

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P242742

Luminaire Tested: S124RDRP-S575D835-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-31)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S575D835-X4F0-XX-UDD-A-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

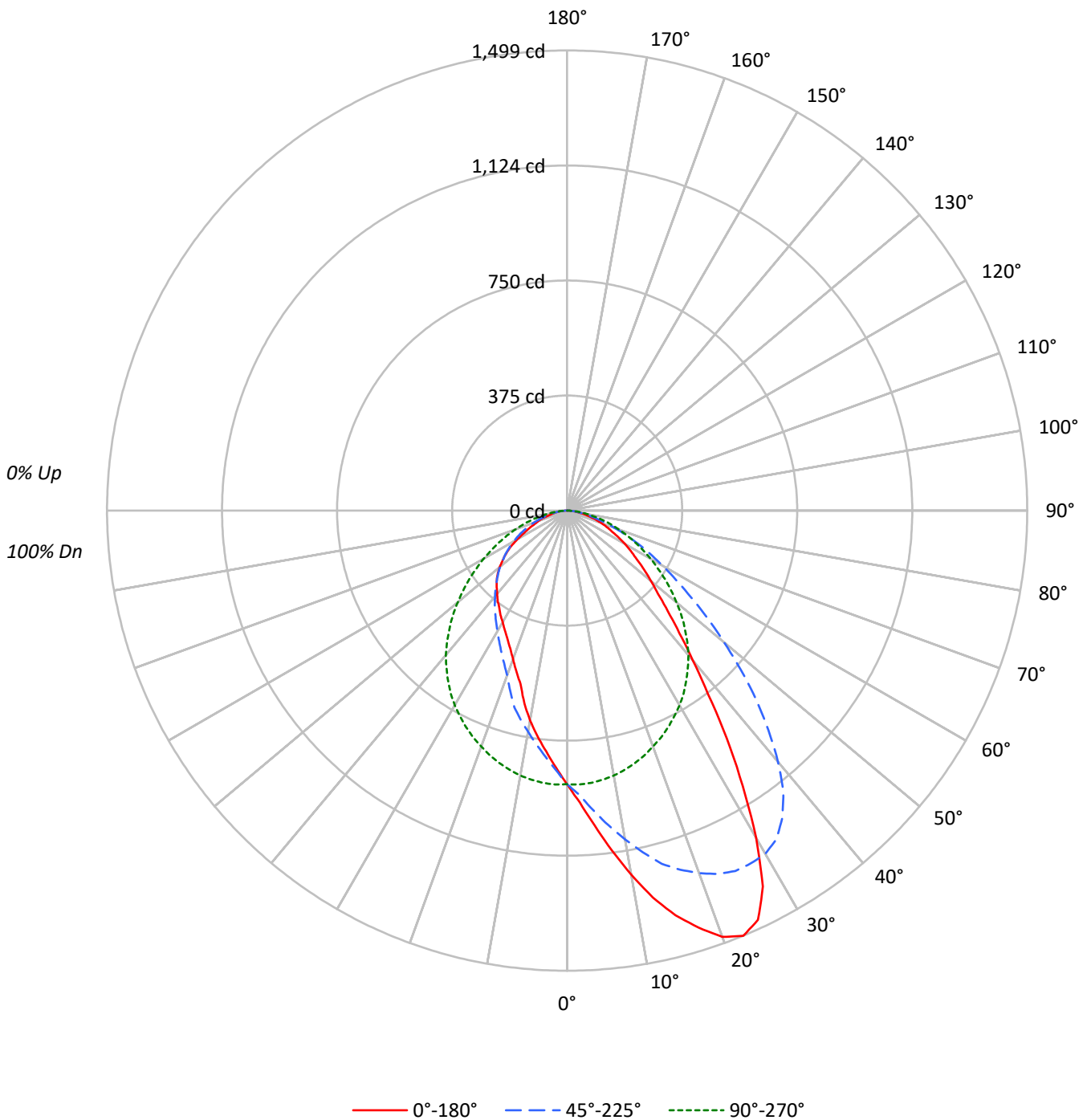
Lumens per Lamp: N/A
Luminaire Lumens: 2252.5 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.22 / 1.39
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76					74				
3	93	83	76	70	90	81	75	69	79	73	68	76	71	67	73	69	65					63				
4	85	74	66	60	83	73	65	59	71	64	59	68	63	58	66	61	57					55				
5	79	67	58	52	77	66	58	52	64	57	51	62	56	51	60	55	50					48				
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45					43				
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40					38				
8	64	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36					34				
9	59	47	39	33	58	46	38	33	45	38	33	44	38	33	43	37	33					31				
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7921	7921	7921	7921	7921
5°	9188	8745	7945	7188	7022
10°	10868	9819	7910	6607	6267
15°	12555	10962	7837	6106	5385
20°	13978	11886	7736	5399	4870
25°	14429	12704	7637	4976	4521
30°	12632	13251	7517	4662	4311
35°	9833	13257	7340	4425	4184
40°	7374	12402	7136	4236	4116
45°	5822	10944	6811	4075	4079
50°	4915	9210	6434	3937	3962
55°	4283	7634	6021	3789	3750
60°	3854	6389	5591	3573	3319
65°	3399	5323	5128	3330	2854
70°	3062	4254	4647	3004	2576
75°	2566	3304	4118	2638	2195
80°	2170	2498	3512	2186	2058
85°	1836	1979	2743	1938	1836

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 11688 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.3	3.8
10°-20°	260.6	11.6
20°-30°	408.1	18.1
30°-40°	453.2	20.1
40°-50°	401.6	17.8
50°-60°	313.0	13.9
60°-70°	204.7	9.1
70°-80°	100.4	4.5
80°-90°	24.5	1.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	755.0	33.5
0°-40°	1208.2	53.6
0°-60°	1922.9	85.4
0°-90°	2252.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2252.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	891	891	891	891	891	
5°	1030	980	890	806	787	104
15°	1364	1191	852	664	585	388
25°	1471	1295	779	507	461	657
35°	906	1222	676	408	386	567
45°	463	871	542	324	324	365
55°	276	493	388	244	242	251
65°	162	253	244	158	136	162
75°	75	96	120	77	64	82
85°	18	19	27	19	18	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	891.1	891.1	891.1	891.1	891.1	891.1	891.1	891.1	891.1	891.1	891.1
2.5°	952.1	952.1	952.1	951.7	948.2	947.1	945.6	941.0	932.4	927.3	928.4
5°	1029.7	1029.7	1033.6	1032.9	1025.0	1017.1	1012.1	1000.6	988.4	980.1	973.3
7.5°	1115.8	1115.8	1117.6	1113.7	1100.0	1095.7	1083.9	1070.2	1049.8	1034.3	1020.3
10°	1204.1	1204.1	1207.0	1197.7	1188.3	1169.3	1158.5	1137.4	1109.7	1087.8	1067.3
12.5°	1291.0	1291.0	1280.2	1283.1	1263.4	1249.4	1230.7	1202.7	1169.7	1139.9	1112.9
15°	1364.3	1364.3	1358.5	1351.3	1331.6	1310.8	1293.2	1265.2	1225.0	1191.2	1155.7
17.5°	1424.6	1424.6	1424.2	1405.9	1391.5	1370.4	1338.8	1306.8	1272.0	1226.8	1191.6
20°	1477.7	1477.7	1474.5	1463.0	1442.9	1419.9	1385.1	1349.5	1302.1	1256.5	1215.6
22.5°	1499.2	1499.2	1496.7	1487.8	1470.2	1447.9	1419.5	1383.3	1334.1	1281.3	1228.2
25°	1471.2	1471.2	1478.8	1476.3	1470.9	1457.2	1431.7	1394.8	1351.0	1295.3	1240.8
27.5°	1380.8	1380.8	1393.3	1401.2	1416.0	1421.3	1418.1	1393.3	1351.0	1296.0	1241.8
30°	1230.7	1230.7	1261.2	1291.7	1315.4	1337.0	1355.6	1360.7	1339.1	1291.0	1233.2
32.5°	1064.1	1064.1	1097.9	1131.3	1174.7	1214.9	1262.7	1288.1	1292.8	1268.8	1216.3
35°	906.2	906.2	934.9	969.3	1016.7	1070.9	1137.4	1189.1	1224.2	1221.7	1189.1
37.5°	754.6	754.6	786.6	815.0	861.6	930.9	993.8	1063.0	1126.2	1157.1	1140.6
40°	635.5	635.5	657.0	686.4	729.5	788.0	858.0	937.0	1009.5	1068.8	1080.3
42.5°	541.4	541.4	553.6	585.9	613.9	668.1	734.2	812.4	900.4	971.1	1006.3
45°	463.1	463.1	477.8	496.9	521.3	568.0	621.5	694.3	789.5	870.6	921.2
47.5°	401.4	401.4	413.9	431.2	451.3	484.0	529.5	597.8	676.7	766.9	836.9
50°	355.4	355.4	365.5	374.1	391.0	415.7	454.5	509.1	580.2	666.0	746.0
52.5°	315.9	315.9	320.2	331.7	344.7	362.6	392.0	440.5	501.5	576.2	659.5
55°	276.4	276.4	282.5	291.2	301.6	315.2	340.0	377.3	426.9	492.6	567.6
57.5°	246.3	246.3	251.3	254.5	264.6	274.6	294.8	321.7	365.1	420.0	493.6
60°	216.8	216.8	218.3	223.7	231.2	240.5	253.1	275.0	310.2	359.4	414.7
62.5°	188.1	188.1	190.6	194.2	199.6	205.4	218.6	235.2	262.8	303.0	351.5
65°	161.6	161.6	164.4	165.9	170.5	176.3	186.0	197.8	217.9	253.1	290.8
67.5°	139.3	139.3	139.3	141.5	145.0	149.0	155.5	165.5	181.7	204.3	239.5
70°	117.8	117.8	118.5	119.6	121.3	124.6	127.8	135.0	146.1	163.7	189.2
72.5°	97.7	97.7	98.7	98.7	99.4	102.0	104.1	108.1	115.6	127.8	147.2
75°	74.7	74.7	77.5	79.0	80.8	80.4	82.9	85.8	88.3	96.2	108.1
77.5°	58.9	58.9	58.2	59.6	60.0	60.3	62.1	64.6	66.8	71.1	75.4
80°	42.4	42.4	43.4	43.8	43.4	43.8	45.6	46.7	47.4	48.8	52.8
82.5°	29.4	29.4	29.4	29.8	30.2	30.5	32.0	32.0	32.7	33.0	34.1
85°	18.0	18.0	18.7	18.0	18.0	18.0	18.7	19.0	19.7	19.4	20.1
87.5°	7.9	7.9	7.9	7.9	8.3	7.9	8.3	9.0	8.3	8.6	8.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	891.1	891.1	891.1	891.1	891.1	891.1	891.1	891.1	891.1	891.1	891.1
2.5°	924.8	919.8	917.3	911.5	904.7	901.1	897.9	893.2	887.1	880.7	876.0
5°	964.7	956.1	945.3	932.4	920.9	909.7	900.0	890.4	879.2	867.7	856.2
7.5°	1004.2	988.7	972.2	952.5	933.4	915.8	900.0	884.6	867.0	851.2	836.5
10°	1045.8	1022.8	997.3	970.4	943.5	920.2	897.2	876.4	853.4	832.9	815.7
12.5°	1079.6	1051.6	1019.6	984.4	950.7	921.2	893.9	865.2	838.3	815.7	791.3
15°	1117.6	1080.6	1039.3	999.1	957.1	918.7	883.2	851.6	821.8	790.5	768.6
17.5°	1143.8	1101.1	1052.3	1005.6	957.5	913.0	872.8	836.1	802.0	770.8	745.0
20°	1166.8	1118.3	1062.7	1007.8	952.1	903.6	859.5	817.8	782.3	747.8	720.9
22.5°	1179.7	1124.8	1062.7	1004.5	946.4	892.9	843.3	799.5	760.0	725.6	695.1
25°	1180.4	1123.0	1060.9	994.8	931.6	876.0	825.7	778.7	735.6	701.2	669.6
27.5°	1177.6	1111.1	1048.7	981.5	916.6	857.3	805.3	755.4	712.6	676.0	643.7
30°	1169.0	1096.4	1028.2	957.9	891.8	835.4	779.8	732.4	687.5	649.1	616.4
32.5°	1150.3	1078.5	1003.8	931.3	864.1	805.6	753.6	705.8	662.0	622.5	587.3
35°	1124.4	1051.6	971.9	897.9	832.2	771.9	722.3	676.4	634.4	592.4	555.8
37.5°	1094.6	1018.5	939.9	858.8	793.4	736.0	689.7	645.5	604.6	566.2	525.6
40°	1048.7	980.8	899.0	818.6	751.1	696.1	654.1	615.0	573.7	535.6	495.1
42.5°	993.0	937.7	854.8	774.0	707.6	655.2	616.8	578.7	542.1	505.5	462.8
45°	929.8	886.0	808.5	731.0	663.8	611.4	575.5	541.8	508.7	473.5	433.7
47.5°	859.5	827.2	759.7	678.5	615.7	567.6	533.1	505.1	476.1	440.5	404.6
50°	785.5	766.5	701.9	629.4	570.1	526.7	491.1	465.3	441.9	408.2	377.0
52.5°	706.5	698.6	646.6	578.0	521.3	478.9	449.8	427.2	403.5	377.0	348.2
55°	626.1	631.5	585.2	525.2	471.4	435.5	407.8	388.5	368.3	344.7	322.0
57.5°	542.5	562.9	528.5	474.3	422.2	388.5	367.3	350.0	333.2	313.1	292.6
60°	468.9	485.4	467.8	421.5	377.3	346.4	327.1	314.5	297.6	279.7	265.0
62.5°	397.1	415.0	406.4	371.2	331.0	305.5	289.0	277.5	266.0	251.0	235.5
65°	339.3	350.8	345.7	319.9	290.8	268.2	252.4	243.8	232.3	220.8	207.2
67.5°	271.4	294.0	290.4	276.1	248.1	230.1	219.0	211.1	200.3	191.7	182.0
70°	213.6	234.1	233.7	222.6	208.9	192.4	185.3	178.8	169.5	161.2	153.7
72.5°	165.1	183.5	187.0	179.1	170.9	159.4	152.6	148.6	139.7	134.6	128.9
75°	122.4	136.1	139.7	139.7	135.3	128.9	122.8	119.9	113.4	108.4	104.8
77.5°	86.2	95.5	100.9	102.0	102.3	99.8	94.1	91.9	86.9	85.1	81.1
80°	56.7	62.5	68.9	71.1	72.9	72.2	70.0	68.6	63.9	62.1	60.7
82.5°	34.8	37.3	42.4	47.7	46.7	49.2	47.4	46.3	43.1	42.7	41.3
85°	20.5	20.8	21.5	24.8	26.6	27.3	27.6	26.9	25.8	25.8	23.3
87.5°	8.6	8.3	9.0	9.0	9.3	10.8	11.8	12.2	11.1	10.1	9.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	891.1	891.1	891.1	891.1	891.1	891.1	891.1	891.1	891.1	891.1	891.1
2.5°	871.0	867.4	862.7	857.3	850.9	845.1	842.6	844.8	845.8	843.0	842.6
5°	848.4	839.4	832.2	821.4	812.8	805.6	800.6	798.4	799.2	793.4	792.0
7.5°	823.2	813.5	801.7	789.5	778.0	767.9	762.5	760.0	753.9	751.4	747.5
10°	799.2	784.8	773.3	758.2	744.6	732.0	725.9	720.9	714.8	711.9	705.8
12.5°	774.4	757.2	744.2	728.4	714.4	698.6	692.9	682.5	672.1	665.3	657.0
15°	751.4	731.3	715.9	697.2	680.7	663.5	648.0	630.8	624.3	610.7	602.8
17.5°	724.1	703.3	686.1	662.0	637.3	616.4	599.2	581.2	571.6	562.2	558.3
20°	697.2	678.5	652.0	622.9	594.5	570.8	557.5	546.8	536.0	529.9	525.6
22.5°	671.7	646.6	614.6	582.7	554.3	537.1	526.3	515.2	506.9	501.2	495.1
25°	642.6	611.4	578.7	542.8	523.4	507.3	495.1	486.1	480.7	473.2	470.3
27.5°	614.3	576.6	539.6	515.2	495.1	479.6	468.5	462.1	454.9	449.8	445.9
30°	580.5	542.1	509.8	486.8	466.4	454.2	445.5	437.6	432.3	428.3	425.4
32.5°	547.1	508.7	482.9	457.7	442.7	430.8	421.5	416.1	412.1	406.8	405.3
35°	515.2	481.1	457.4	435.1	418.6	407.8	400.7	394.6	391.0	389.5	388.5
37.5°	484.0	455.6	429.4	411.4	396.0	387.7	378.4	375.5	373.0	369.8	371.2
40°	454.5	428.3	405.7	386.3	374.5	365.1	360.1	356.5	354.3	354.3	354.3
42.5°	429.0	403.5	381.6	364.8	352.9	345.4	339.6	336.8	336.4	336.0	338.2
45°	402.5	378.8	356.5	342.1	332.1	324.2	321.0	318.4	318.4	319.9	320.2
47.5°	375.9	353.6	335.7	319.2	309.8	304.8	301.9	300.5	300.5	302.3	303.7
50°	351.8	329.9	312.3	298.0	289.4	284.7	282.2	281.5	282.2	282.2	284.7
52.5°	325.6	306.6	289.4	277.9	267.8	263.5	262.4	261.4	261.7	263.2	263.9
55°	300.1	282.5	266.0	254.5	247.4	244.5	241.3	241.6	240.9	241.6	241.6
57.5°	274.3	258.8	242.7	233.4	227.3	222.9	219.4	220.4	219.4	219.4	219.0
60°	249.5	232.3	220.1	211.8	204.6	201.0	197.8	198.5	197.5	196.7	195.3
62.5°	222.6	208.9	197.5	189.6	184.2	179.9	176.6	175.6	172.7	169.8	166.2
65°	196.7	184.9	174.5	166.9	161.6	158.3	155.8	153.7	148.3	142.5	139.7
67.5°	171.2	162.6	152.6	146.1	141.8	137.5	132.8	128.9	123.5	119.9	118.1
70°	146.8	138.6	130.3	124.2	119.6	115.6	110.2	107.7	104.1	102.7	100.9
72.5°	123.5	116.0	108.4	103.0	98.0	95.1	91.2	88.7	87.6	87.2	85.4
75°	99.8	93.7	88.0	82.9	79.0	76.8	75.0	73.2	72.5	69.3	67.5
77.5°	76.8	72.5	68.9	65.0	62.5	61.0	57.1	54.6	53.1	51.3	51.0
80°	56.7	53.9	50.3	48.1	44.2	42.7	41.3	40.9	40.6	40.2	39.9
82.5°	39.1	36.3	32.7	31.6	31.2	30.5	29.8	29.4	29.1	29.4	29.4
85°	21.5	20.1	20.1	19.7	19.4	19.0	18.7	18.7	18.3	18.7	18.3
87.5°	9.0	8.6	8.6	7.9	8.3	8.3	7.9	7.9	8.3	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P242742

CATALOG NUMBER: S124RDRP-S575D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	891.1	891.1	891.1	891.1
2.5°	840.5	841.2	838.7	837.9
5°	789.1	788.4	786.6	787.0
7.5°	744.6	742.1	743.9	741.0
10°	704.4	700.4	697.2	694.3
12.5°	649.5	646.2	641.6	643.4
15°	598.1	592.7	584.1	585.2
17.5°	552.2	552.9	547.9	549.3
20°	518.1	515.5	515.9	514.8
22.5°	494.4	491.1	487.9	485.4
25°	467.1	464.9	461.7	461.0
27.5°	443.0	442.7	441.2	439.4
30°	422.6	421.8	421.1	420.0
32.5°	404.3	403.9	403.2	403.5
35°	387.0	386.7	385.9	385.6
37.5°	370.9	371.9	371.2	371.2
40°	354.0	354.3	355.1	354.7
42.5°	340.0	340.0	341.1	339.6
45°	322.8	324.9	324.5	324.5
47.5°	304.4	307.0	307.3	307.3
50°	286.5	285.8	286.9	286.5
52.5°	264.6	265.0	264.6	264.2
55°	242.0	242.3	241.6	242.0
57.5°	217.9	216.5	217.6	216.8
60°	191.7	188.8	188.1	186.7
62.5°	162.3	160.5	157.6	159.4
65°	136.8	135.3	134.3	135.7
67.5°	116.3	115.6	115.6	114.9
70°	100.9	99.8	99.8	99.1
72.5°	85.1	84.0	84.4	84.0
75°	65.3	63.5	63.5	63.9
77.5°	51.0	50.6	51.3	50.3
80°	39.9	39.5	39.1	40.2
82.5°	28.7	28.7	28.7	30.2
85°	18.7	18.0	18.7	18.0
87.5°	8.3	7.9	7.5	7.9
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242742
 CATALOG NUMBER: S124RDRP-S575D835-X4F0-XX-UDD-A-W

CIE UGR TABLE:

Reflectances:											
Ceiling		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	16.29	17.81	16.66	18.13	18.44	18.11	19.63	18.47	19.95	20.26
	3H	17.52	18.88	17.90	19.21	19.57	19.56	20.93	19.94	21.26	21.62
	4H	17.95	19.23	18.35	19.58	19.96	20.08	21.36	20.48	21.71	22.09
	6H	18.22	19.41	18.64	19.77	20.17	20.43	21.61	20.84	21.98	22.37
	8H	18.30	19.43	18.73	19.82	20.22	20.53	21.66	20.96	22.05	22.45
	12H	18.35	19.43	18.79	19.81	20.24	20.59	21.67	21.02	22.05	22.48
4H	2H	17.55	18.83	17.95	19.18	19.56	18.62	19.90	19.02	20.25	20.63
	3H	18.79	19.85	19.20	20.25	20.65	20.36	21.42	20.77	21.82	22.22
	4H	19.25	20.21	19.68	20.62	21.06	20.99	21.94	21.42	22.36	22.80
	6H	19.58	20.41	20.03	20.85	21.31	21.44	22.27	21.90	22.71	23.17
	8H	19.67	20.45	20.13	20.89	21.36	21.58	22.35	22.04	22.80	23.26
	12H	19.74	20.43	20.22	20.91	21.38	21.67	22.36	22.15	22.84	23.31
8H	4H	19.65	20.43	20.12	20.87	21.34	21.10	21.87	21.56	22.32	22.78
	6H	20.04	20.68	20.54	21.17	21.65	21.64	22.28	22.14	22.77	23.25
	8H	20.18	20.75	20.69	21.26	21.75	21.83	22.41	22.35	22.92	23.40
	12H	20.29	20.80	20.80	21.29	21.85	21.98	22.49	22.49	22.98	23.54
12H	4H	19.69	20.38	20.17	20.86	21.33	21.09	21.78	21.57	22.26	22.73
	6H	20.09	20.66	20.60	21.17	21.66	21.63	22.20	22.14	22.71	23.20
	8H	20.27	20.78	20.78	21.27	21.83	21.86	22.37	22.37	22.86	23.42