

Report No.:

Test Time: 2016-11-15 11:43

Luminaire Property

Luminaire Manufacturer: P.Q.L., Inc.

Luminaire Category: Direct Linear Ambient Luminaires

Luminaire Description: 55251

Voltage: 120.1 V

Current: 0.315 A

Power: 37.65 W

Power Factor: 0.996

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 4375.8 lm

Measurement Flux: 4375.8 lm

Efficiency: 100%

Downward Ratio: 93%

Upward Ratio: 7%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 156.8, 206.7, 183.4, 183.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 100.4, 120.3, 108.0, 108.3

Luminaire Efficacy Rating (LER): 116.27

Central Intensity: 1404.05 cd

Max. Intensity: 1404.05 cd

Pos of Max. Intensity: H0 V0

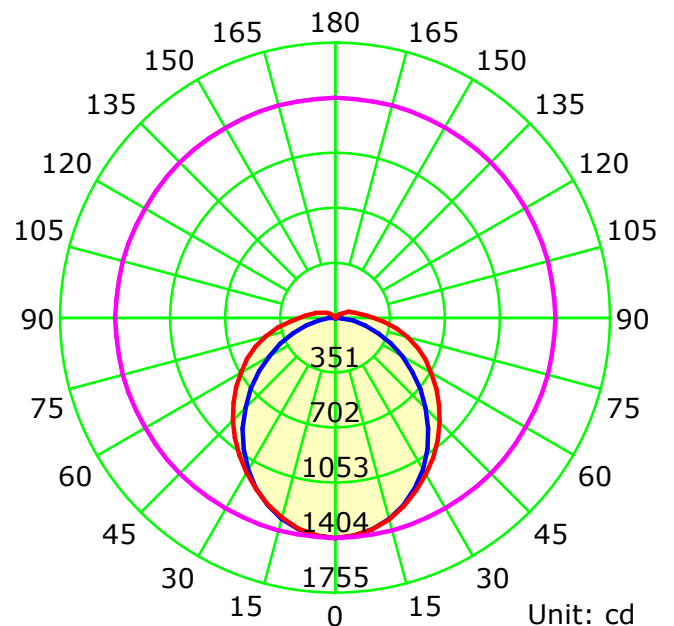
S/MH(C0/C180): 1.19

S/MH(C90/C270): 1.22

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 110.4°

— C0-C180 — C90-C270 — G0

C Plane (°):0.0-360.0: 22.5

Gamma Plane (°):0.0-180.0:5.0

Test Lab: BACL

Test Device: GPM-1900

Test Type: TYPE C

Distance: 13.995 m

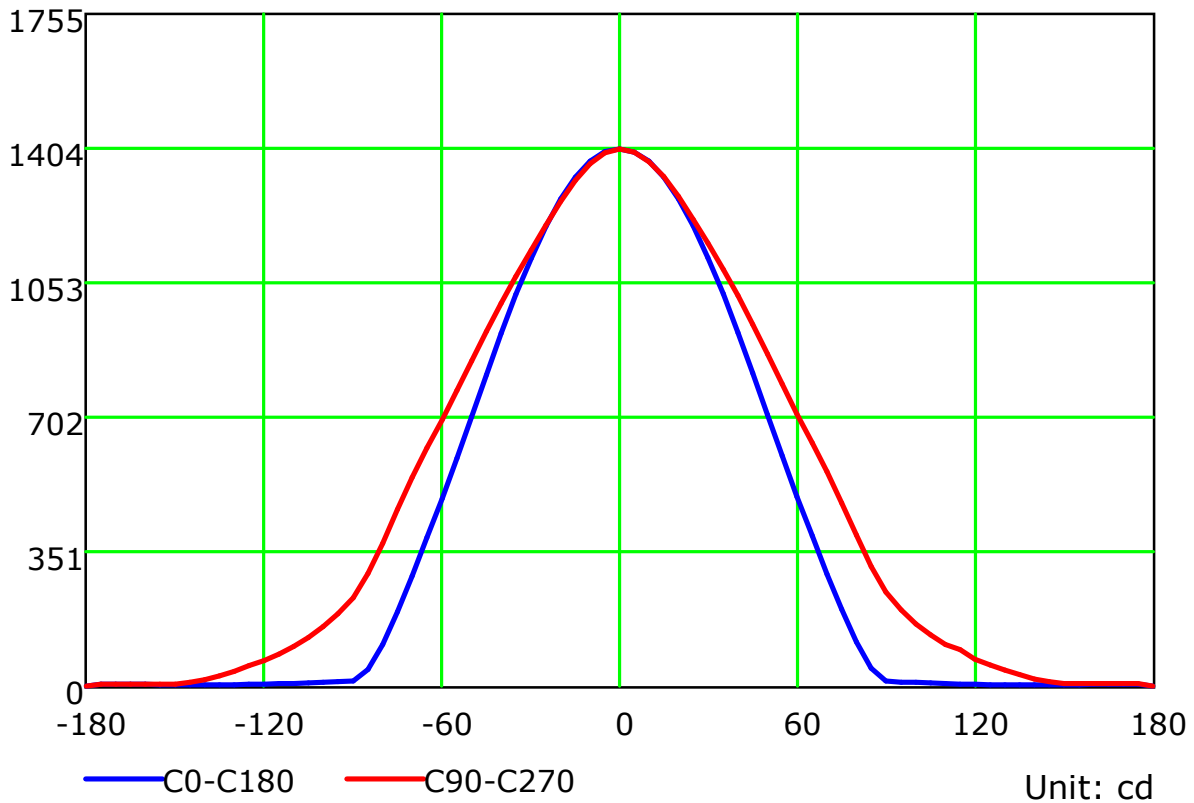
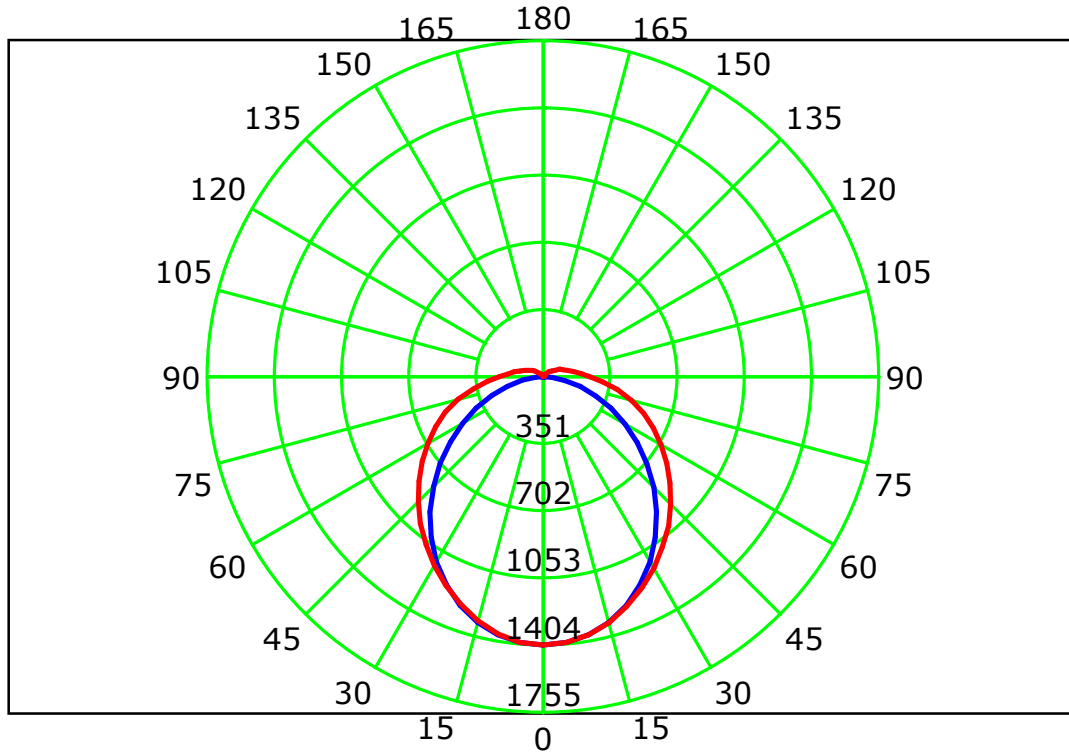
Temperature: 25.1 °C

Humidity: 65

Operator: JACK

Inspector:

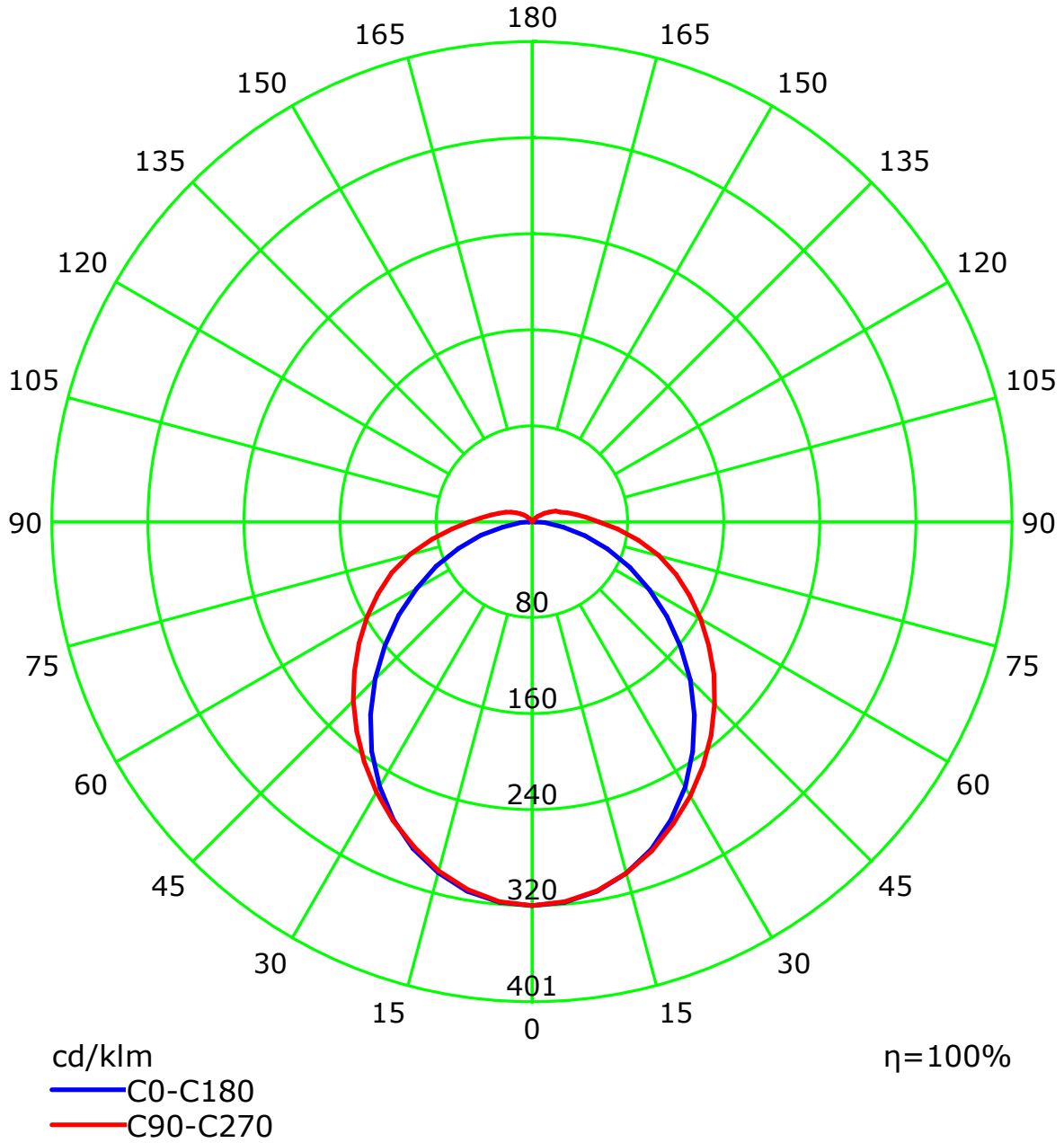
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5
 Test Lab: BACL
 Test Type: TYPE C
 Temperature: 25.1 'C
 Operator: JACK

Gamma Plane (°):0.0-180.0:5.0
 Test Device: GPM-1900
 Distance: 13.995 m
 Humidity: 65
 Inspector:

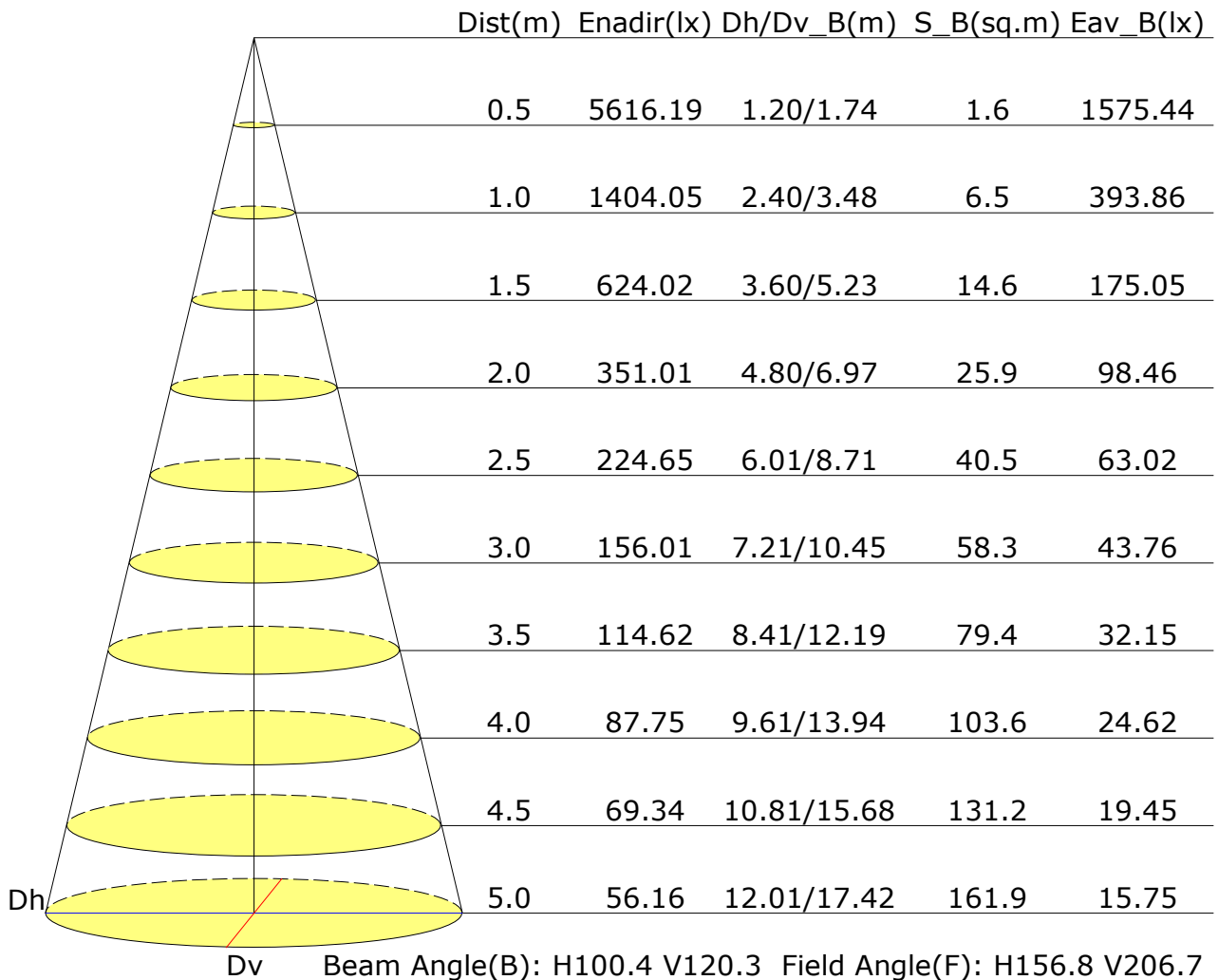
Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 22.5
 Test Lab: BACL
 Test Type: TYPE C
 Temperature: 25.1 'C
 Operator: JACK

Gamma Plane (°):0.0-180.0:5.0
 Test Device: GPM-1900
 Distance: 13.995 m
 Humidity: 65
 Inspector:

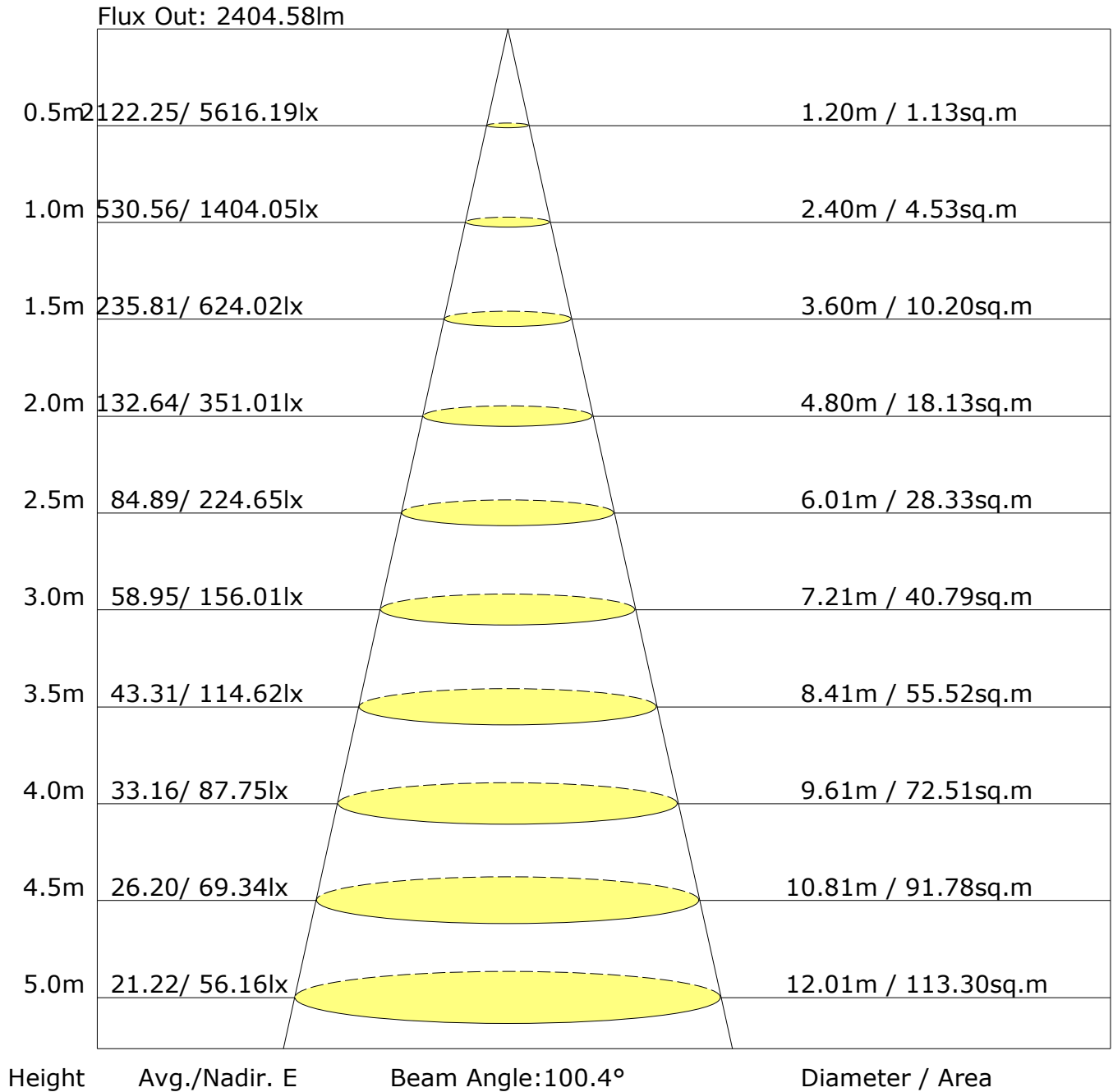
Illuminance at a Distance



C Plane (°):0.0-360.0: 22.5
 Test Lab: BACL
 Test Type: TYPE C
 Temperature: 25.1 'C
 Operator: JACK

Gamma Plane (°):0.0-180.0:5.0
 Test Device: GPM-1900
 Distance: 13.995 m
 Humidity: 65
 Inspector:

The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 22.5
 Test Lab: BACL
 Test Type: TYPE C
 Temperature: 25.1 'C
 Operator: JACK

Gamma Plane (°):0.0-180.0:5.0
 Test Device: GPM-1900
 Distance: 13.995 m
 Humidity: 65
 Inspector:

UGR Table

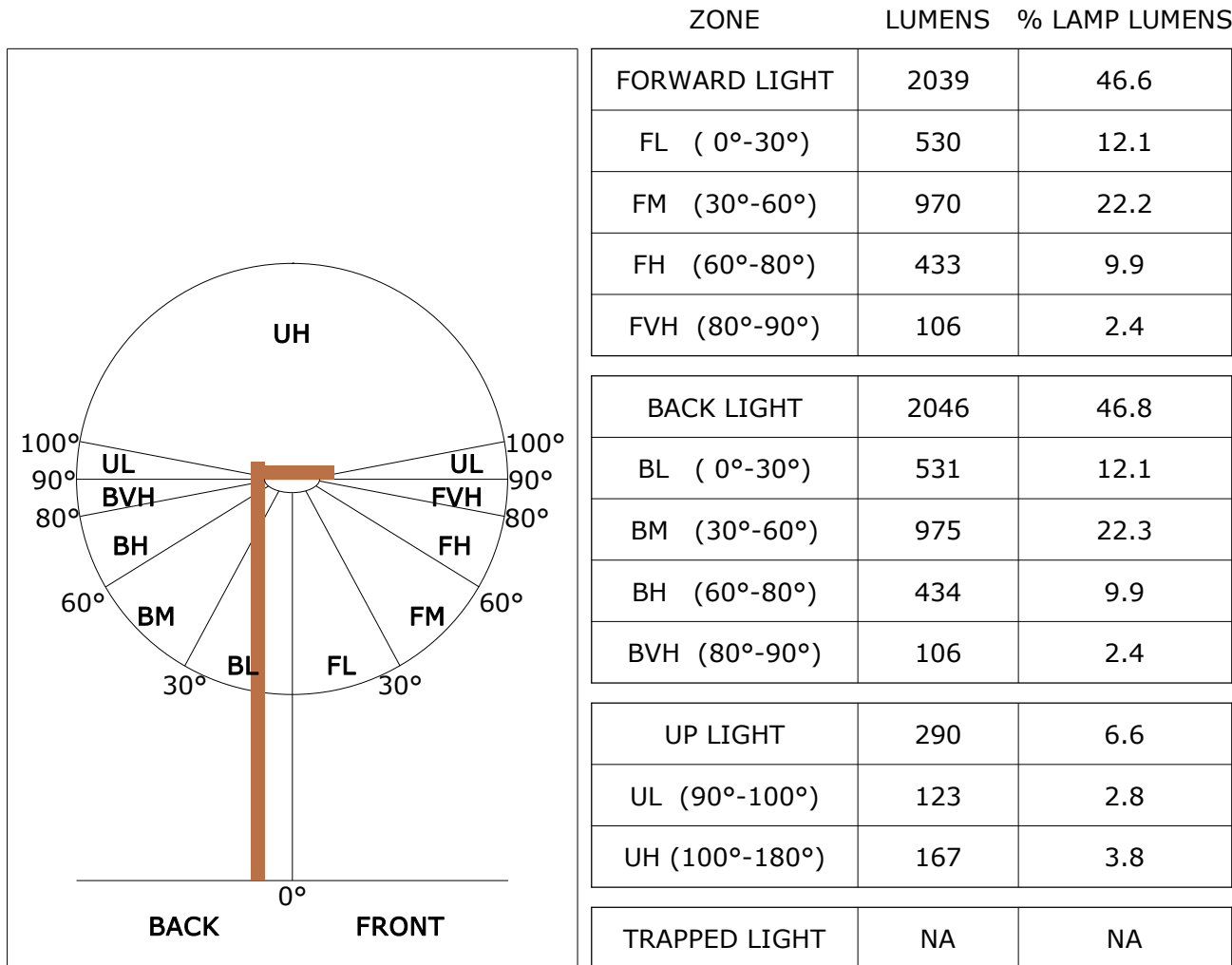
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-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 $4376lm (8\log(F/F_0) = 5.1)$.

C Plane (°):0.0-360.0: 22.5
 Test Lab: BACL
 Test Type: TYPE C
 Temperature: 25.1 'C
 Operator: JACK

Gamma Plane (°):0.0-180.0:5.0
 Test Device: GPM-1900
 Distance: 13.995 m
 Humidity: 65
 Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B2 U3 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 U3 G1

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 Inspector:

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-5.0	1399.4	33.5	33.5	0.76	0.76
5.0-10.0	1381.7	98.9	132.3	2.26	3.02
10.0-15.0	1348.1	159.9	292.2	3.66	6.68
15.0-20.0	1299.4	214.2	506.4	4.89	11.57
20.0-25.0	1237.8	259.6	766.1	5.93	17.51
25.0-30.0	1166.7	295.3	1061.4	6.75	24.26
30.0-35.0	1088.6	320.6	1382.0	7.33	31.58
35.0-40.0	1004.5	335.2	1717.2	7.66	39.24
40.0-45.0	916.4	339.4	2056.5	7.76	47.00
45.0-50.0	825.7	333.7	2390.2	7.63	54.62
50.0-55.0	733.9	319.1	2709.4	7.29	61.92
55.0-60.0	642.6	297.1	3006.4	6.79	68.71
60.0-65.0	553.6	269.2	3275.6	6.15	74.86
65.0-70.0	467.2	236.6	3512.2	5.41	80.27
70.0-75.0	382.6	200.0	3712.2	4.57	84.84
75.0-80.0	300.7	160.9	3873.1	3.68	88.51
80.0-85.0	224.9	122.2	3995.4	2.79	91.31
85.0-90.0	164.4	90.0	4085.4	2.06	93.36
90.0-95.0	125.5	68.7	4154.1	1.57	94.93
95.0-100.0	100.3	54.5	4208.6	1.25	96.18
100.0-105.0	80.3	43.0	4251.6	0.98	97.16
105.0-110.0	64.0	33.5	4285.0	0.76	97.93
110.0-115.0	51.5	26.1	4311.1	0.60	98.52
115.0-120.0	40.5	19.7	4330.8	0.45	98.97
120.0-125.0	30.5	14.1	4344.9	0.32	99.29
125.0-130.0	22.9	10.0	4354.9	0.23	99.52
130.0-135.0	16.7	6.7	4361.6	0.15	99.68
135.0-140.0	11.7	4.3	4366.0	0.10	99.78
140.0-145.0	8.3	2.8	4368.8	0.06	99.84
145.0-150.0	6.6	1.9	4370.7	0.04	99.88
150.0-155.0	6.1	1.5	4372.2	0.04	99.92
155.0-160.0	6.0	1.3	4373.5	0.03	99.95
160.0-165.0	6.1	1.0	4374.5	0.02	99.97
165.0-170.0	6.2	0.7	4375.2	0.02	99.99
170.0-175.0	6.3	0.5	4375.7	0.01	100.00
175.0-180.0	3.2	0.1	4375.8	0.00	100.00

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 Test Device: GPM-1900
 Distance: 13.995 m
 Humidity: 65
 Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C22.5	C45.0	C67.5	C90.0	C112.5	C135.0	C157.5	C180.0	C202.5
G0.0	1404.0	1404.0	1404.0	1404.0	1404.0	1404.0	1404.0	1404.0	1404.0	1404.0
G5.0	1395.6	1394.8	1394.2	1393.9	1394.2	1394.4	1395.4	1396.5	1395.9	1396.0
G10.0	1371.0	1369.4	1368.2	1368.4	1369.9	1369.9	1370.4	1372.9	1371.2	1370.3
G15.0	1330.1	1328.2	1327.0	1328.5	1331.7	1331.9	1332.2	1332.5	1329.2	1329.0
G20.0	1272.9	1270.6	1272.8	1274.0	1279.7	1279.0	1276.9	1277.4	1272.4	1271.8
G25.0	1202.2	1200.4	1205.0	1210.7	1219.3	1217.1	1210.4	1208.0	1201.6	1201.0
G30.0	1119.3	1120.1	1130.7	1143.3	1156.9	1149.3	1135.4	1127.5	1117.8	1118.0
G35.0	1025.5	1030.4	1049.7	1071.8	1089.5	1080.1	1054.6	1037.1	1024.1	1025.0
G40.0	923.1	935.8	962.9	995.7	1020.1	1004.6	968.9	941.5	921.8	927.6
G45.0	818.0	835.2	874.1	918.2	945.2	925.8	881.1	839.6	812.7	826.8
G50.0	709.7	733.8	780.6	837.6	868.0	844.6	790.2	737.1	703.8	724.6
G55.0	602.2	632.0	689.1	756.6	790.1	762.2	698.6	634.2	595.4	621.6
G60.0	496.1	530.9	598.6	676.1	711.6	680.1	607.8	533.0	490.0	521.5
G65.0	394.4	434.7	511.8	596.1	635.4	600.3	520.0	436.5	387.8	423.4
G70.0	293.9	340.5	427.6	519.4	561.3	523.0	435.2	342.4	287.9	331.3
G75.0	201.9	253.9	347.2	440.9	479.1	444.4	353.1	254.6	194.8	245.3
G80.0	116.8	175.7	272.8	361.1	394.9	362.5	276.2	175.8	110.3	167.8
G85.0	47.5	108.6	204.8	283.9	312.6	283.5	206.3	108.4	43.7	103.2
G90.0	13.9	67.0	153.7	222.2	245.9	220.9	153.9	66.3	14.4	64.4
G95.0	11.7	48.9	122.5	179.8	200.1	179.1	122.1	47.9	12.9	46.8
G100.0	10.1	35.6	97.9	146.3	163.4	145.0	96.6	35.0	11.4	34.1
G105.0	8.6	25.7	76.9	119.0	134.5	117.7	76.0	24.8	9.8	24.5
G110.0	7.2	18.1	60.2	96.8	109.9	95.3	58.9	17.4	8.2	16.6
G115.0	6.5	13.9	49.3	82.9	96.7	82.8	49.4	13.4	7.2	10.9
G120.0	5.3	8.5	34.7	61.8	71.7	60.4	33.7	8.0	6.1	7.3
G125.0	4.9	6.6	24.9	47.7	56.3	46.5	24.1	6.6	5.4	5.6
G130.0	4.5	6.0	17.0	35.6	42.4	34.3	16.2	5.8	4.9	4.9
G135.0	4.4	5.7	11.3	25.0	30.2	23.8	10.7	5.7	4.5	4.8
G140.0	4.4	5.6	7.5	16.4	19.9	15.4	7.3	5.6	4.4	4.4
G145.0	4.6	5.7	6.9	10.2	12.3	9.8	6.9	5.5	4.3	4.1
G150.0	4.9	5.9	6.8	7.8	7.7	7.8	6.9	5.6	4.4	4.4
G155.0	5.0	6.2	6.9	7.6	7.3	7.3	6.9	6.0	4.7	4.6
G160.0	5.2	6.5	6.8	7.4	7.1	7.2	6.9	6.0	5.1	4.9
G165.0	5.4	6.5	6.9	7.2	6.9	7.0	6.8	6.2	5.3	5.3
G170.0	5.8	6.6	6.7	7.1	6.7	6.8	6.8	6.5	5.5	5.8
G175.0	5.9	6.6	6.6	7.2	7.1	7.1	6.7	6.5	5.7	6.3
G180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

C Plane (°):0.0-360.0: 22.5
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Gamma Plane (°):0.0-180.0:5.0
 Test Device: GPM-1900
 Distance: 13.995 m
 Humidity: 65
 Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C225.0	C247.5	C270.0	C292.5	C315.0	C337.5	C360.0			
G0.0	1404.0	1404.0	1404.0	1404.0	1404.0	1404.0	1404.0			
G5.0	1394.9	1394.0	1393.4	1393.1	1393.7	1394.4	1395.6			
G10.0	1368.5	1366.7	1365.3	1365.4	1364.7	1367.1	1371.0			
G15.0	1326.2	1323.6	1321.9	1322.0	1321.2	1324.2	1330.1			
G20.0	1268.7	1266.6	1265.9	1264.8	1262.7	1266.5	1272.9			
G25.0	1197.6	1201.4	1204.7	1199.4	1192.3	1195.2	1202.2			
G30.0	1121.7	1131.9	1139.7	1131.8	1113.9	1112.0	1119.3			
G35.0	1037.9	1059.5	1070.7	1057.7	1031.3	1019.9	1025.5			
G40.0	950.6	983.5	999.8	982.0	942.6	919.8	923.1			
G45.0	861.7	903.9	926.6	903.5	854.2	817.9	818.0			
G50.0	771.0	823.6	850.6	823.1	764.5	714.9	709.7			
G55.0	678.6	743.0	773.5	741.3	675.1	612.7	602.2			
G60.0	588.8	663.3	696.7	662.5	587.5	514.0	496.1			
G65.0	502.1	586.1	622.3	585.3	502.3	419.5	394.4			
G70.0	419.1	510.1	546.0	508.9	418.1	327.3	293.9			
G75.0	339.3	427.8	461.8	425.5	339.3	242.7	201.9			
G80.0	263.7	344.9	373.2	343.1	265.2	165.5	116.8			
G85.0	196.0	268.4	295.0	267.2	197.0	102.0	47.5			
G90.0	148.0	210.3	232.0	209.1	147.7	63.5	13.9			
G95.0	117.5	170.2	189.1	169.6	117.1	46.7	11.7			
G100.0	93.6	138.5	155.5	138.3	92.7	34.0	10.1			
G105.0	73.1	113.4	127.8	112.6	72.8	24.4	8.6			
G110.0	56.6	91.9	104.7	91.2	56.5	17.0	7.2			
G115.0	42.9	73.6	85.0	73.2	43.4	11.1	6.5			
G120.0	31.9	57.7	68.5	57.7	32.2	7.6	5.3			
G125.0	22.7	44.2	53.5	44.5	22.9	5.8	4.9			
G130.0	14.7	32.2	40.0	32.5	15.2	5.2	4.5			
G135.0	9.0	22.2	28.0	22.3	9.9	4.7	4.4			
G140.0	5.8	13.9	17.9	14.2	6.2	4.5	4.4			
G145.0	5.5	8.2	10.6	8.5	5.8	4.4	4.6			
G150.0	5.5	6.4	6.5	6.5	5.8	4.6	4.9			
G155.0	5.3	6.2	6.1	6.3	5.7	4.9	5.0			
G160.0	5.3	5.9	5.8	6.1	5.6	5.1	5.2			
G165.0	5.5	6.1	5.6	6.1	5.7	5.4	5.4			
G170.0	5.8	6.0	5.7	6.2	5.8	5.9	5.8			
G175.0	6.3	6.4	6.0	6.3	6.1	6.5	5.9			
G180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

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