	345	344	343	342	341	340	339	339	338
30	336	336	337	335	335	335	334	333	332	331	330	329	328	327	326	325	325	324	324
35	320	322	321	320	320	320	318	317	317	315	313	312	310	308	306	305	304	302	302
40	303	305	303	303	303	301	300	300	297	295	293	291	289	286	284	283	282	281	280
45	283	286	282	284	282	282	280	278	276	274	271	268	266	264	263	261	260	259	258
50	261	263	261	261	260	260	257	256	252	249	247	246	244	242	241	239	238	237	237
55	236	238	239	236	237	234	233	229	228	227	225	223	221	218	216	214	212	210	209
60	210	211	213	213	209	209	205	206	204	202	199	197	194	191	189	186	184	183	182
65	184	184	184	184	184	181	181	179	178	175	172	169	167	164	161	159	156	154	153
70	158	161	161	160	157	155	155	152	149	148	146	143	140	136	133	130	128	126	125
75	133	135	134	134	132	131	129	128	125	122	119	116	113	109	106	102	99.5	97.3	96.3
80	111	114	113	112	109	108	105	103	101	97.7	94.1	90.2	86.0	81.9	78.1	74.6	71.5	69.0	67.6
85	88.3	92.9	91.8	90.3	89.2	86.7	83.7	79.5	75.8	72.0	68.5	65.3	62.3	59.7	57.3	55.1	53.2	51.7	51.0
90	1.05	36.5	72.2	69.3	54.5	42.5	43.7	49.4	48.0	45.4	43.2	41.3	40.1	39.0	37.9	36.8	35.8	34.9	34.3
95	2.62	19.0	34.4	48.9	19.0	1.77	4.73	19.3	19.5	18.1	17.1	16.8	17.4	17.9	18.1	18.1	18.0	17.8	17.6
100	32.4	27.8	28.4	29.5	19.0	4.31	4.93	10.2	9.82	7.71	4.56	2.31	1.52	1.21	1.03	0.95	0.96	0.98	0.92
105	2.79	2.46	4.22	6.12	8.29	3.94	2.92	7.02	10.0	10.2	7.51	5.14	3.88	2.97	2.26	1.77	1.64	1.49	1.12
110	4.54	6.52	9.19	7.60	8.83	10.5	8.94	8.65	11.5	12.5	9.81	7.58	5.94	4.56	3.45	2.61	2.27	2.08	1.45
115	23.6	23.1	25.3	21.6	21.0	21.4	16.5	14.8	15.2	13.6	11.9	10.1	7.87	5.91	4.38	3.20	2.93	2.44	1.52
120	29.8	29.7	29.1	27.1	25.4	23.0	21.0	17.4	15.5	13.5	11.2	9.12	7.60	6.04	4.79	3.75	3.49	3.09	1.99
125	27.0	26.5	25.9	25.4	22.9	21.4	18.8	17.2	14.6	12.1	10.2	8.43	6.86	5.06	3.77	3.10	3.09	2.60	1.78
130	23.0	22.3	22.3	21.3	20.2	18.3	16.9	14.5	12.8	11.2	8.73	6.88	5.26	3.84	3.06	2.70	2.71	2.48	1.98
135	18.9	18.1	18.6	17.3	16.9	15.3	13.6	12.5	10.4	8.38	6.98	5.93	4.14	2.71	2.35	2.29	2.31	2.15	1.89
140	14.9	14.2	14.4	13.7	12.6	12.1	10.6	9.10	8.10	6.78	5.35	3.71	2.72	2.17	2.05	2.01	1.99	1.99	1.98
145	10.7	10.3	10.2	10.2	9.15	8.45	7.95	6.75	5.36	4.39	3.49	2.86	2.31	2.17	2.11	2.11	2.10	2.10	2.06
150	7.28	6.95	6.66	6.74	6.34	5.40	4.67	4.12	3.40	2.63	2.42	2.31	2.27	2.23	2.21	2.22	2.21	2.21	2.21
155	4.13	3.90	3.56	3.54	3.47	3.05	2.55	2.38	2.36	2.36	2.35	2.34	2.32	2.32	2.33	2.33	2.33	2.33	2.29
160	2.36	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.38	2.38	2.39	2.41	2.42	2.42	2.43	2.44	2.44
165	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.41	2.42	2.43	2.43	2.43	2.44	2.44	2.44	2.41
170	2.44	2.43	2.43	2.43	2.43	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44
175	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.43
180	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2023-09-04

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG

Humidity:65.0%
Test Distance:9.782m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: ABH14O2TW 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--2																UNIT: cd				
C (DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	
0	376	376	376	376	376	376	376	376	376	376	376	376	376	376	376	376	376	376	376	
5	373	373	373	373	373	373	373	374	374	374	374	374	374	375	375	375	375	376	375	
10	370	370	370	371	371	371	371	371	371	371	371	371	371	372	372	372	373	374	373	
15	362	362	362	363	363	364	364	365	366	367	367	366	366	366	366	367	368	369	368	
20	353	354	354	354	354	355	355	355	356	357	358	359	359	358	358	358	359	361	359	
25	339	339	340	341	342	343	344	345	345	345	345	346	348	349	348	347	349	351	349	
30	324	325	325	326	327	327	328	329	331	333	333	333	333	336	336	334	335	338	335	
35	302	303	305	306	308	310	313	313	314	314	317	319	318	318	322	320	319	323	319	
40	281	282	283	284	286	288	290	293	297	298	297	299	302	300	302	303	301	305	301	
45	259	260	261	262	264	266	268	270	271	275	280	278	280	282	280	285	280	285	280	
50	237	238	239	241	242	243	244	247	249	251	252	258	257	259	259	261	259	263	259	
55	210	211	213	215	218	220	223	223	224	226	229	229	235	233	238	235	236	240	236	
60	183	184	186	188	191	193	195	198	201	202	202	205	205	211	208	209	212	213	211	
65	154	156	158	161	163	166	169	171	173	175	178	178	179	180	184	185	186	186	186	
70	126	128	130	133	136	138	141	144	146	149	150	151	154	153	153	155	156	160	155	
75	97.5	99.5	102	105	108	112	115	118	121	123	124	126	128	129	128	130	132	134	131	
80	68.7	71.0	73.8	77.0	80.7	84.6	88.2	91.7	94.9	97.9	98.7	98.1	100	96.1	92.7	86.1	107	110	107	
85	52.0	53.4	55.1	57.0	59.2	61.5	63.8	66.5	69.5	72.3	72.6	69.2	74.8	76.7	79.2	85.8	78.8	89.0	86.1	
90	34.8	35.6	36.4	37.3	38.3	39.2	39.9	41.0	42.6	42.1	43.2	37.7	36.2	44.9	61.3	69.4	45.8	4.40	48.9	
95	17.9	18.1	18.1	18.0	17.7	17.2	16.3	15.9	15.8	12.2	13.9	7.49	1.58	19.3	41.8	37.3	13.9	18.6	20.0	
100	1.03	1.09	0.95	1.05	1.22	1.52	2.03	3.64	6.48	5.18	7.39	5.54	3.20	15.7	28.2	27.4	26.1	19.0	25.9	
105	1.25	1.53	1.87	2.34	2.96	3.76	4.81	6.50	9.04	8.88	6.21	2.64	3.33	7.69	6.12	3.41	2.04	1.92	2.06	
110	1.30	1.97	2.64	3.48	4.55	5.88	7.51	9.57	11.9	13.7	10.7	9.02	13.0	11.6	8.20	9.55	8.62	12.4	8.04	
115	1.57	2.48	3.50	4.60	5.95	7.57	9.48	11.3	13.1	15.0	15.3	16.5	20.8	22.9	23.4	28.8	28.1	29.2	26.9	
120	1.53	2.55	3.78	4.85	6.14	7.61	9.21	10.7	12.4	14.5	16.9	19.0	21.8	23.6	26.0	27.5	27.7	27.5	27.3	
125	1.71	2.48	3.31	4.00	5.02	6.30	7.79	9.71	11.8	13.6	15.6	18.1	19.6	21.9	23.2	24.5	24.8	24.3	24.5	
130	1.70	2.10	2.59	3.07	3.87	5.32	6.84	8.29	9.87	12.0	14.0	15.3	17.4	18.9	20.2	20.7	21.4	20.4	21.0	
135	1.83	2.03	2.24	2.41	2.64	3.60	4.97	6.69	8.53	9.90	11.1	13.0	14.4	15.4	16.8	16.7	17.7	6.85	9.38	
140	1.93	1.94	1.97	2.02	2.16	2.80	3.89	4.98	6.08	7.52	9.17	10.2	10.9	12.3	12.7	13.1	13.6	12.8	13.5	
145	2.04	2.05	2.07	2.10	2.16	2.29	2.60	3.22	4.40	5.54	6.29	7.11	8.31	8.97	9.02	9.69	9.85	9.21	9.75	
150	2.14	2.15	2.16	2.18	2.22	2.29	2.38	2.54	2.65	2.92	3.81	4.78	5.39	5.58	5.99	6.56	6.45	5.94	6.10	
155	2.25	2.26	2.27	2.28	2.30	2.33	2.35	2.42	2.43	2.44	2.48	2.65	2.78	2.98	3.38	3.67	3.48	3.16	3.50	
160	2.38	2.36	2.36	2.36	2.37	2.37	2.38	2.38	2.40	2.42	2.43	2.43	2.43	2.44	2.44	2.44	2.44	2.42	2.43	
165	2.38	2.38	2.38	2.38	2.38	2.39	2.39	2.39	2.40	2.40	2.41	2.41	2.41	2.42	2.43	2.43	2.44	2.42	2.41	
170	2.42	2.41	2.40	2.40	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.42	2.42	2.42	2.43	2.43	2.43	2.42	2.41	
175	2.43	2.42	2.42	2.42	2.42	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.44	2.44	2.44	2.44	2.44	2.42	2.42	
180	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.42	2.42	

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2023-09-04

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG

Humidity:65.0%
Test Distance:9.782m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: ABH14O2TW 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--3																		UNIT: cd	
<div>C (DEG) γ (DEG)</div>	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	376	376	376	376	376	376	376	376	376	376	376	376	376	376	376	376	376	376	376
5	375	375	375	374	374	374	374	374	373	373	373	373	373	373	373	373	373	373	373
10	372	372	371	371	371	371	371	371	371	370	370	370	370	370	370	370	370	370	370
15	367	366	365	366	366	366	366	366	365	364	363	362	362	361	361	361	361	361	361
20	358	357	358	358	359	357	356	355	354	354	353	353	353	352	352	352	352	352	352
25	347	347	348	348	346	344	344	344	344	343	343	342	342	342	341	341	341	341	342
30	334	336	335	332	331	332	332	331	330	330	331	331	331	331	331	331	330	331	331
35	319	321	318	317	318	317	316	317	318	319	317	315	314	312	312	311	311	311	312
40	303	301	299	301	300	299	302	302	299	297	296	295	294	293	292	291	291	291	292
45	285	279	281	280	281	285	281	278	278	277	276	274	273	272	272	271	271	272	273
50	261	258	259	260	263	258	258	258	256	255	254	254	253	253	252	251	251	252	252
55	234	237	236	239	235	236	235	233	234	235	233	231	229	228	226	225	225	226	227
60	208	209	215	210	212	210	212	212	210	208	207	205	204	202	201	200	199	200	202
65	185	187	184	185	185	187	185	184	184	183	181	178	176	174	172	171	171	172	174
70	155	156	158	161	159	160	160	158	156	154	153	150	148	146	144	142	142	143	145
75	132	132	135	134	135	133	133	131	130	128	125	123	120	118	116	114	113	115	117
80	108	109	110	110	110	109	107	105	103	100	98.0	95.1	92.1	89.4	87.0	85.2	84.8	86.5	88.9
85	88.4	89.3	88.2	87.8	86.7	84.0	81.1	78.2	75.5	73.4	71.8	70.2	68.4	66.8	65.4	64.2	63.6	64.8	66.4
90	67.6	53.9	42.4	44.1	52.6	53.5	51.0	48.8	47.0	46.0	45.8	45.5	44.8	44.2	43.5	42.9	42.8	43.6	44.5
95	46.1	30.9	7.73	4.51	19.2	22.9	21.2	19.7	18.7	18.8	19.9	20.9	21.5	21.8	21.9	21.8	21.7	22.0	22.3
100	26.0	26.2	13.3	5.23	11.4	12.8	11.3	8.04	4.23	1.90	1.22	0.98	0.90	0.84	0.81	0.79	0.74	0.82	0.82
105	2.97	5.63	6.93	2.93	3.46	7.76	10.0	8.75	5.90	3.82	2.50	1.84	1.54	1.33	1.09	1.06	1.01	1.08	1.27
110	8.59	7.97	11.0	12.3	8.62	9.21	11.5	10.3	8.02	5.70	3.60	2.63	1.97	1.71	1.38	1.26	1.33	1.46	1.53
115	27.3	22.5	22.0	20.0	15.7	13.8	13.1	11.1	8.98	6.62	4.21	3.32	2.38	2.16	1.66	1.56	1.53	1.77	1.87
120	26.9	25.2	22.8	21.1	18.2	15.7	12.9	10.5	8.70	6.76	4.53	3.60	2.67	2.23	1.94	1.70	1.93	2.11	2.11
125	24.0	22.4	21.1	18.9	17.3	14.4	12.2	10.2	8.01	5.87	3.52	3.38	2.55	2.15	1.91	1.77	1.80	2.04	2.03
130	19.8	19.3	18.3	16.8	14.6	13.0	10.8	8.77	7.35	5.55	3.46	2.87	2.33	1.92	1.89	1.75	1.88	1.97	1.96
135	13.3	15.1	15.2	14.2	12.6	10.1	7.61	7.34	6.33	3.00	3.34	2.32	2.10	1.89	1.86	1.80	1.82	1.90	1.89
140	13.0	12.7	12.3	10.5	7.88	5.52	6.86	5.93	3.74	3.55	2.70	2.12	1.96	1.86	1.83	1.83	1.83	1.83	1.83
145	9.10	7.18	6.28	4.93	6.61	6.42	5.62	3.86	3.23	2.49	2.19	2.09	2.00	1.95	1.93	1.92	1.92	1.92	1.93
150	6.21	5.99	5.68	5.54	4.97	4.03	3.12	2.71	2.44	2.23	2.16	2.10	2.06	2.04	2.02	2.02	2.01	2.01	2.02
155	3.72	3.45	3.08	2.90	2.78	2.57	2.36	2.25	2.22	2.21	2.19	2.17	2.15	2.13	2.12	2.11	2.11	2.11	2.11
160	2.44	2.42	2.38	2.34	2.32	2.30	2.29	2.28	2.27	2.25	2.24	2.23	2.22	2.21	2.21	2.21	2.20	2.20	2.20
165	2.40	2.38	2.37	2.36	2.35	2.33	2.32	2.31	2.30	2.29	2.29	2.28	2.27	2.27	2.26	2.26	2.26	2.26	2.26
170	2.40	2.40	2.39	2.38	2.37	2.36	2.35	2.35	2.34	2.33	2.33	2.32	2.32	2.32	2.32	2.31	2.31	2.31	2.31
175	2.41	2.41	2.40	2.40	2.40	2.39	2.39	2.38	2.38	2.38	2.38	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37
180	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2023-09-04

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG

Humidity:65.0%
Test Distance:9.782m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: ABH14O2TW 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--4

UNIT: cd

<div>C (DEG) γ (DEG)</div>	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	376	376	376	376	376	376	376	376	376	376	376	376	376	376	376				
5	373	373	373	373	373	374	374	374	374	374	374	375	375	375	375				
10	370	370	370	371	371	371	371	371	371	372	372	372	372	372	373				
15	362	362	363	363	364	365	365	366	366	366	366	367	367	367	367				
20	353	353	353	354	354	355	356	356	357	358	358	358	359	359	359				
25	342	343	343	343	343	343	344	345	346	346	347	348	348	349	349				
30	331	331	331	331	332	332	331	331	332	333	334	334	335	336	336				
35	313	314	315	317	318	318	318	318	317	317	319	320	319	321	321				
40	293	294	295	297	299	300	301	302	302	301	300	302	302	302	304				
45	273	274	275	276	277	279	281	282	283	283	282	281	284	282	285				
50	253	254	255	256	257	257	257	260	262	262	262	261	261	261	263				
55	229	231	233	234	236	236	237	237	236	239	239	240	235	238	238				
60	203	205	207	209	211	212	213	214	215	212	214	212	214	212	211				
65	176	178	180	182	184	186	188	189	188	189	187	188	186	184	184				
70	148	150	153	155	158	160	160	161	162	164	162	162	163	162	160				
75	119	122	125	128	131	132	134	136	138	138	138	138	138	136	135				
80	91.6	94.6	98.0	101	104	107	109	112	113	114	115	115	116	115	114				
85	68.1	69.9	72.1	74.4	76.5	78.8	81.6	84.9	88.1	91.3	92.8	94.0	93.5	93.7	93.8				
90	45.3	46.1	46.9	47.6	48.1	49.2	50.9	53.0	54.8	49.9	45.1	51.3	64.8	73.8	40.1				
95	22.2	21.9	21.4	20.5	19.4	19.1	19.6	20.5	21.2	9.67	1.36	11.4	41.4	42.9	25.0				
100	0.81	0.88	1.00	1.16	1.87	4.06	7.15	9.42	10.5	7.26	3.38	15.9	27.4	26.8	27.8				
105	1.38	1.81	2.22	2.62	3.80	6.32	9.11	9.17	6.71	2.82	3.27	7.03	5.47	3.53	2.68				
110	1.97	2.71	3.41	3.91	5.18	7.72	10.8	10.0	7.97	8.84	10.6	9.18	7.70	8.64	6.22				
115	2.34	3.36	4.49	5.16	6.71	9.25	11.6	13.5	13.8	16.2	21.5	21.2	21.1	23.7	22.5				
120	2.73	3.71	4.85	5.62	6.80	9.19	11.9	14.1	16.1	20.1	22.6	25.1	26.5	28.2	29.2				
125	2.27	3.04	4.43	5.77	7.25	9.18	11.3	13.7	16.2	18.0	20.8	22.5	24.8	25.4	26.2				
130	2.10	2.55	3.67	5.09	6.67	8.91	11.4	12.8	14.2	16.4	18.1	20.1	21.3	22.1	22.2				
135	1.89	2.03	2.87	4.54	6.17	7.59	9.03	10.9	12.7	13.8	15.5	17.1	17.4	18.7	18.1				
140	1.84	1.87	2.15	3.03	4.18	5.72	7.41	8.69	9.65	11.1	12.7	13.1	14.0	14.5	14.3				
145	1.94	1.94	2.00	2.36	3.10	3.94	4.85	5.94	7.35	8.45	8.90	9.55	10.5	10.3	10.3				
150	2.03	2.04	2.06	2.10	2.21	2.42	2.95	3.96	4.66	5.15	5.83	6.66	6.97	6.80	7.03				
155	2.12	2.13	2.15	2.16	2.17	2.19	2.22	2.29	2.41	2.80	3.35	3.72	3.72	3.67	3.93				
160	2.21	2.21	2.22	2.23	2.24	2.24	2.25	2.26	2.27	2.29	2.31	2.34	2.35	2.35	2.36				
165	2.26	2.27	2.27	2.28	2.28	2.29	2.30	2.31	2.32	2.32	2.33	2.35	2.36	2.37	2.38				
170	2.32	2.32	2.32	2.33	2.33	2.34	2.34	2.35	2.36	2.36	2.37	2.38	2.39	2.39	2.40				
175	2.37	2.37	2.37	2.37	2.38	2.38	2.38	2.39	2.39	2.39	2.40	2.40	2.41	2.41	2.42				
180	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42				

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2023-09-04

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG

Humidity:65.0%
Test Distance:9.782m [K=1.0000]
Remarks: