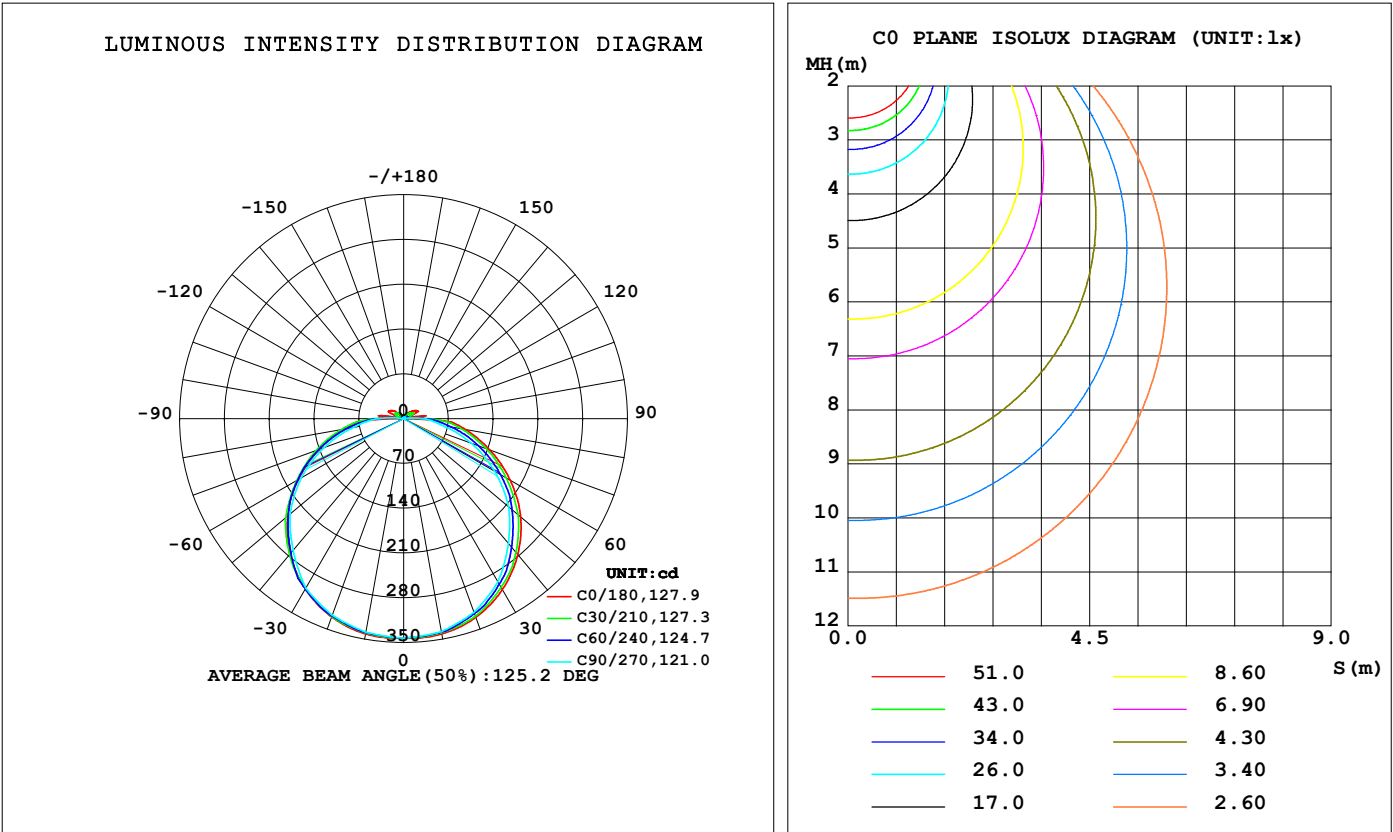


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: ABH14O2TB 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 90.51 lm/W
MODEL	ABH14O2TB 3000K	Imax (cd)	343.7	S/MH(C0/180)	1.33	
NOMINAL POWER(W)	13.7	LOR(%)	100.0	S/MH(C90/270)	1.31	
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	1240.0	η UP,DN(C0-180)	2.3,46.4	
NOMINAL FLUX(lm)	1240.04	CIE CLASS	DIRECT	η UP,DN(C180-360)	2.3,48.9	
LAMPS INSIDE	1	η up (%)	4.6	CIBSE SHR NOM	1.50	
TEST VOLTAGE(V)	230	η down (%)	95.4	CIBSE SHR MAX	1.50	



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2023-09-05

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	341.8	339.2	338.2	339.2	341.7	339.8	339.0	339.7	0- 10	32.57	32.57	2.63,2.63
20	330.4	325.7	322.2	325.5	329.8	328.1	327.0	328.2	10- 20	94.50	127.1	10.2,10.2
30	308.6	302.5	295.0	301.8	307.5	307.8	306.0	308.4	20- 30	146.2	273.2	22,22
40	277.6	269.5	254.6	268.7	276.1	278.9	268.9	279.5	30- 40	180.9	454.1	36.6,36.6
50	238.7	225.8	214.3	224.4	236.5	236.6	231.8	238.1	40- 50	194.4	648.5	52.3,52.3
60	192.3	181.9	164.2	179.8	190.0	193.9	184.8	196.3	50- 60	187.0	835.5	67.4,67.4
70	143.3	131.9	112.4	130.1	140.5	144.8	132.0	146.8	60- 70	159.0	994.5	80.2,80.2
80	98.00	85.11	60.49	83.53	95.93	95.84	79.19	98.22	70- 80	117.5	1112	89.7,89.7
90	2.082	39.33	30.62	37.52	2.034	44.14	39.93	44.83	80- 90	70.91	1183	95.4,95.4
100	22.71	7.181	0.7499	5.679	21.74	6.591	0.6733	5.726	90-100	22.04	1205	97.2,97.2
110	4.467	10.69	1.153	10.05	9.819	9.176	1.205	9.011	100-110	4.958	1210	97.6,97.6
120	24.18	11.03	1.557	10.53	24.98	9.280	1.737	9.724	110-120	9.907	1220	98.4,98.4
130	18.80	9.077	1.631	8.585	18.26	7.844	1.674	9.339	120-130	9.561	1229	99.1,99.1
140	12.08	5.332	1.706	5.213	11.66	5.539	1.610	5.914	130-140	5.875	1235	99.6,99.6
150	5.576	2.141	1.897	2.177	5.551	2.450	1.794	2.398	140-150	2.873	1238	99.8,99.8
160	1.971	1.993	2.089	2.088	2.207	2.052	1.978	1.975	150-160	1.121	1239	99.9,99.9
170	2.041	2.040	2.086	2.071	2.214	2.135	2.082	2.091	160-170	0.5835	1240	100,100
180	2.082	2.082	2.082	2.082	2.187	2.187	2.187	2.187	170-180	0.2015	1240	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 550.91 lm

%lum = 44.4%
%lamp = 44.4%

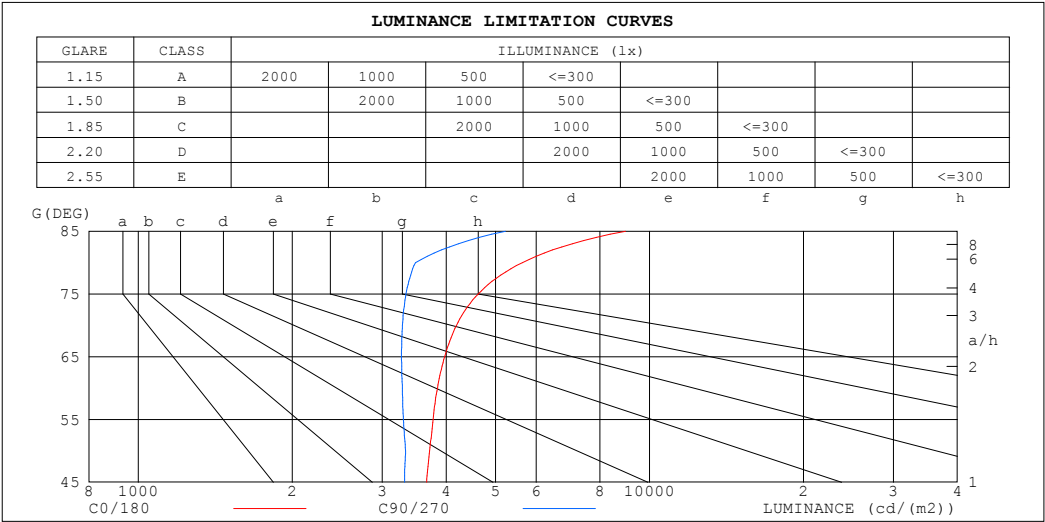
Conical surface Flux(120deg): 835.51 lm

%lum = 67.4%
%lamp = 67.4%

H(β) Range:-90 - 90DEG H(β) Interval: 1.0DEG Test Speed: HIGH Temperature:25.3°C Operators: Test Date:2023-09-05	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: ABH14O2TB 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	8978	5227
80	5644	3484
75	4622	3339
70	4190	3285
65	3974	3273
60	3847	3285
55	3771	3300
50	3713	3334
45	3663	3316

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2023-09-05

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: ABH14O2TB 3000K	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	.366	.208	.066	.358	.204	.065	.341	.196	.063	.327	.188	.060	.313	.181	.058	
2.0	.326	.179	.055	.318	.175	.054	.304	.169	.052	.290	.163	.051	.278	.157	.050	
3.0	.293	.156	.047	.286	.153	.046	.273	.148	.045	.261	.143	.044	.250	.139	.043	
4.0	.266	.138	.041	.260	.136	.040	.248	.132	.039	.237	.128	.038	.228	.124	.038	
5.0	.243	.124	.036	.237	.122	.035	.227	.118	.035	.217	.115	.034	.208	.111	.033	
6.0	.223	.112	.032	.218	.110	.032	.209	.107	.031	.200	.104	.031	.192	.101	.030	
7.0	.206	.102	.029	.202	.101	.029	.194	.098	.028	.186	.095	.028	.178	.093	.027	
8.0	.192	.094	.026	.188	.092	.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	.226	.226	.226	.193	.193	.193	.132	.132	.132	.076	.076	.076	.024	.024	.024	
1.0	.220	.191	.165	.188	.164	.142	.129	.113	.098	.074	.065	.057	.024	.021	.019	
2.0	.212	.167	.130	.182	.144	.112	.125	.100	.078	.072	.058	.046	.023	.019	.015	
3.0	.205	.150	.107	.176	.130	.093	.121	.090	.065	.070	.053	.038	.022	.017	.013	
4.0	.197	.137	.092	.169	.119	.080	.116	.083	.056	.067	.048	.033	.022	.016	.011	
5.0	.189	.127	.081	.162	.110	.071	.112	.077	.050	.065	.045	.030	.021	.015	.010	
6.0	.182	.119	.074	.156	.103	.064	.108	.072	.046	.063	.042	.027	.020	.014	.009	
7.0	.175	.112	.068	.150	.097	.060	.104	.068	.042	.060	.040	.025	.019	.013	.008	
8.0	.168	.106	.064	.144	.092	.056	.100	.065	.040	.058	.038	.024	.019	.013	.008	
9.0	.161	.102	.061	.139	.088	.053	.096	.062	.038	.056	.037	.023	.018	.012	.007	
10.0	.156	.097	.058	.134	.084	.051	.093	.059	.036	.054	.035	.022	.018	.012	.007	

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:
 Test Date:2023-09-05

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: ABH14O2TB 3000K	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	18.6	15.8	17.4	16.2	17.7	18.0
3H	18.5	20.0	18.9	20.3	20.6	17.6	19.0	18.0	19.3	19.7
4H	19.6	20.9	19.9	21.3	21.6	18.4	19.7	18.8	20.1	20.4
6H	20.6	21.9	21.0	22.3	22.7	19.1	20.4	19.5	20.7	21.1
8H	21.2	22.5	21.6	22.8	23.2	19.4	20.7	19.8	21.0	21.4
12H	21.9	23.1	22.3	23.4	23.9	19.8	21.0	20.2	21.4	21.8
4H 2H	17.1	18.5	17.5	18.8	19.2	16.6	18.0	17.0	18.3	18.7
3H	19.4	20.6	19.8	21.0	21.4	18.6	19.8	19.0	20.2	20.6
4H	20.6	21.7	21.0	22.1	22.5	19.6	20.7	20.0	21.1	21.5
6H	21.9	22.9	22.3	23.3	23.8	20.4	21.4	20.9	21.9	22.3
8H	22.5	23.5	23.0	23.9	24.4	20.8	21.8	21.3	22.2	22.7
12H	23.3	24.2	23.8	24.7	25.2	21.3	22.2	21.8	22.6	23.1
8H 4H	21.0	21.9	21.5	22.4	22.9	20.1	21.0	20.6	21.5	22.0
6H	22.5	23.3	23.0	23.8	24.3	21.2	22.0	21.7	22.5	23.0
8H	23.4	24.1	23.9	24.6	25.1	21.8	22.5	22.3	23.0	23.6
12H	24.4	25.0	24.9	25.5	26.1	22.5	23.1	23.0	23.6	24.2
12H 4H	21.0	21.9	21.5	22.4	22.9	20.2	21.1	20.7	21.6	22.1
6H	22.7	23.4	23.2	23.9	24.4	21.5	22.2	22.0	22.7	23.2
8H	23.6	24.2	24.2	24.8	25.3	22.2	22.8	22.7	23.3	23.9
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117, 1240 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 0.7$)
Area: 0.1 m2

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:2023-09-05

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: ABH14O2TB 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

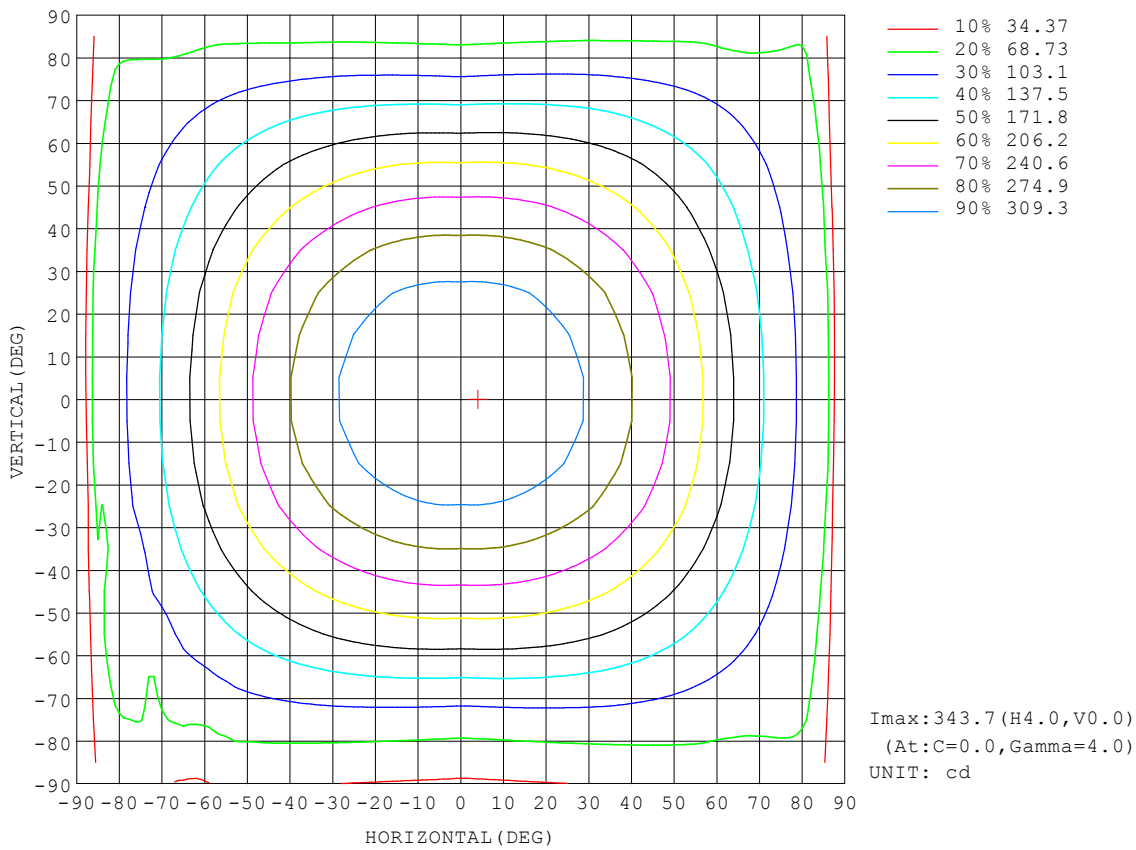
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	53	41	34	52	40	33	51	40	33	26
0.80	63	50	42	61	50	42	59	49	41	34
1.00	71	58	50	69	58	50	67	59	49	42
1.25	78	66	58	76	65	58	73	63	56	48
1.50	83	72	64	81	70	63	77	68	62	53
2.00	90	80	72	88	79	72	83	76	70	60
2.50	94	85	78	92	83	77	87	80	75	65
3.00	98	90	83	95	88	82	90	84	79	69
4.00	102	95	90	99	93	88	94	89	85	74
5.00	105	99	94	102	97	92	97	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:2023-09-05

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

ISOCANDELA DIAGRAM

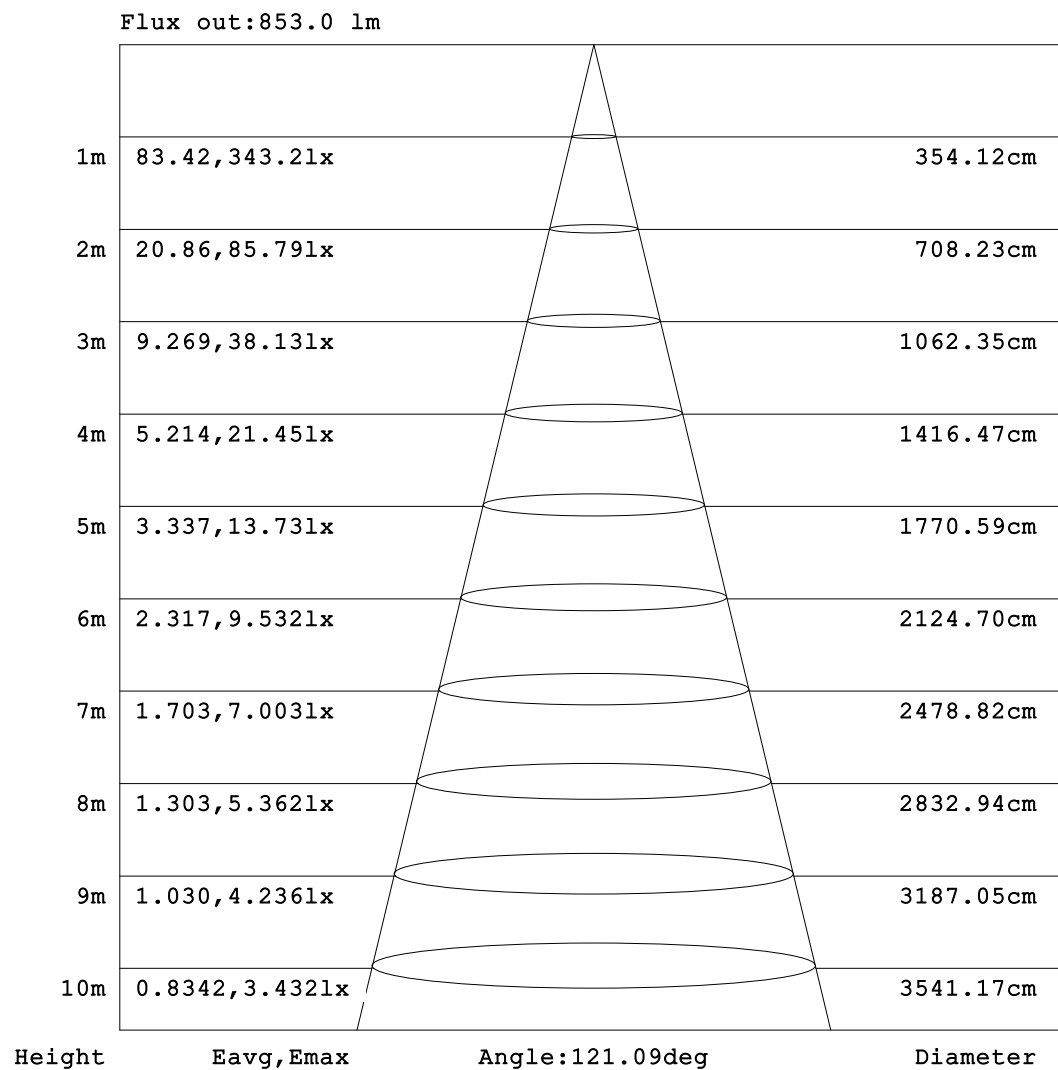
NAME: ABH14O2TB 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



H(β) Range:-90 - 90DEG	V(B) Range:-180 - 180DEG
H(β) Interval: 1.0DEG	V(B) Interval: 5.0DEG
Test Speed: HIGH	
Temperature:25.3°C	Humidity:65.0%
Operators:	Test Distance:9.782m [K=1.0000]
Test Date:2023-09-05	Remarks:

AAI Figure

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

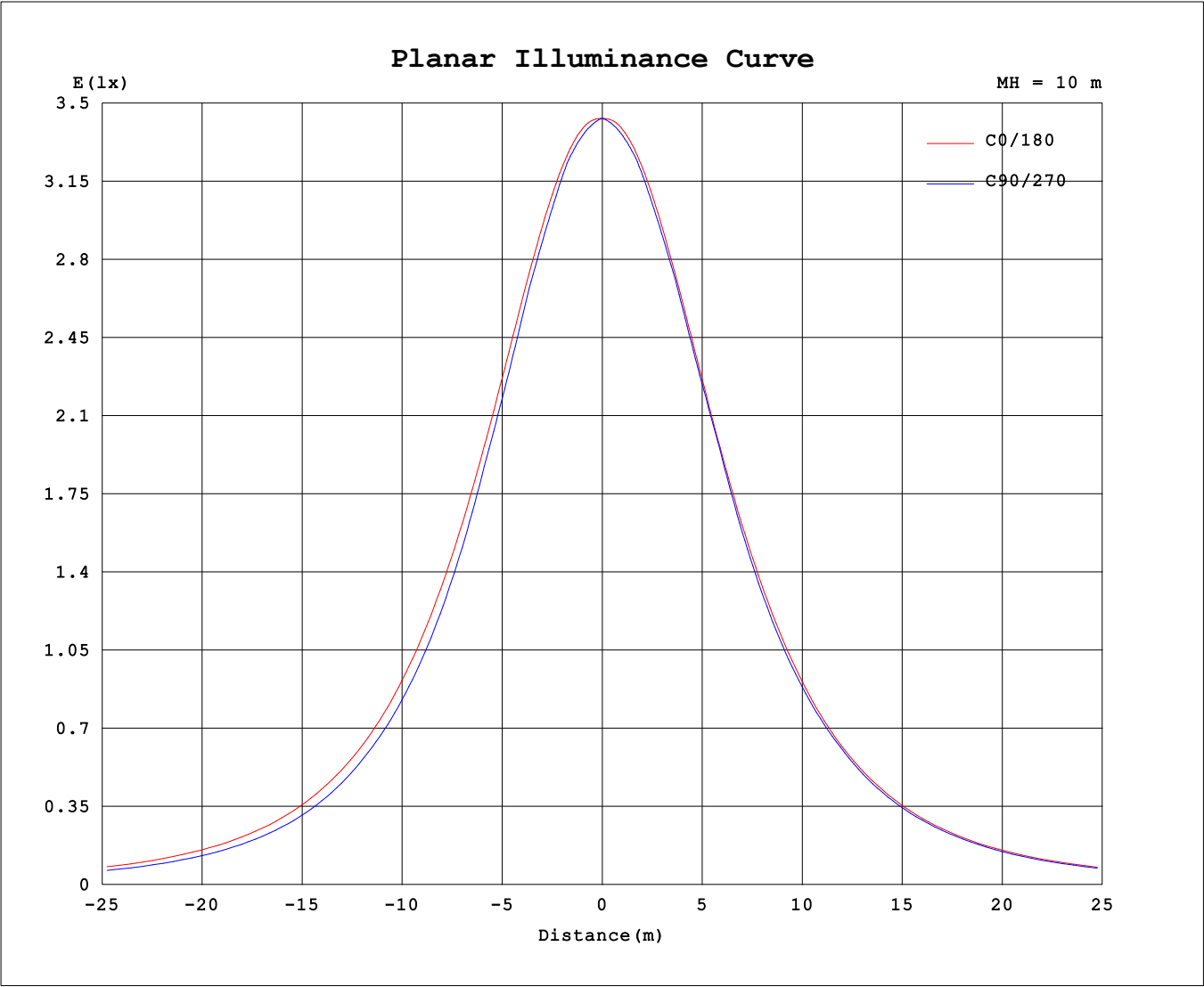


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:2023-09-05

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:2023-09-05

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: ABH14O2TB 3000K	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	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343
5	344	343	343	343	343	342	342	342	342	342	342	341	341	341	341	341	341	341	341
10	342	341	341	341	340	340	340	339	339	339	339	339	339	339	339	339	338	338	338
15	337	337	336	336	335	335	335	335	335	335	334	333	333	332	332	331	331	330	330
20	330	329	329	328	328	328	328	327	326	326	325	325	324	324	323	323	323	322	322
25	321	320	319	319	319	318	317	317	316	316	315	314	313	312	311	310	310	309	309
30	309	307	307	307	306	305	305	304	304	303	301	300	299	298	297	297	296	295	295
35	294	293	292	293	291	291	291	289	288	287	286	285	283	281	279	278	276	275	275
40	278	276	276	275	275	275	273	272	271	269	267	264	262	261	259	258	256	255	255
45	259	258	258	257	257	255	254	253	250	248	246	244	242	240	239	237	236	235	234
50	239	237	237	236	236	234	233	230	228	226	224	223	221	220	219	217	216	215	214
55	216	215	215	215	213	212	209	207	205	204	203	202	200	197	195	193	192	190	189
60	192	191	191	190	190	187	185	184	183	182	179	177	175	173	170	169	167	165	164
65	168	167	167	166	164	162	162	161	159	157	154	152	150	147	145	143	141	139	138
70	143	142	142	141	139	139	137	135	134	132	130	127	125	122	120	117	115	113	112
75	120	119	118	117	117	115	113	112	110	108	106	103	100	97.2	94.4	91.8	89.5	87.6	86.4
80	98.0	97.3	96.3	95.7	94.6	93.5	91.9	90.0	87.7	85.1	82.2	79.0	75.6	72.2	69.1	66.2	63.6	61.7	60.5
85	78.2	77.8	77.7	77.0	75.7	73.8	71.3	68.0	65.1	62.3	59.6	57.0	54.7	52.7	50.8	49.2	47.6	46.4	45.6
90	2.08	34.6	61.4	57.0	43.9	35.8	37.9	42.5	41.2	39.3	37.5	36.0	35.0	34.2	33.5	32.7	31.9	31.2	30.6
95	3.29	9.99	26.8	39.3	16.3	1.37	5.47	16.8	17.1	16.2	15.3	14.8	15.3	15.8	16.1	16.2	16.1	15.9	15.7
100	22.7	23.3	24.0	25.1	15.6	3.69	4.88	8.81	8.92	7.18	4.32	2.10	1.32	1.05	0.90	0.83	0.81	0.79	0.75
105	1.84	2.00	3.75	5.61	6.68	2.79	2.55	5.48	8.43	8.91	6.44	4.38	3.27	2.53	1.95	1.53	1.37	1.26	0.95
110	4.47	4.35	6.04	5.30	6.80	8.78	7.22	7.10	9.83	10.7	8.48	6.50	5.03	3.88	2.91	2.19	1.94	1.71	1.15
115	19.8	19.2	21.2	17.8	16.6	17.6	13.5	12.3	12.6	11.5	9.96	8.37	6.56	5.02	3.75	2.78	2.50	2.15	1.35
120	24.2	24.2	23.9	22.3	20.9	19.0	17.2	14.6	12.9	11.0	9.43	7.84	6.45	5.12	4.01	3.13	3.00	2.55	1.56
125	22.2	22.2	21.8	20.9	19.2	17.6	15.9	14.0	12.0	10.2	8.59	6.91	5.55	4.27	3.23	2.66	2.67	2.31	1.59
130	18.8	18.8	18.4	17.6	16.5	15.3	13.7	12.1	10.6	9.08	7.30	5.80	4.44	3.32	2.56	2.30	2.34	2.09	1.63
135	15.2	15.2	15.0	14.5	13.8	12.7	11.4	10.0	8.67	7.23	5.75	4.53	3.31	2.18	2.01	1.98	2.02	1.89	1.67
140	12.1	12.1	11.9	11.4	10.7	9.82	8.75	7.69	6.55	5.33	4.24	3.14	2.39	1.81	1.75	1.73	1.74	1.74	1.71
145	8.57	8.62	8.45	8.09	7.58	6.96	6.20	5.32	4.43	3.52	2.69	2.34	1.89	1.83	1.80	1.81	1.81	1.82	1.80
150	5.58	5.61	5.50	5.25	4.88	4.40	3.80	3.11	2.40	2.14	2.08	1.94	1.91	1.88	1.87	1.88	1.89	1.91	1.90
155	2.98	3.00	2.93	2.75	2.52	2.24	2.04	1.99	1.98	1.98	1.99	1.97	1.96	1.95	1.95	1.95	1.98	1.99	1.99
160	1.97	1.97	1.98	1.98	1.98	1.98	1.98	1.99	1.99	1.99	1.99	1.99	2.00	2.01	2.02	2.03	2.07	2.08	2.09
165	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.03	2.03	2.04	2.07	2.07	2.08	2.09
170	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.05	2.05	2.07	2.07	2.07	2.08	2.09	2.09
175	2.08	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.08	2.08	2.08	2.08	2.08	2.08	2.08
180	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2023-09-05

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: ABH14O2TB 3000K	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	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343	
5	341	341	341	341	341	341	341	342	342	342	342	342	343	343	343	343	343	344	343	
10	338	338	339	339	339	339	339	339	339	339	340	340	340	340	340	341	341	342	341	
15	330	331	331	332	332	333	333	334	335	335	335	335	335	335	336	336	336	337	337	
20	322	323	323	323	324	324	324	325	326	326	327	328	328	328	328	328	329	330	329	
25	309	310	310	311	312	313	314	315	315	316	316	317	318	319	318	318	319	320	319	
30	295	296	297	297	298	299	300	301	302	303	304	304	305	306	306	306	306	308	307	
35	275	276	278	279	281	283	285	285	286	287	288	290	290	290	292	292	292	293	292	
40	255	256	258	259	260	262	264	266	269	270	271	272	273	273	274	275	275	276	275	
45	235	236	237	238	240	241	243	245	247	249	252	252	254	255	255	257	256	257	256	
50	215	216	217	218	219	220	221	223	224	226	229	232	233	234	235	236	236	237	236	
55	190	192	193	195	197	199	200	201	202	204	205	207	210	211	213	213	214	214	214	
60	165	167	168	170	172	173	176	178	180	181	182	183	185	188	188	189	190	190	190	
65	139	141	143	144	146	149	151	153	155	157	159	159	160	161	164	164	165	165	166	
70	114	115	117	119	121	124	126	128	130	132	133	135	136	137	138	139	140	141	141	
75	87.7	89.4	91.4	93.7	96.3	99.0	102	104	106	108	110	111	113	114	114	116	117	117	118	
80	61.8	63.6	65.8	68.4	71.4	74.6	77.7	80.7	83.5	86.1	87.2	85.6	88.4	85.5	82.4	78.2	95.4	95.9	97.1	
85	46.5	47.6	48.9	50.4	52.1	54.0	55.9	58.1	60.7	63.1	63.2	60.0	65.7	67.3	69.2	75.3	71.4	76.4	77.7	
90	31.3	31.9	32.5	33.2	33.9	34.6	35.1	36.1	37.5	37.0	37.9	32.6	32.0	40.2	54.8	60.5	36.7	2.03	40.0	
95	16.0	16.1	16.1	15.9	15.6	15.1	14.2	14.0	14.2	10.8	12.9	6.28	1.28	15.1	38.0	33.7	16.5	9.00	23.3	
100	0.88	0.90	0.83	0.91	1.05	1.29	1.74	3.23	5.68	4.71	6.61	5.00	2.49	14.1	24.3	23.1	22.5	21.7	23.1	
105	1.02	1.36	1.58	1.99	2.52	3.19	4.09	5.67	7.87	7.80	5.68	2.32	2.93	6.42	5.10	2.31	1.56	1.46	1.52	
110	1.15	1.78	2.27	2.98	3.87	4.93	6.24	8.00	10.0	11.5	8.98	7.89	11.0	9.98	7.97	9.15	7.87	9.82	8.16	
115	1.27	2.14	2.91	3.86	5.06	6.44	8.06	9.54	10.9	12.5	13.0	13.9	17.6	19.9	19.6	24.6	23.7	26.5	24.1	
120	1.36	2.38	3.28	4.16	5.20	6.34	7.57	9.01	10.5	12.1	14.1	16.2	18.3	20.1	22.0	23.2	23.7	25.0	24.5	
125	1.41	2.12	2.76	3.37	4.37	5.44	6.71	8.15	9.76	11.4	13.1	14.8	16.5	18.2	19.8	20.6	21.0	22.0	21.7	
130	1.48	1.91	2.33	2.70	3.41	4.37	5.61	6.99	8.58	10.1	11.5	13.0	14.4	15.7	16.7	17.4	17.6	18.3	18.0	
135	1.57	1.75	2.00	2.12	2.28	3.33	4.33	5.60	6.94	8.36	9.64	10.9	12.2	13.3	13.9	14.2	14.4	5.33	8.33	
140	1.66	1.68	1.80	1.85	1.93	2.47	3.11	4.10	5.21	6.37	7.56	8.62	9.52	10.3	10.8	11.2	11.4	11.7	11.7	
145	1.75	1.76	1.82	1.88	1.94	2.01	2.44	2.68	3.46	4.35	5.24	6.14	6.93	7.56	7.99	8.24	8.33	8.57	8.53	
150	1.84	1.85	1.86	1.92	1.96	2.01	2.05	2.18	2.18	2.42	3.11	3.74	4.30	4.76	5.12	5.34	5.43	5.55	5.64	
155	1.92	1.93	1.94	1.96	1.98	2.02	2.07	2.08	2.09	2.09	2.07	2.11	2.29	2.51	2.72	2.86	2.91	2.99	3.09	
160	2.03	2.01	2.02	2.02	2.02	2.02	2.04	2.07	2.09	2.09	2.09	2.10	2.10	2.10	2.10	2.10	2.10	2.21	2.21	
165	2.06	2.03	2.04	2.04	2.04	2.04	2.05	2.05	2.06	2.07	2.08	2.09	2.10	2.10	2.10	2.10	2.10	2.21	2.19	
170	2.07	2.06	2.06	2.06	2.06	2.06	2.07	2.07	2.07	2.07	2.08	2.08	2.08	2.09	2.09	2.10	2.10	2.21	2.20	
175	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.09	2.09	2.09	2.09	2.10	2.10	2.10	2.10	2.22	2.22	
180	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.19	2.19	

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2023-09-05

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: ABH14O2TB 3000K	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	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343
5	343	343	343	343	342	342	342	342	342	342	342	341	341	341	341	341	341	341	341
10	341	341	340	340	340	340	340	340	340	340	340	339	339	339	339	339	339	339	339
15	336	336	336	336	336	336	336	336	335	335	335	334	334	334	333	333	333	333	333
20	329	328	328	329	329	329	328	328	328	328	328	328	328	328	328	327	327	327	328
25	319	319	319	319	319	319	319	319	320	320	319	319	318	318	317	317	317	317	317
30	306	307	307	307	307	308	308	308	308	308	308	307	307	307	307	306	306	306	307
35	292	293	292	293	294	294	294	294	295	295	294	292	291	290	289	288	287	288	289
40	276	276	276	277	277	278	279	279	277	276	274	273	272	271	270	270	269	270	270
45	257	257	258	259	260	261	259	258	257	256	255	254	253	253	252	251	250	251	252
50	237	237	238	239	241	239	237	237	236	236	235	235	234	234	233	232	232	233	233
55	215	216	217	218	217	216	215	215	216	216	215	214	213	211	210	209	208	209	211
60	191	192	195	193	193	193	194	194	193	192	191	190	189	188	187	186	185	186	187
65	167	169	168	168	169	170	170	169	169	168	167	165	164	162	161	159	158	160	161
70	143	143	144	145	146	146	146	145	144	143	141	139	138	136	134	133	132	133	135
75	119	120	121	122	122	122	121	120	119	117	116	114	112	110	108	107	106	107	109
80	97.8	98.9	99.5	99.6	99.4	98.7	97.5	95.8	94.1	92.2	90.3	88.1	85.8	83.7	81.8	80.3	79.2	80.6	82.5
85	79.1	79.6	79.5	78.9	77.9	75.6	73.2	70.9	68.8	67.2	66.1	64.9	63.5	62.4	61.3	60.3	59.6	60.5	61.8
90	61.8	50.7	39.2	38.5	45.3	47.2	45.7	44.1	42.8	42.2	42.2	42.1	41.7	41.4	40.9	40.4	39.9	40.5	41.2
95	43.1	30.8	6.61	2.32	13.5	18.7	18.1	17.2	16.7	17.1	18.4	19.3	19.9	20.3	20.5	20.5	20.3	20.5	20.7
100	22.6	23.5	12.4	3.57	8.57	10.0	9.12	6.59	3.53	1.70	1.15	0.91	0.82	0.78	0.74	0.71	0.67	0.68	0.73
105	1.89	4.82	5.98	2.77	2.89	6.78	8.90	7.83	5.29	3.45	2.23	1.64	1.44	1.23	1.01	0.97	0.94	1.00	1.05
110	8.97	8.23	9.95	10.9	7.83	8.13	10.2	9.18	6.92	4.94	3.03	2.32	1.89	1.65	1.27	1.22	1.20	1.31	1.37
115	24.4	19.7	20.0	17.6	13.6	12.2	11.5	9.72	7.96	5.98	3.60	2.97	1.94	2.03	1.54	1.46	1.47	1.63	1.67
120	23.7	22.1	20.2	18.3	16.0	13.5	11.3	9.28	7.57	5.68	3.66	3.32	2.48	2.26	1.79	1.68	1.74	1.94	1.92
125	21.0	20.0	18.2	16.5	14.6	12.5	10.4	8.58	7.05	5.35	3.06	3.17	2.45	1.98	1.76	1.65	1.71	1.86	1.84
130	17.3	16.3	15.7	14.3	12.7	11.0	9.23	7.84	6.64	4.40	3.43	2.61	2.16	1.79	1.73	1.63	1.67	1.77	1.76
135	11.5	13.6	13.5	12.3	10.9	9.25	6.22	6.91	5.76	2.60	3.10	2.05	1.87	1.69	1.68	1.62	1.64	1.69	1.67
140	11.6	11.3	10.8	9.85	6.12	4.92	6.61	5.54	3.11	3.22	2.34	1.86	1.73	1.67	1.65	1.63	1.61	1.61	1.60
145	7.95	6.49	4.65	4.96	6.49	5.80	4.70	3.33	2.97	2.37	1.95	1.85	1.79	1.75	1.73	1.72	1.70	1.70	1.70
150	5.61	5.48	5.17	4.75	4.28	3.71	3.04	2.45	2.19	1.97	1.92	1.88	1.85	1.83	1.81	1.80	1.79	1.79	1.79
155	3.10	3.01	2.87	2.68	2.45	2.29	2.17	2.04	2.00	1.98	1.96	1.94	1.93	1.92	1.90	1.89	1.89	1.88	1.89
160	2.22	2.21	2.19	2.15	2.11	2.08	2.07	2.05	2.04	2.03	2.02	2.01	2.01	1.99	1.99	1.98	1.98	1.97	1.97
165	2.18	2.16	2.15	2.14	2.13	2.12	2.11	2.10	2.09	2.08	2.07	2.07	2.05	2.05	2.04	2.03	2.03	2.03	2.03
170	2.19	2.19	2.18	2.17	2.16	2.15	2.14	2.14	2.13	2.13	2.12	2.11	2.10	2.10	2.09	2.09	2.08	2.08	2.08
175	2.21	2.20	2.20	2.19	2.19	2.18	2.18	2.17	2.17	2.16	2.16	2.16	2.15	2.15	2.14	2.14	2.13	2.13	2.14
180	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2023-09-05

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: ABH14O2TB 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--4																UNIT: cd			
C (DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343				
5	341	341	342	342	342	342	342	342	342	342	343	343	343	343	343				
10	339	339	339	339	340	340	340	340	340	340	340	340	341	341	341				
15	334	334	334	334	335	335	336	336	336	336	336	336	336	336	337				
20	328	328	328	328	328	328	328	328	329	329	329	329	329	329	330				
25	318	318	319	319	320	320	320	319	319	319	319	320	319	319	320				
30	307	307	307	308	308	308	308	309	308	308	307	308	307	307	308				
35	290	291	292	294	295	295	295	295	295	295	294	293	293	293	293				
40	271	272	274	275	276	278	280	279	279	279	279	277	277	277	276				
45	253	254	255	256	257	258	259	260	262	261	260	260	259	258	258				
50	234	235	236	236	237	238	238	239	240	242	241	240	239	238	238				
55	212	213	215	216	217	217	217	217	218	218	220	218	218	216	215				
60	188	190	191	193	194	195	196	196	195	195	194	194	193	193	192				
65	163	165	167	168	170	171	172	172	173	172	170	169	169	169	168				
70	137	139	141	143	144	146	147	148	148	148	148	146	145	144	143				
75	111	113	115	117	119	121	122	123	124	125	124	124	122	121	120				
80	84.6	87.0	89.6	92.3	94.5	96.5	98.2	99.8	101	102	102	102	101	99.8	98.7				
85	63.1	64.5	66.1	67.8	69.2	70.9	72.8	75.2	77.7	80.4	81.5	82.0	81.8	81.2	79.8				
90	41.8	42.3	42.9	43.2	43.3	43.9	44.8	46.0	47.1	43.3	39.6	44.3	55.9	64.4	38.3				
95	20.5	20.2	19.6	18.7	17.5	17.0	16.8	16.7	16.5	7.00	1.25	12.2	35.7	36.3	15.6				
100	0.73	0.79	0.88	1.05	1.55	3.31	5.73	7.28	7.99	5.34	2.77	13.7	24.5	24.5	25.2				
105	1.19	1.56	1.84	2.22	3.13	5.09	7.36	7.11	5.00	2.40	2.56	5.81	5.19	3.03	1.83				
110	1.61	2.26	2.79	3.28	4.44	6.64	9.01	8.48	6.62	7.28	8.96	7.23	5.61	6.15	4.66				
115	1.99	2.84	3.69	4.21	5.42	7.64	9.83	11.2	11.6	13.6	17.8	17.0	18.1	20.8	20.0				
120	2.21	3.03	3.99	4.62	5.80	7.72	9.72	11.9	13.8	16.8	19.2	21.0	22.4	24.2	25.0				
125	1.98	2.52	3.58	4.57	5.93	7.67	9.56	11.4	13.5	15.6	17.7	19.5	21.3	22.3	23.0				
130	1.80	2.09	2.98	4.16	5.62	7.45	9.34	10.6	12.1	13.8	15.4	17.3	18.5	19.1	19.6				
135	1.67	1.77	2.24	3.42	4.78	6.30	7.80	9.17	10.5	11.9	13.3	14.5	15.2	15.7	16.0				
140	1.61	1.65	1.78	2.50	3.45	4.66	5.91	7.17	8.38	9.55	10.7	11.6	12.1	12.6	12.8				
145	1.70	1.71	1.75	1.92	2.43	3.08	4.06	5.03	5.96	6.86	7.66	8.30	8.74	9.02	9.11				
150	1.79	1.78	1.80	1.84	1.93	2.13	2.40	3.01	3.74	4.36	4.90	5.35	5.68	5.88	5.94				
155	1.88	1.88	1.88	1.89	1.91	1.93	1.95	2.03	2.16	2.36	2.62	2.87	3.07	3.19	3.20				
160	1.98	1.97	1.96	1.95	1.96	1.97	1.97	1.99	2.00	2.01	2.03	2.05	2.07	2.07	2.07				
165	2.03	2.03	2.03	2.03	2.02	2.02	2.03	2.03	2.04	2.05	2.05	2.06	2.07	2.08	2.09				
170	2.08	2.08	2.08	2.09	2.09	2.09	2.09	2.09	2.10	2.10	2.10	2.11	2.12	2.13	2.14				
175	2.13	2.13	2.13	2.14	2.14	2.14	2.15	2.15	2.15	2.15	2.15	2.16	2.16	2.16	2.17				
180	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19				

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2023-09-05

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

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