

Report No.: GFB17109

Test Time: 2017-07-24 15:17

## Luminaire Property

Luminaire Manufacturer: ASD Lighting Corp.

Luminaire Description: ASD-WP01L-28N50B-PRM Lamp Catalog: LED

Voltage: 277.2 V

Current: 0.108 A

Power: 27.76 W

Power Factor: 0.924

## Photometric Results

CIE Class: Direct

Measurement Flux: 3861.8 lm

Downward Ratio: 93%

Horizontal Diffuse Angle(50%): H106.5

Vertical Diffuse Angle(50%): V108.9

Luminaire Efficacy Rating (LER): 139.16

Max. Intensity: 1511.4 cd

S/MH(C0/C180): 1.66

Total Rated Lamp Lumens: 3861.8 lm

Efficiency: 100%

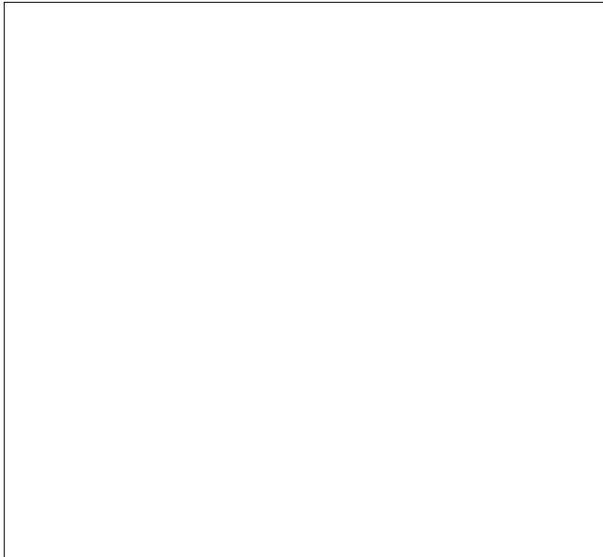
Upward Ratio: 7%

Central Intensity: 963.26 cd

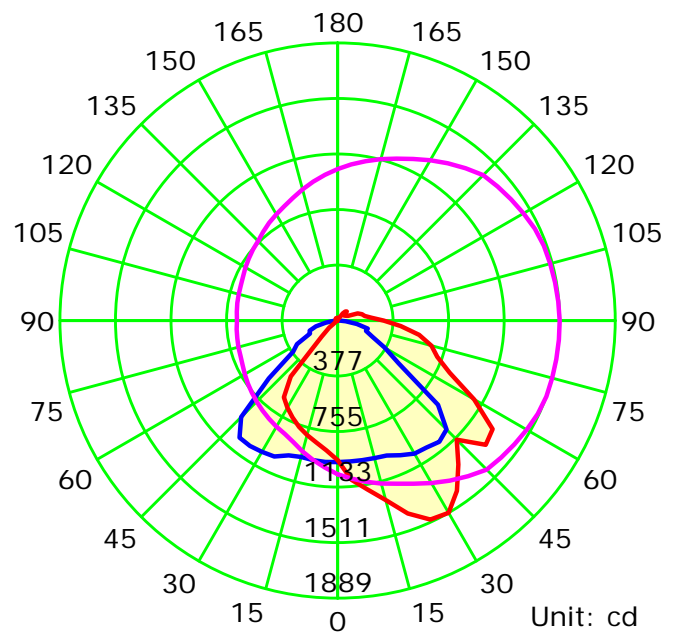
Pos of Max. Intensity: H67.5 V30

S/MH(C90/C270): 1.54

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270 — G30

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:5.0

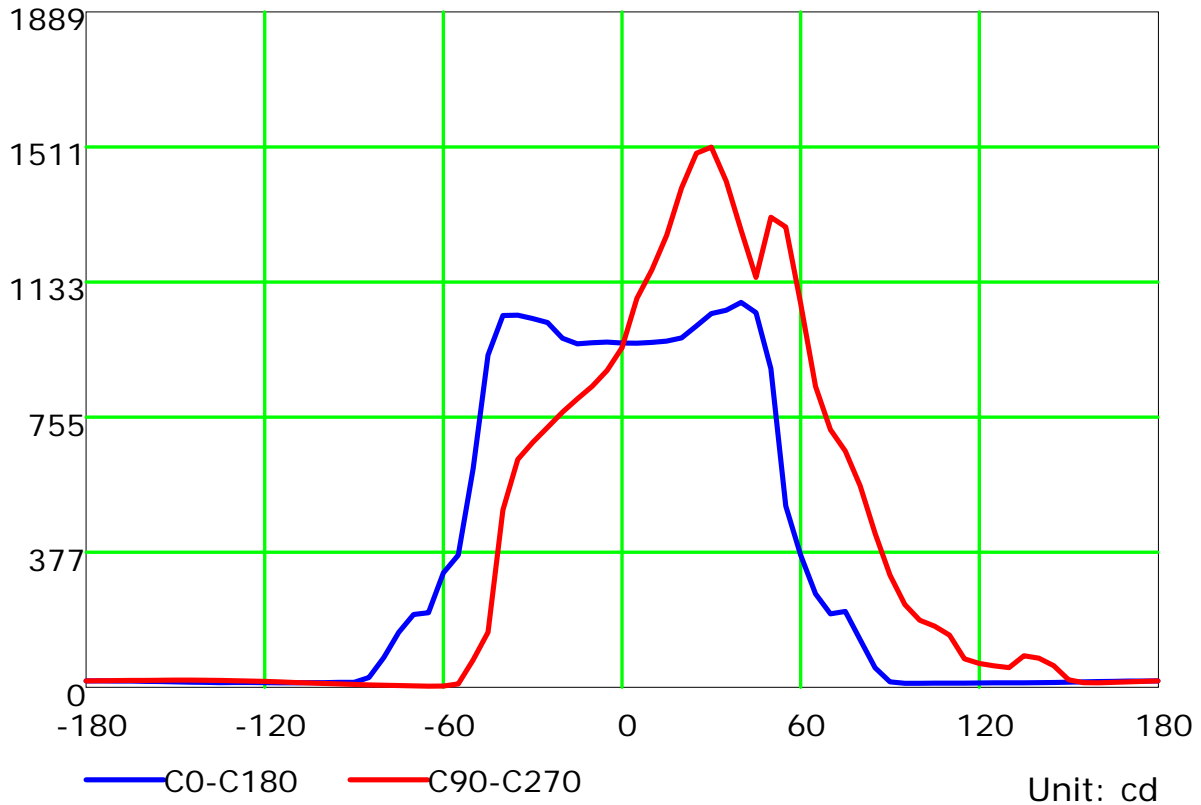
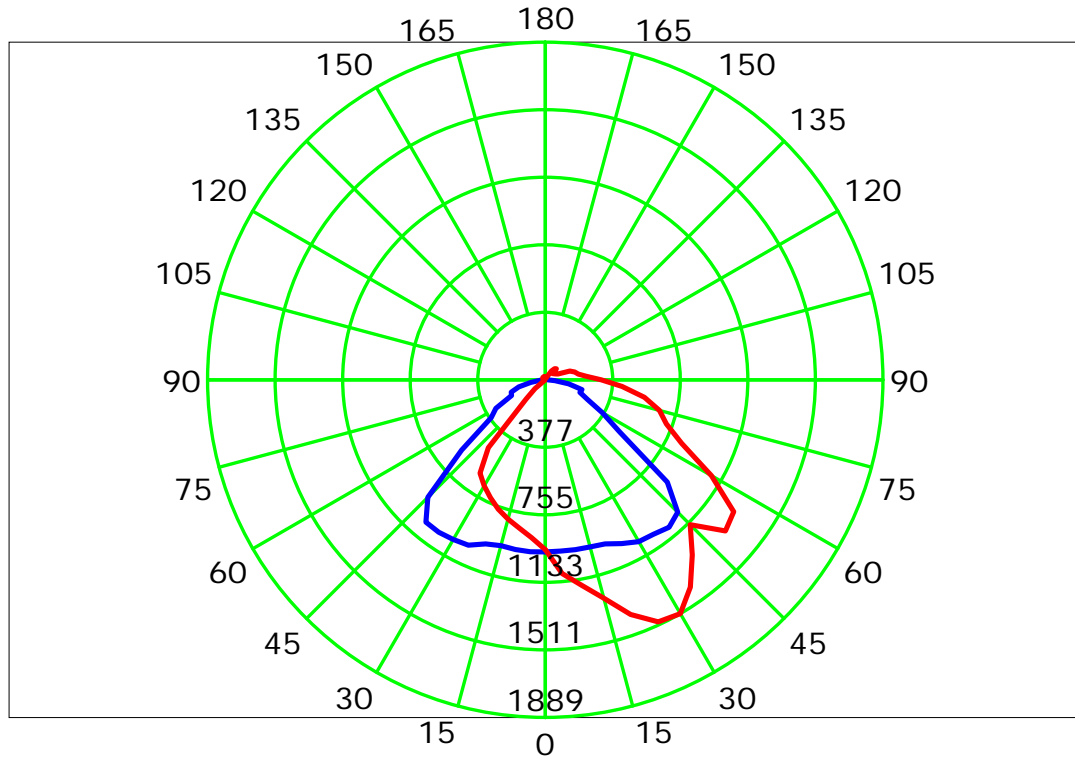
Test Device: GPM-1600L

Distance: 8.154 m

Humidity:

Inspector:

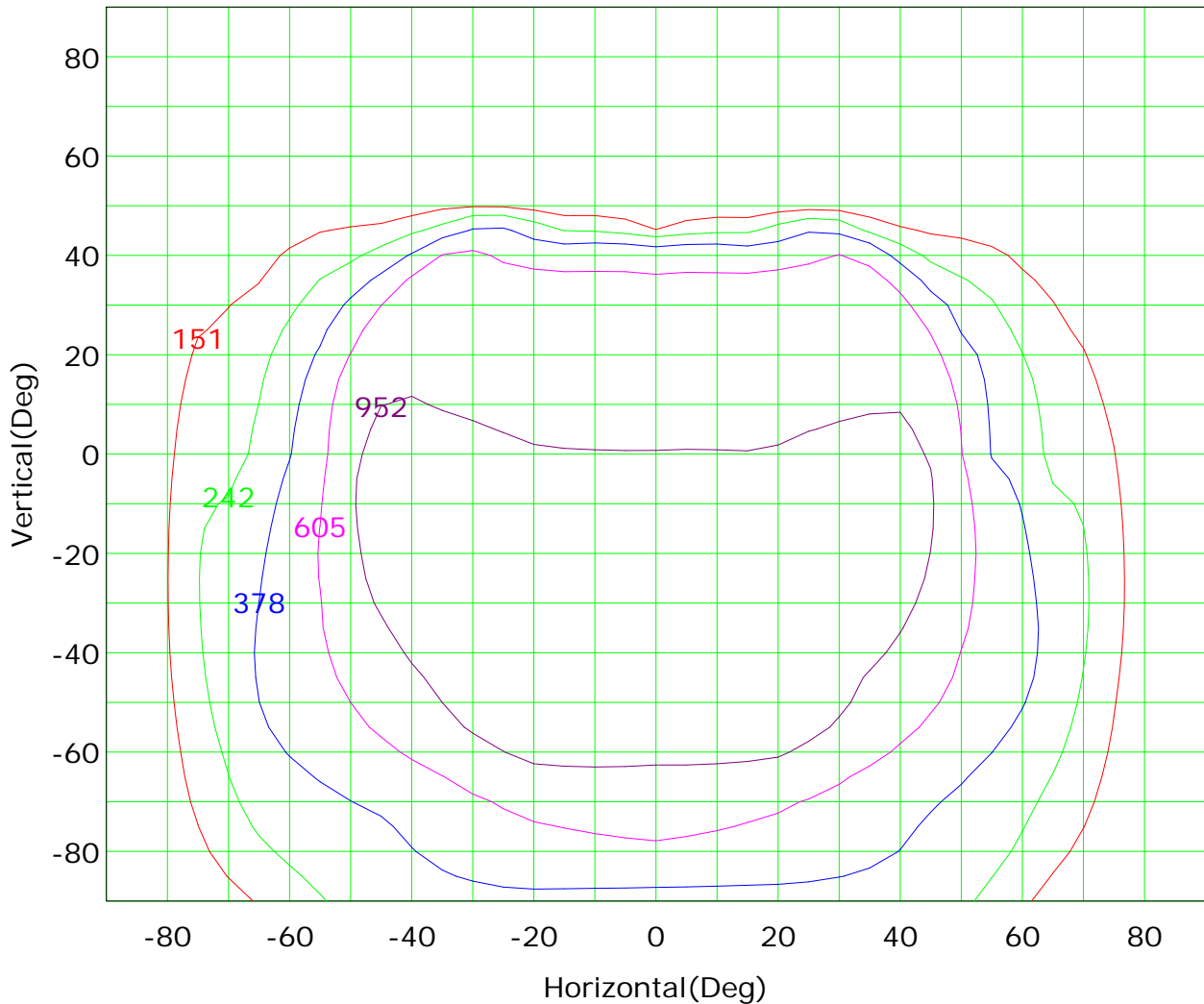
## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
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## Isocandela (rectangle)



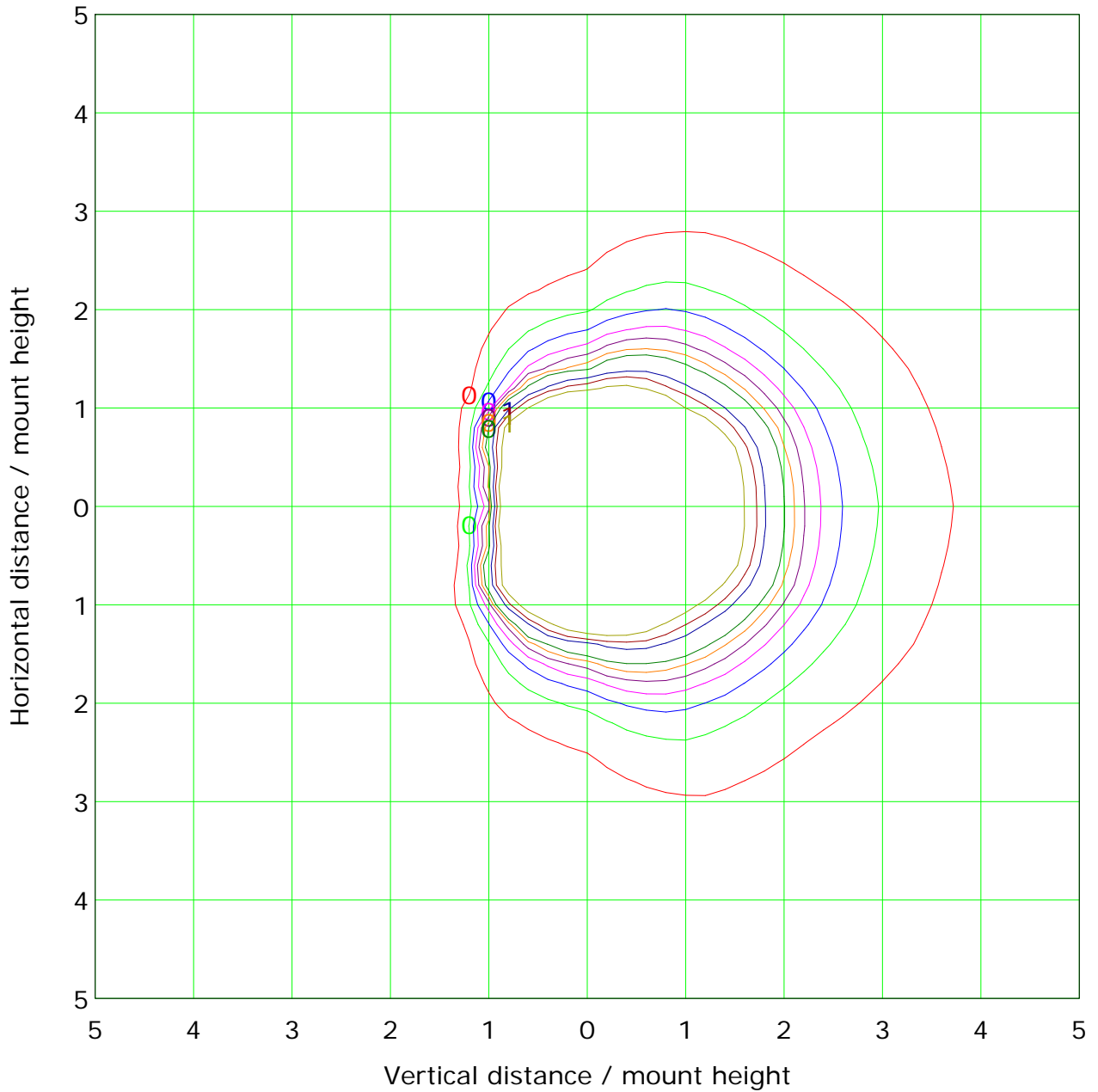
Imax (100%): 1511 cd

— ( 10%):	151 cd	— ( 16%):	242 cd
— ( 25%):	378 cd	— ( 40%):	605 cd
— ( 63%):	952 cd	— (100%):	1511 cd

C Plane (°):0.0-360.0: 22.5  
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 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:5.0  
 Test Device: GPM-1600L  
 Distance: 8.154 m  
 Humidity:  
 Inspector:

# IsoLux Plot

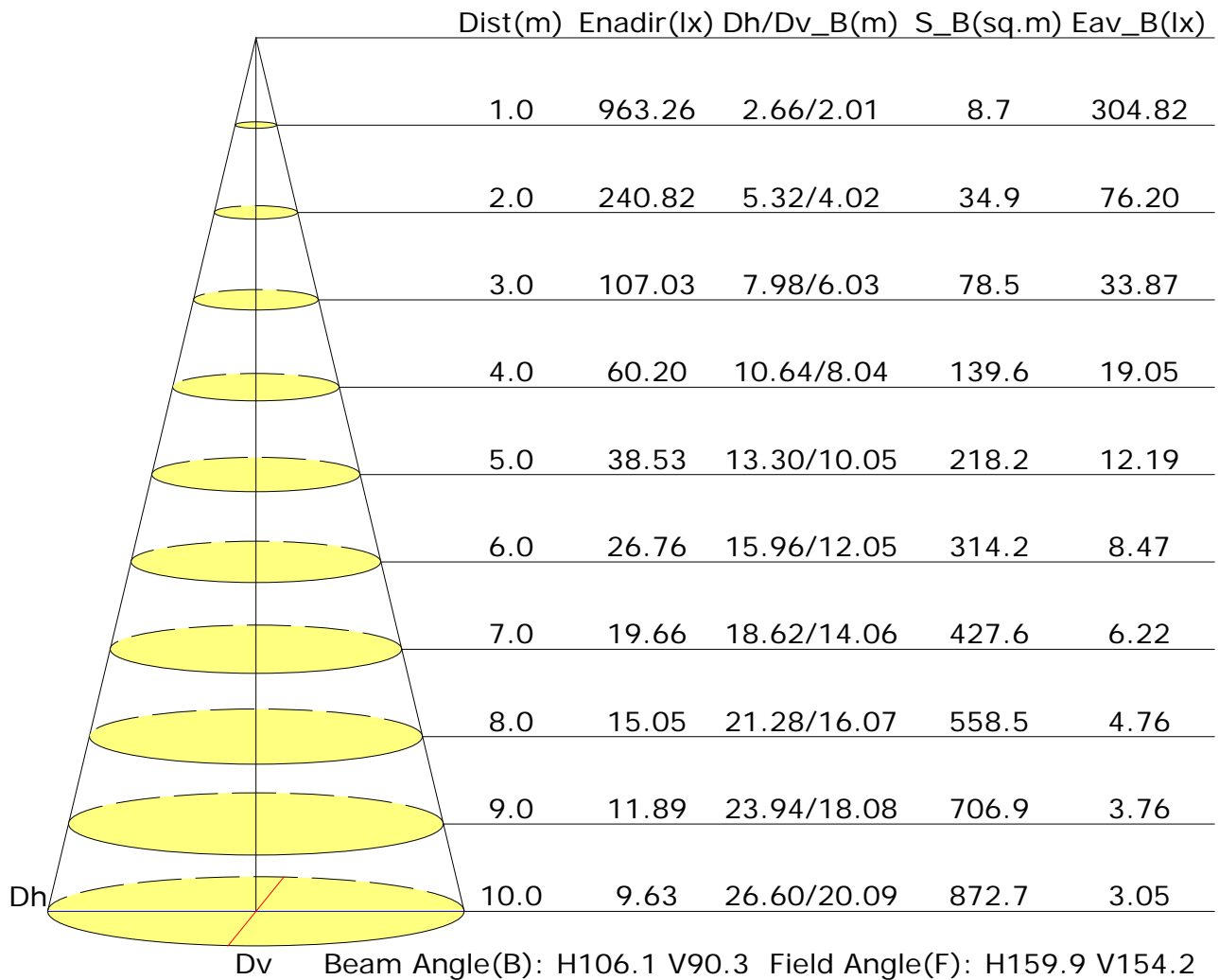


Mounting Height: 15.0m		Max Lux(100%): 5.2 lx	
— ( 1%):	0.1 lx	— ( 2%):	0.1 lx
— ( 3%):	0.2 lx	— ( 4%):	0.2 lx
— ( 5%):	0.3 lx	— ( 6%):	0.3 lx
— ( 7%):	0.4 lx	— (10%):	0.5 lx
— (12%):	0.6 lx	— (15%):	0.8 lx

C Plane (°):0.0-360.0: 22.5  
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Gamma Plane (°):0.0-180.0:5.0  
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 Distance: 8.154 m  
 Humidity:  
 Inspector:

## Illuminance at a Distance



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:5.0

Test Device: GPM-1600L

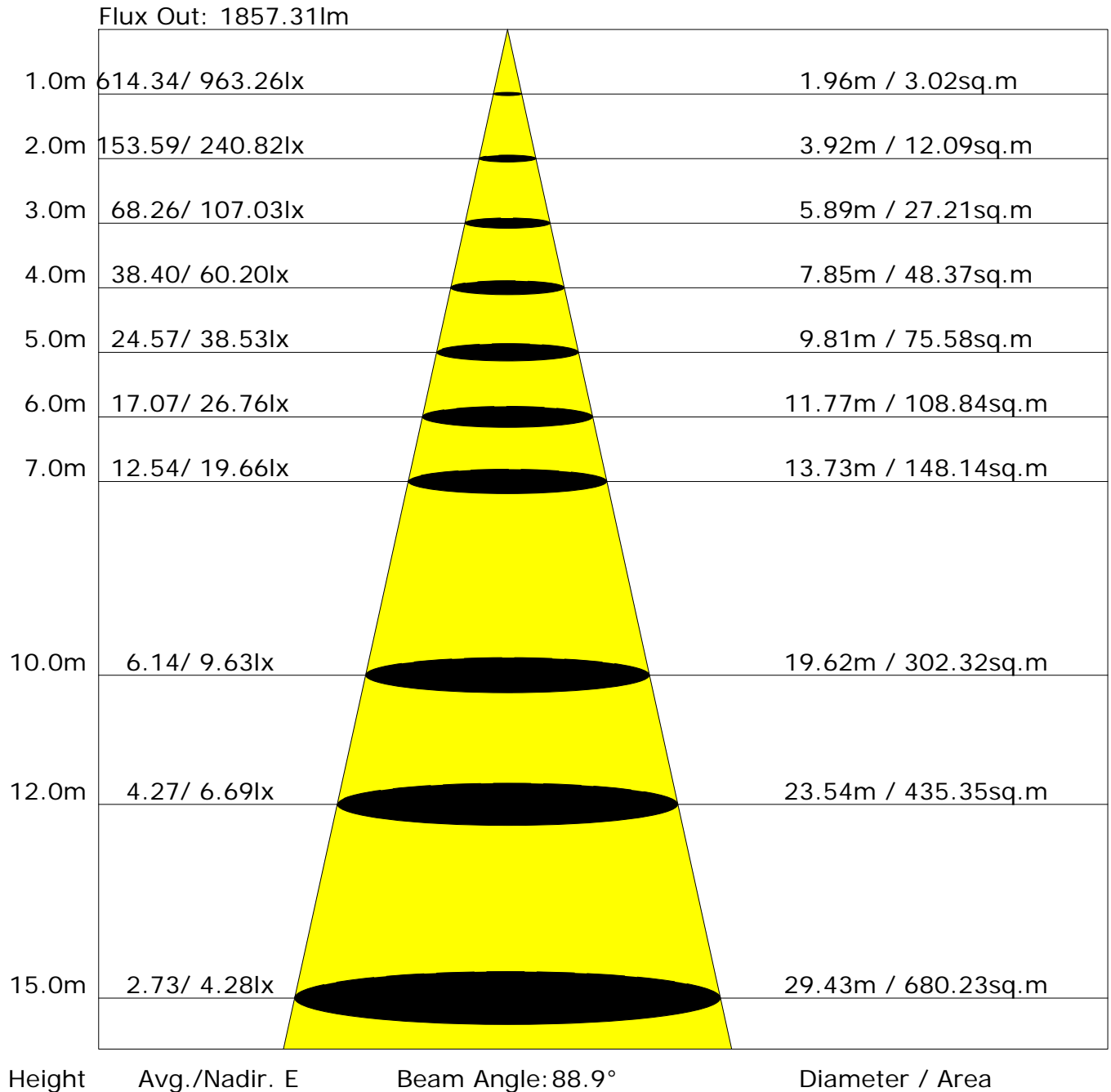
Distance: 8.154 m

Humidity:

Inspector:



## The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 22.5  
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 Distance: 8.154 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	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=4H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=8H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=12H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
Variations with the observer position at spacings:										
S=1.0H	-1.\$/-1.\$					-1.\$/-1.\$				
S=1.5H	-1.\$/-1.\$					-1.\$/-1.\$				
S=2.0H	-1.\$/-1.\$					-1.\$/-1.\$				

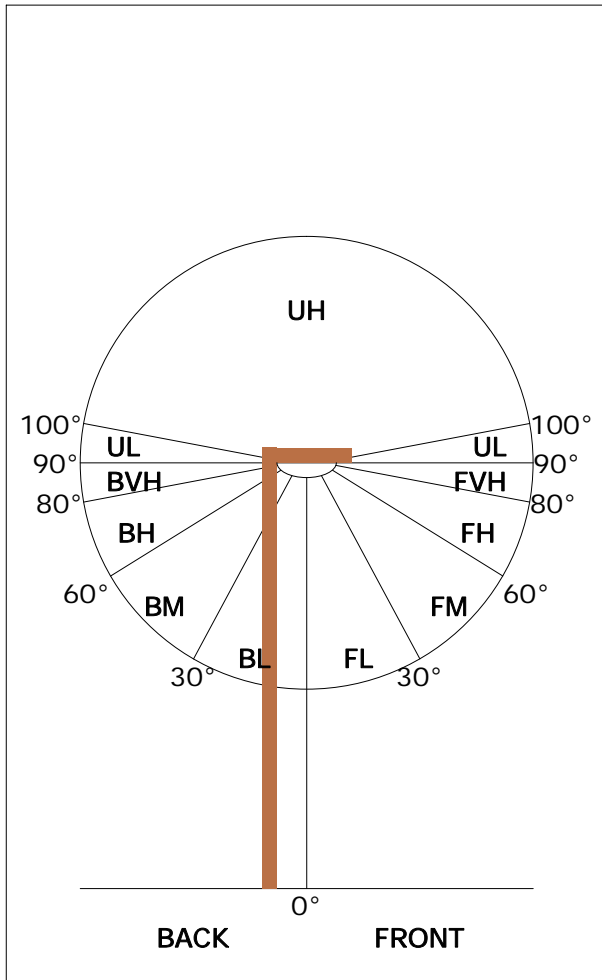
Calculate in accordance with CIE Pub.117. The table is revised with 3862Im ( $8\log(F/F_0) = 4.7$ ).

C Plane (°):0.0-360.0: 22.5  
 Test Lab:  
 Test Type: TYPE C  
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Gamma Plane (°):0.0-180.0:5.0  
 Test Device: GPM-1600L  
 Distance: 8.154 m  
 Humidity:  
 Inspector:



**FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM**



ZONE	LUMENS	% LAMP LUMENS
<b>FORWARD LIGHT</b>	<b>1840</b>	<b>47.6</b>
FL ( 0°-30°)	436	11.3
FM (30°-60°)	991	25.7
FH (60°-80°)	325	8.4
FVH (80°-90°)	88	2.3
<b>BACK LIGHT</b>	<b>1743</b>	<b>45.1</b>
BL ( 0°-30°)	433	11.2
BM (30°-60°)	931	24.1
BH (60°-80°)	296	7.7
BVH (80°-90°)	82	2.1
<b>UP LIGHT</b>	<b>279</b>	<b>7.2</b>
UL (90°-100°)	99	2.6
UH (100°-180°)	180	4.7
<b>TRAPPED LIGHT</b>	<b>NA</b>	<b>NA</b>

<b>BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07</b>	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U3 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U3 G1

C Plane (°):0.0-360.0: 22.5  
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Gamma Plane (°):0.0-180.0:5.0  
 Test Device: GPM-1600L  
 Distance: 8.154 m  
 Humidity:  
 Inspector:

## Candlepower Table

Unit: cd

GVC	C0.0	C22.5	C45.0	C67.5	C90.0	C112.5	C135.0	C157.5	C180.0	C202.5
G0.0	963.3	956.8	952.7	950.1	950.2	949.7	950.4	951.7	963.3	956.8
G5.0	962.5	1024.8	1061.5	1082.4	1088.1	1080.8	1058.5	1021.2	966.0	928.5
G10.0	965.0	1071.7	1125.8	1157.0	1167.1	1154.9	1119.0	1061.7	964.3	906.5
G15.0	968.5	1107.0	1181.8	1240.7	1264.5	1238.9	1170.2	1084.6	961.0	878.1
G20.0	977.4	1136.9	1252.2	1357.1	1397.1	1357.1	1233.7	1106.3	976.8	859.6
G25.0	1011.2	1168.9	1345.3	1470.3	1494.2	1460.7	1320.0	1142.4	1020.7	859.4
G30.0	1045.3	1198.8	1434.2	1511.4	1511.2	1490.7	1400.8	1190.4	1031.6	871.1
G35.0	1055.1	1249.7	1468.1	1471.6	1415.6	1435.9	1429.0	1243.2	1041.1	863.6
G40.0	1077.0	1311.2	1451.5	1373.4	1278.9	1333.9	1401.4	1268.1	1040.1	864.1
G45.0	1048.4	1285.5	1358.5	1222.8	1146.9	1189.9	1300.5	1163.1	929.4	835.1
G50.0	891.5	1097.3	1257.8	1239.0	1315.1	1261.8	1129.7	909.1	611.9	594.7
G55.0	507.5	817.6	1005.4	1383.0	1287.6	1343.4	889.7	684.6	369.9	327.2
G60.0	370.1	637.9	864.9	1167.9	1073.7	1108.9	766.8	554.7	320.2	243.8
G65.0	261.5	536.6	717.2	902.2	841.9	836.5	637.1	482.2	208.8	161.3
G70.0	205.9	470.1	541.9	687.4	721.1	647.7	500.3	403.9	203.7	99.3
G75.0	212.6	388.3	419.4	596.5	661.1	575.0	408.9	309.4	154.0	14.2
G80.0	133.0	293.6	355.1	535.1	563.4	514.4	360.5	232.0	83.6	7.9
G85.0	54.8	228.1	328.2	439.9	431.0	416.0	343.7	171.7	27.7	7.6
G90.0	15.3	138.5	310.3	328.8	314.1	308.4	310.7	93.3	14.0	7.5
G95.0	11.5	78.5	255.3	240.2	231.6	228.2	235.6	66.4	14.0	7.8
G100.0	11.2	56.0	179.5	186.2	187.7	180.7	154.9	48.2	13.2	8.3
G105.0	11.8	40.4	113.0	148.9	171.4	146.1	96.9	40.3	13.1	9.1
G110.0	12.0	36.4	81.6	121.7	145.9	118.9	73.5	36.6	12.6	10.0
G115.0	11.9	33.6	64.5	100.7	79.8	101.4	64.7	37.5	12.8	10.9
G120.0	12.1	31.0	56.8	82.1	67.1	86.9	62.0	25.7	13.1	12.2
G125.0	12.6	19.7	66.6	69.8	60.4	80.3	74.3	19.4	13.5	13.4
G130.0	12.6	15.6	61.5	71.4	55.5	84.8	71.0	15.8	13.7	14.4
G135.0	12.7	14.9	57.0	90.0	88.6	104.7	58.2	15.1	13.2	15.2
G140.0	13.2	14.1	26.2	71.2	81.9	85.8	27.4	14.0	14.0	15.9
G145.0	13.9	12.7	18.6	31.9	60.8	40.6	20.8	13.2	14.7	16.5
G150.0	14.6	12.8	13.2	15.1	21.3	19.7	13.4	13.6	15.4	17.1
G155.0	15.4	13.9	12.4	12.0	13.3	12.9	13.3	14.7	16.2	17.7
G160.0	16.2	15.0	13.7	13.2	12.9	13.4	14.3	15.9	17.0	18.2
G165.0	16.9	16.0	15.0	14.4	14.0	14.4	15.4	16.7	17.5	18.3
G170.0	17.5	16.8	16.1	15.7	15.5	15.8	16.4	17.2	17.8	18.3
G175.0	17.9	17.4	17.0	17.0	16.9	17.0	17.2	17.7	18.0	18.1
G180.0	18.1	17.9	17.8	18.0	18.1	18.0	17.9	18.0	18.1	17.8

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:5.0

Test Device: GPM-1600L

Distance: 8.154 m

Humidity:

Inspector:

## Candlepower Table (Continue 1)

Unit: cd

GVC	C225.0	C247.5	C270.0	C292.5	C315.0	C337.5	C360.0			
G0.0	952.7	950.1	950.2	949.7	950.4	951.7	963.3			
G5.0	907.9	892.5	886.7	889.9	901.5	919.8	962.5			
G10.0	870.9	851.3	842.5	847.2	865.3	899.8	965.0			
G15.0	838.2	819.3	807.0	815.2	837.3	879.5	968.5			
G20.0	808.8	784.3	770.0	781.6	814.9	865.4	977.4			
G25.0	781.4	749.4	727.3	749.9	793.6	862.6	1011.2			
G30.0	766.0	703.8	685.2	705.8	779.5	860.8	1045.3			
G35.0	763.4	669.4	637.9	674.0	761.0	860.0	1055.1			
G40.0	767.7	618.9	496.4	632.2	748.1	872.8	1077.0			
G45.0	785.2	290.2	154.3	319.8	774.5	874.4	1048.4			
G50.0	632.0	130.1	76.8	137.4	706.2	765.4	891.5			
G55.0	185.3	12.6	9.5	17.1	246.6	450.2	507.5			
G60.0	61.7	4.5	3.9	5.1	91.3	272.5	370.1			
G65.0	5.6	3.2	3.5	3.2	9.4	193.9	261.5			
G70.0	3.5	3.9	4.2	3.8	3.4	113.5	205.9			
G75.0	3.8	4.7	5.0	4.5	3.7	51.1	212.6			
G80.0	4.5	5.6	5.8	5.4	4.3	7.6	133.0			
G85.0	5.4	6.7	6.9	6.4	5.1	7.1	54.8			
G90.0	6.4	7.9	8.3	7.7	6.0	7.1	15.3			
G95.0	7.7	9.2	9.7	8.9	7.1	7.4	11.5			
G100.0	9.1	10.5	11.0	10.1	8.4	7.8	11.2			
G105.0	10.5	11.9	12.4	11.5	9.7	8.3	11.8			
G110.0	12.0	13.4	13.8	12.9	11.1	9.2	12.0			
G115.0	13.4	14.8	15.3	14.3	12.5	10.2	11.9			
G120.0	14.6	16.0	16.7	15.5	13.7	11.3	12.1			
G125.0	15.7	17.0	17.8	16.6	14.9	12.5	12.6			
G130.0	16.5	18.0	18.8	17.5	15.8	13.6	12.6			
G135.0	17.1	18.7	19.5	18.2	16.5	14.5	12.7			
G140.0	17.7	19.2	19.9	18.8	17.1	15.2	13.2			
G145.0	18.2	19.5	20.2	19.3	17.6	15.8	13.9			
G150.0	18.6	19.7	20.3	19.5	18.0	16.4	14.6			
G155.0	18.9	19.6	19.9	19.4	18.3	17.0	15.4			
G160.0	18.9	19.3	19.5	19.4	18.6	17.6	16.2			
G165.0	18.9	19.0	19.3	19.2	18.7	18.1	16.9			
G170.0	18.7	18.8	19.1	19.0	18.7	18.2	17.5			
G175.0	18.4	18.5	18.7	18.6	18.5	18.2	17.9			
G180.0	17.9	17.9	18.1	18.0	18.0	18.0	18.1			

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Test Device: GPM-1600L

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