

Report No.:

Test Time: 2018-09-28 13:39

Luminaire Property

Luminaire Manufacturer:

Number of Lamps: 1

Luminous Length (mm): 77 mm

Luminous Height (mm): 0 mm

Current: 0.056 A

Power Factor: 0.980

Lumens per Lamp: 815.4 lm

Luminous Width (mm): 77 mm

Voltage: 230.3 V

Power: 12.72 W

Photometric Results

CIE Class: Direct

Measurement Flux: 815.4 lm

Downward Ratio: 100.00%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 148.3, 148.6, 148.4, 148.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 98.4, 98.4, 98.5, 98.5

Luminaire Efficacy Rating (LER): 64.15

Max. Intensity: 347.65 cd

S/MH(C0/C180): 1.18

Total Rated Lamp Lumens: 815.4 lm

Efficiency: 100.00%

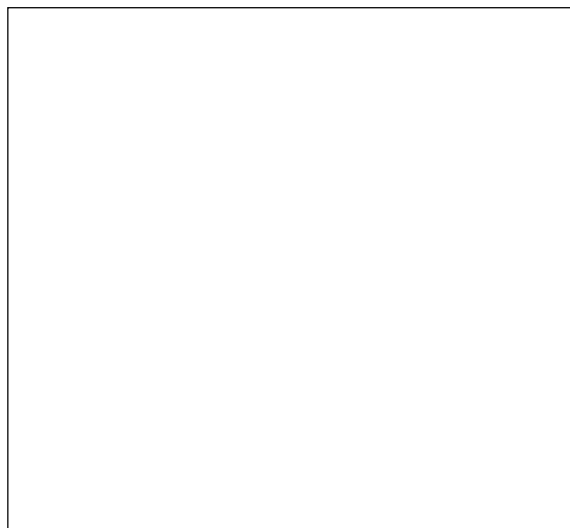
Upward Ratio: 0.00%

Central Intensity: 347.64 cd

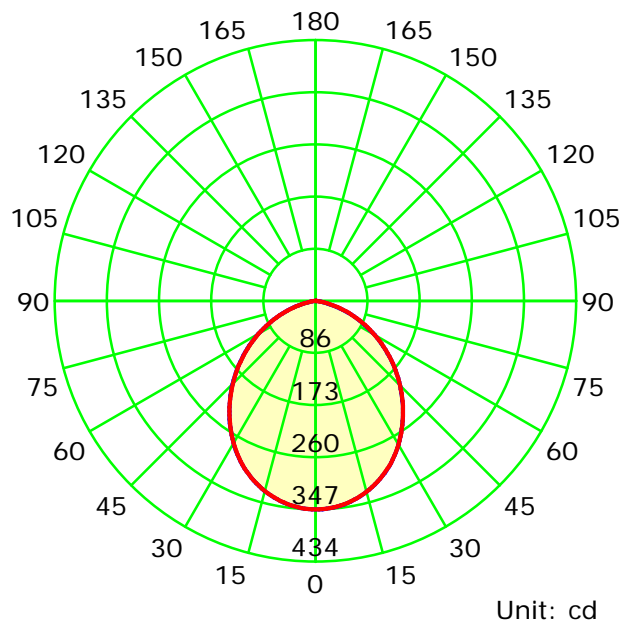
Pos of Max. Intensity: H45 V1

S/MH(C90/C270): 1.18

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 45.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0: 1.0

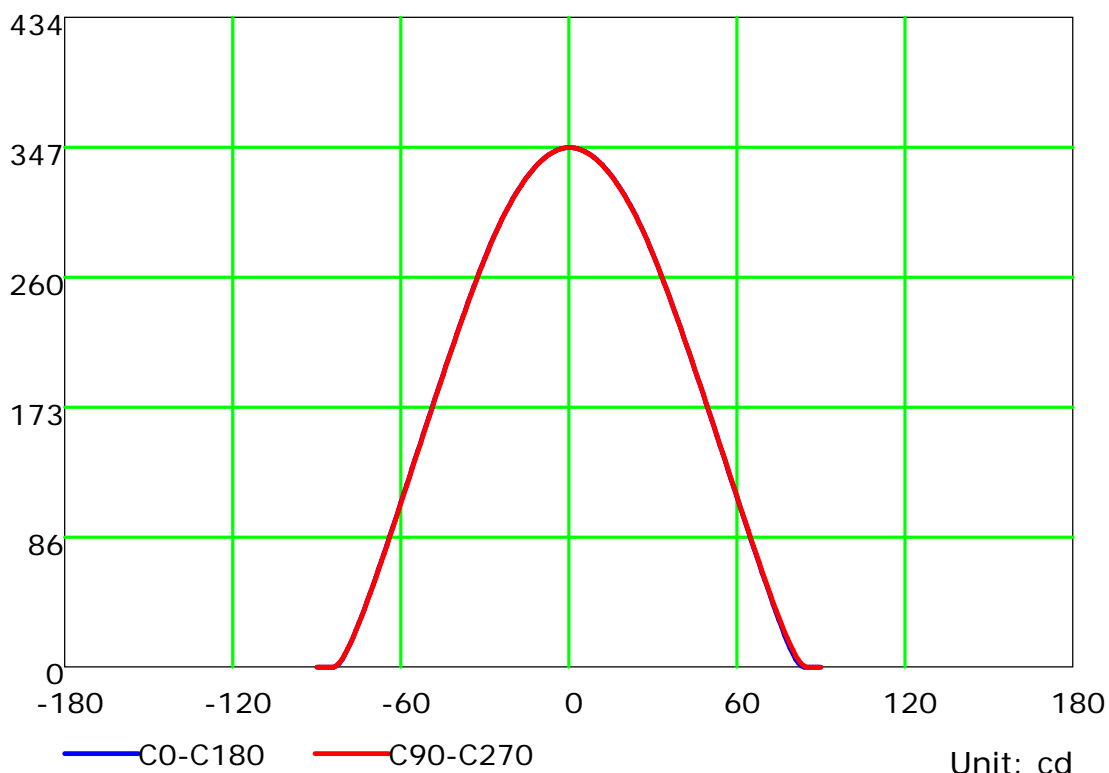
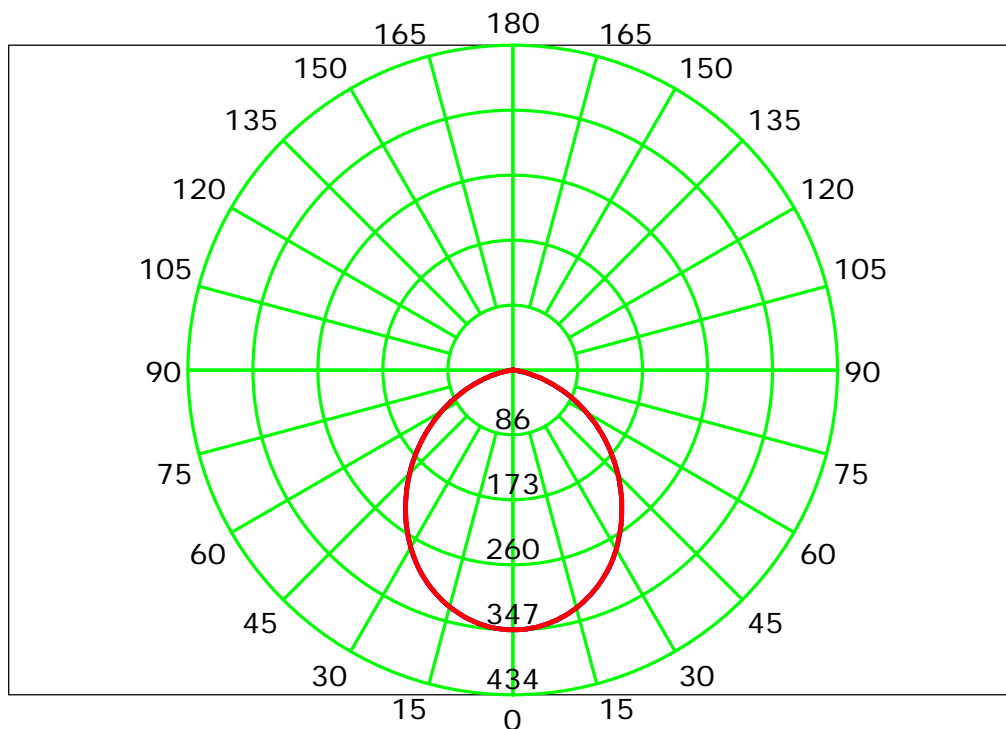
Test Device: GPM-1600

Distance: 7.517 m

Humidity:

Inspector:

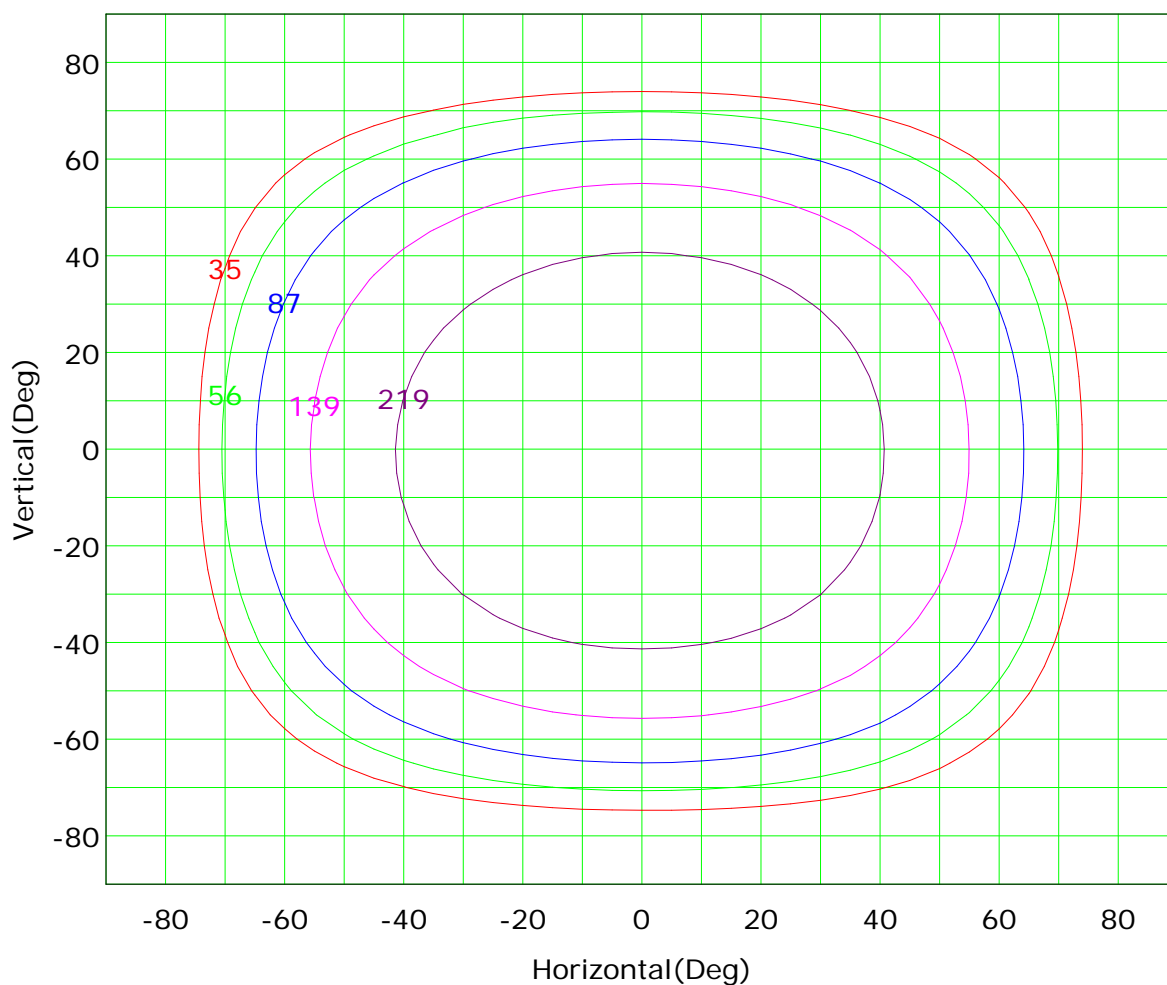
Luminous Intensity Distribution Curve



C Plane (°): 0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°): 0.0-90.0: 1.0
 Test Device: GPM-1600
 Distance: 7.517 m
 Humidity:
 Inspector:

Isocandela (rectangle)



I_{max} (100%): 348 cd

(10%):	35 cd	(16%):	56 cd
(25%):	87 cd	(40%):	139 cd
(63%):	219 cd	(100%):	348 cd

C Plane (°):0.0-360.0: 45.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

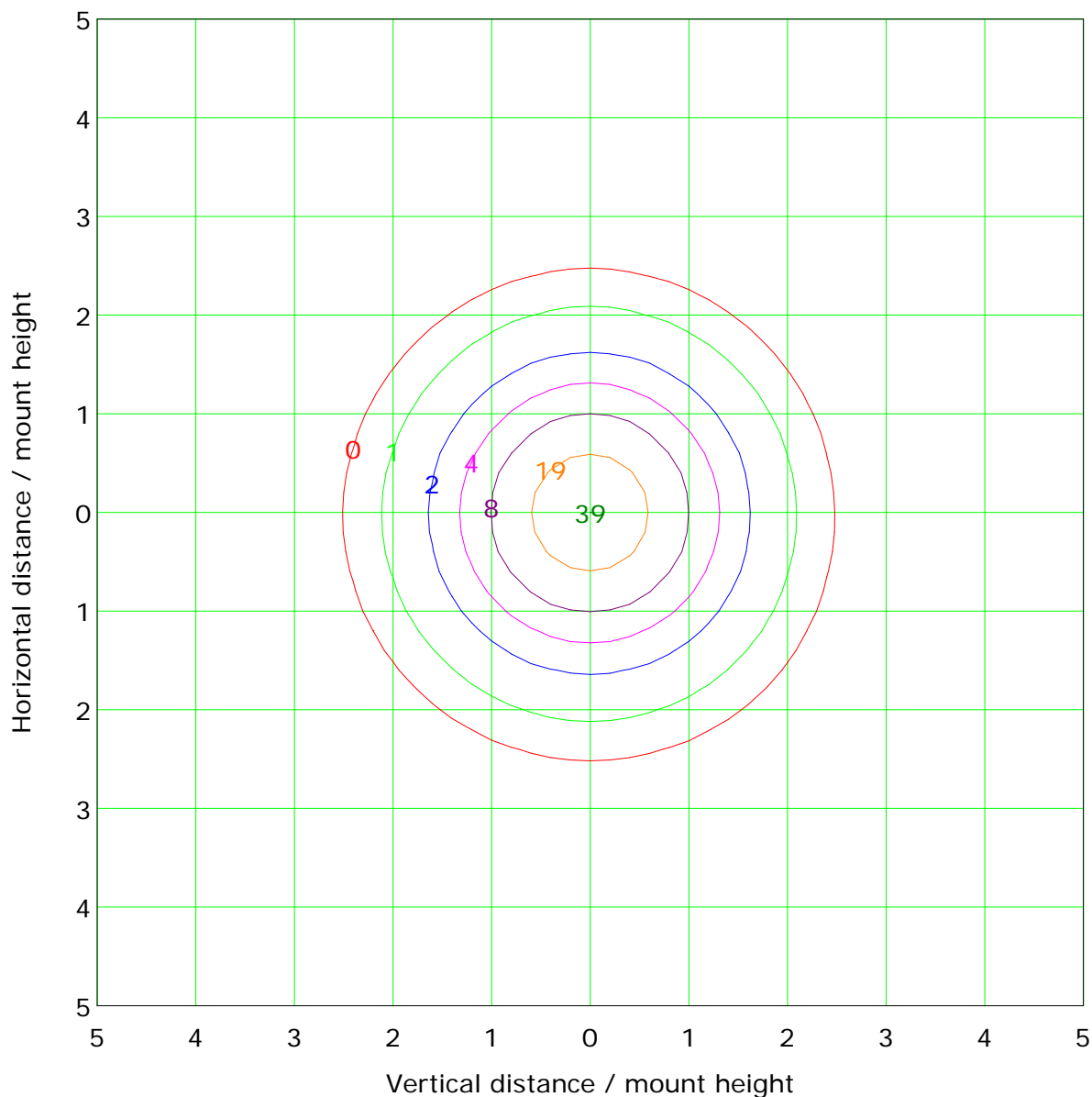
Test Device: GPM-1600

Distance: 7.517 m

Humidity:

Inspector:

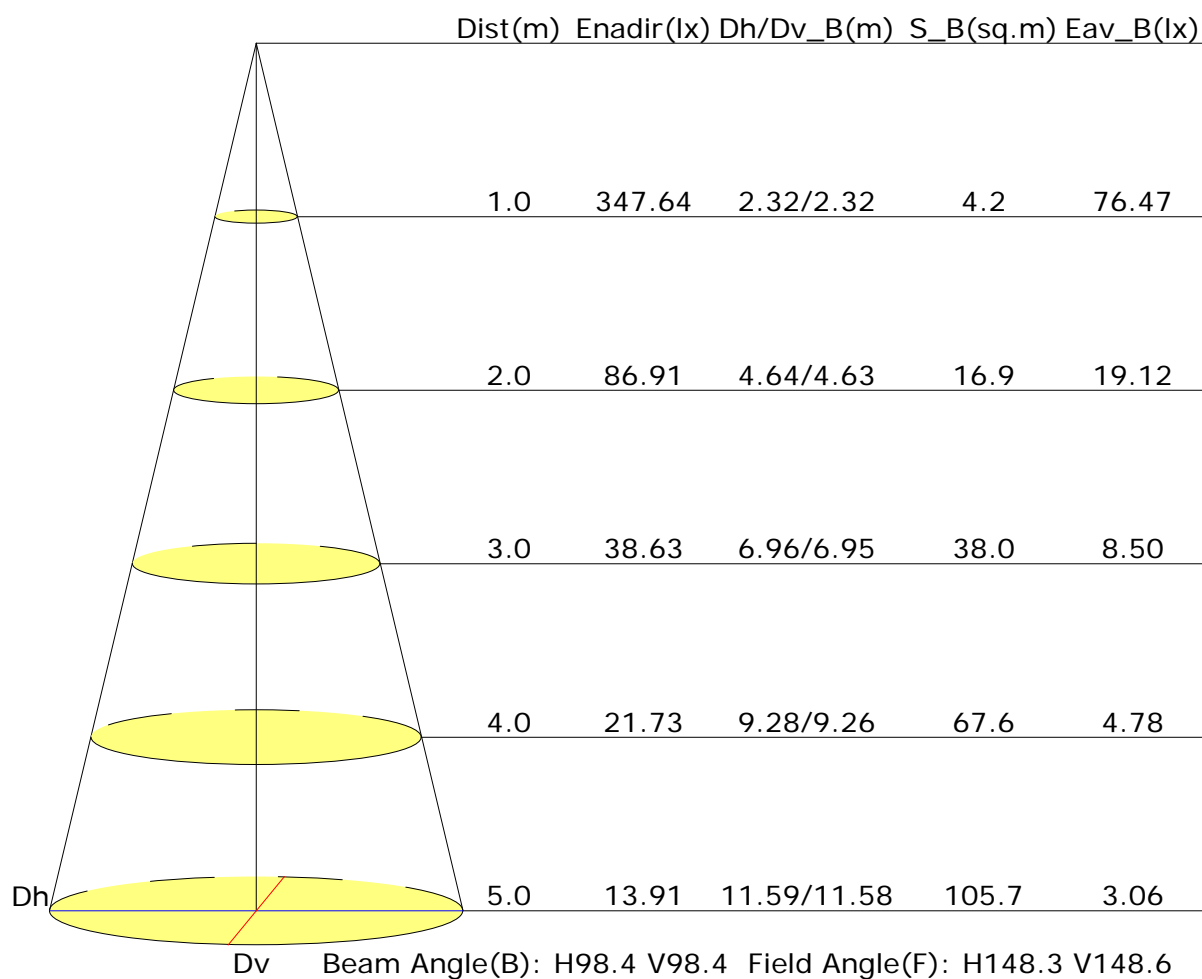
IsoLux Plot



C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600
 Distance: 7.517 m
 Humidity:
 Inspector:

Illuminance at a Distance



C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600
 Distance: 7.517 m
 Humidity:
 Inspector:

UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference 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	25.4	26.7	25.7	27.0	27.2	25.4	26.7	25.7	26.9	27.2
3H	26.5	27.7	26.8	28.0	28.2	26.4	27.6	26.8	27.9	28.2
4H	26.8	27.9	27.1	28.2	28.5	26.7	27.8	27.1	28.1	28.4
6H	26.9	27.9	27.2	28.2	28.5	26.8	27.8	27.2	28.1	28.4
8H	26.8	27.8	27.2	28.1	28.4	26.8	27.8	27.1	28.1	28.4
12H	26.8	27.7	27.2	28.1	28.4	26.7	27.7	27.1	28.0	28.3
X=4H Y=2H	26.0	27.1	26.3	27.3	27.6	25.9	27.0	26.3	27.3	27.6
3H	27.2	28.1	27.6	28.5	28.8	27.1	28.1	27.5	28.4	28.7
4H	27.5	28.4	27.9	28.7	29.1	27.5	28.3	27.9	28.7	29.0
6H	27.6	28.4	28.0	28.7	29.1	27.6	28.3	28.0	28.7	29.1
8H	27.6	28.3	28.0	28.7	29.1	27.6	28.2	28.0	28.6	29.1
12H	27.6	28.2	28.0	28.6	29.0	27.5	28.1	28.0	28.6	29.0
X=8H Y=4H	27.6	28.3	28.1	28.7	29.1	27.6	28.3	28.0	28.7	29.1
6H	27.8	28.3	28.2	28.7	29.2	27.7	28.3	28.2	28.7	29.2
8H	27.7	28.2	28.2	28.7	29.1	27.7	28.2	28.2	28.6	29.1
12H	27.7	28.1	28.2	28.6	29.1	27.7	28.1	28.2	28.6	29.1
X=12H Y=4H	27.6	28.2	28.1	28.6	29.1	27.6	28.2	28.0	28.6	29.0
6H	27.7	28.2	28.2	28.7	29.1	27.7	28.2	28.2	28.6	29.1
8H	27.7	28.1	28.2	28.6	29.1	27.7	28.1	28.2	28.6	29.1
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.2/-0.3				
S=1.5H	+0.4/-0.7					+0.4/-0.8				
S=2.0H	+0.8/-1.4					+0.8/-1.5				

Calculate in accordance with CIE Pub.117. The table is revised with 815lm ($8\log(F/F_0) = -0.7$).

C Plane (°):0.0-360.0: 45.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600
Distance: 7.517 m
Humidity:
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G0.0	347.6	347.6	347.6	347.6	347.6	347.6	347.6	347.6	347.6	
G1.0	347.6	347.6	347.6	347.5	347.5	347.4	347.5	347.3	347.6	
G2.0	347.4	347.4	347.3	347.3	347.2	347.1	347.1	347.0	347.4	
G3.0	347.0	347.0	346.9	346.9	346.7	346.6	346.7	346.6	347.0	
G4.0	346.4	346.5	346.3	346.3	346.0	346.0	346.1	345.8	346.4	
G5.0	345.7	345.7	345.6	345.8	345.2	345.0	345.1	345.0	345.7	
G6.0	344.7	344.8	344.6	344.9	344.2	344.0	344.1	343.9	344.7	
G7.0	343.7	343.8	343.5	343.8	343.1	342.8	343.0	342.6	343.7	
G8.0	342.5	342.5	342.4	342.6	341.7	341.5	341.6	341.3	342.5	
G9.0	341.1	341.1	340.9	341.4	340.2	339.9	340.0	339.7	341.1	
G10.0	339.6	339.6	339.5	339.7	338.5	338.2	338.5	338.0	339.6	
G11.0	337.8	337.9	337.6	338.1	336.8	336.3	336.6	336.3	337.8	
G12.0	335.9	336.0	335.9	336.2	334.7	334.4	334.7	334.4	335.9	
G13.0	333.9	334.0	333.7	334.2	332.6	332.2	332.5	332.3	333.9	
G14.0	331.7	331.9	331.5	331.9	330.3	329.9	330.3	329.8	331.7	
G15.0	329.4	329.5	329.2	329.7	327.9	327.5	327.8	327.7	329.4	
G16.0	326.8	327.1	326.7	327.1	325.3	324.8	325.2	324.9	326.8	
G17.0	324.2	324.4	324.0	324.3	322.4	322.1	322.5	322.2	324.2	
G18.0	321.4	321.7	321.2	321.7	319.6	319.2	319.5	319.3	321.4	
G19.0	318.5	318.9	318.3	319.1	316.6	316.0	316.5	316.3	318.5	
G20.0	315.4	315.7	315.2	315.6	313.4	312.8	313.4	313.2	315.4	
G21.0	312.2	312.5	312.0	312.4	310.1	309.6	310.0	309.5	312.2	
G22.0	308.9	309.2	308.7	309.1	306.7	306.0	306.6	306.2	308.9	
G23.0	305.3	305.8	305.2	305.7	303.1	302.5	303.1	302.5	305.3	
G24.0	301.8	302.1	301.6	302.0	299.5	298.7	299.2	298.5	301.8	
G25.0	297.9	298.4	297.8	298.5	295.5	294.8	295.3	294.4	297.9	
G26.0	294.0	294.5	293.9	294.5	291.5	290.7	291.2	290.3	294.0	
G27.0	289.8	290.4	289.8	290.4	287.3	286.5	287.0	286.1	289.8	
G28.0	285.7	286.1	285.5	286.2	283.0	282.0	282.6	281.5	285.7	
G29.0	281.0	281.8	281.3	281.9	278.5	277.6	278.1	277.6	281.0	
G30.0	276.6	277.1	276.7	277.4	273.9	272.9	273.5	272.3	276.6	
G31.0	271.9	272.6	272.0	272.8	269.0	268.3	268.8	267.7	271.9	
G32.0	267.1	267.9	267.2	268.0	264.4	263.3	264.0	263.3	267.1	
G33.0	262.3	263.1	262.5	263.2	259.3	258.6	259.1	258.6	262.3	
G34.0	257.3	258.1	257.3	258.5	254.5	253.5	254.1	253.6	257.3	
G35.0	252.4	253.1	252.6	253.5	249.4	248.5	249.0	248.4	252.4	
G36.0	247.4	248.1	247.4	248.5	244.3	243.4	243.9	243.1	247.4	

C Plane (°):0.0-360.0: 45.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600

Distance: 7.517 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G37.0	242.2	243.0	242.4	243.2	238.9	238.2	238.6	238.1	242.2	
G38.0	237.0	237.8	237.0	238.1	233.8	232.8	233.4	232.8	237.0	
G39.0	231.8	232.7	231.9	232.9	228.4	227.6	228.0	227.7	231.8	
G40.0	226.5	227.4	226.6	227.7	223.0	222.1	222.8	222.1	226.5	
G41.0	221.0	222.0	221.3	222.1	217.6	216.6	217.2	216.7	221.0	
G42.0	215.6	216.6	215.8	217.0	212.3	211.2	211.8	211.1	215.6	
G43.0	210.3	211.1	210.5	211.3	206.8	205.9	206.2	206.1	210.3	
G44.0	204.6	205.6	204.9	206.1	201.3	200.3	200.9	200.4	204.6	
G45.0	199.2	200.3	199.5	200.5	195.6	194.8	195.2	194.8	199.2	
G46.0	193.6	194.7	193.8	195.1	190.2	189.1	189.6	189.1	193.6	
G47.0	188.2	189.2	188.4	189.6	184.4	183.7	183.9	183.6	188.2	
G48.0	182.6	183.5	182.8	184.0	178.9	178.0	178.3	178.0	182.6	
G49.0	176.9	178.0	177.1	178.4	173.2	172.2	172.6	172.2	176.9	
G50.0	171.3	172.4	171.5	172.9	167.6	166.5	167.1	166.7	171.3	
G51.0	165.6	166.6	166.1	167.1	161.8	160.9	161.2	161.0	165.6	
G52.0	159.8	160.9	160.1	161.5	156.2	155.0	155.5	155.1	159.8	
G53.0	154.4	155.2	154.5	155.8	150.2	149.4	149.8	149.4	154.4	
G54.0	148.3	149.3	148.7	150.1	144.7	143.6	144.2	143.9	148.3	
G55.0	142.8	143.8	143.1	144.4	138.9	138.0	138.6	138.2	142.8	
G56.0	136.9	138.2	137.6	138.8	133.2	132.2	132.7	132.4	136.9	
G57.0	131.2	132.3	131.9	133.1	127.3	126.5	127.0	126.9	131.2	
G58.0	125.4	126.7	126.1	127.4	121.8	120.8	121.1	120.9	125.4	
G59.0	119.8	120.8	120.4	121.7	115.9	114.9	115.6	115.1	119.8	
G60.0	114.0	115.2	114.5	116.0	110.4	109.2	109.8	108.4	114.0	
G61.0	108.4	109.5	108.9	110.3	104.5	103.6	104.1	102.8	108.4	
G62.0	102.6	103.8	103.2	104.6	98.9	97.8	98.3	98.1	102.6	
G63.0	96.8	98.0	97.7	99.0	93.3	92.2	92.7	92.4	96.8	
G64.0	91.3	92.3	92.0	93.4	87.6	86.5	87.0	86.8	91.3	
G65.0	85.7	86.8	86.5	87.7	82.2	81.1	81.6	81.0	85.7	
G66.0	80.2	81.3	80.8	82.2	76.6	75.6	75.9	75.8	80.2	
G67.0	74.6	75.6	75.5	76.8	71.1	69.9	70.5	70.3	74.6	
G68.0	69.0	70.1	69.9	71.3	65.6	64.6	65.0	64.7	69.0	
G69.0	63.5	64.6	64.5	65.8	60.3	59.2	59.7	59.2	63.5	
G70.0	58.3	59.2	59.1	60.6	54.8	53.7	54.4	52.8	58.3	
G71.0	53.0	53.9	53.8	55.2	49.6	48.5	49.3	48.8	53.0	
G72.0	47.4	48.6	48.6	50.2	44.3	43.4	44.1	43.6	47.4	
G73.0	42.1	43.3	43.4	44.9	39.2	38.4	39.0	38.7	42.1	

C Plane (°):0.0-360.0: 45.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600

Distance: 7.517 m

Humidity:

Inspector:

Unit: cd

C Plane (°):0.0-360.0: 45.0
Test Lab:
Test Type: TYPE C
Temperature:
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Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600
Distance: 7.517 m
Humidity:
Inspector: