

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: P242925

Luminaire Tested: S125RDRP-S850D930-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242925
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-32)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S850D930-X4F0-XX-UDD-A-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

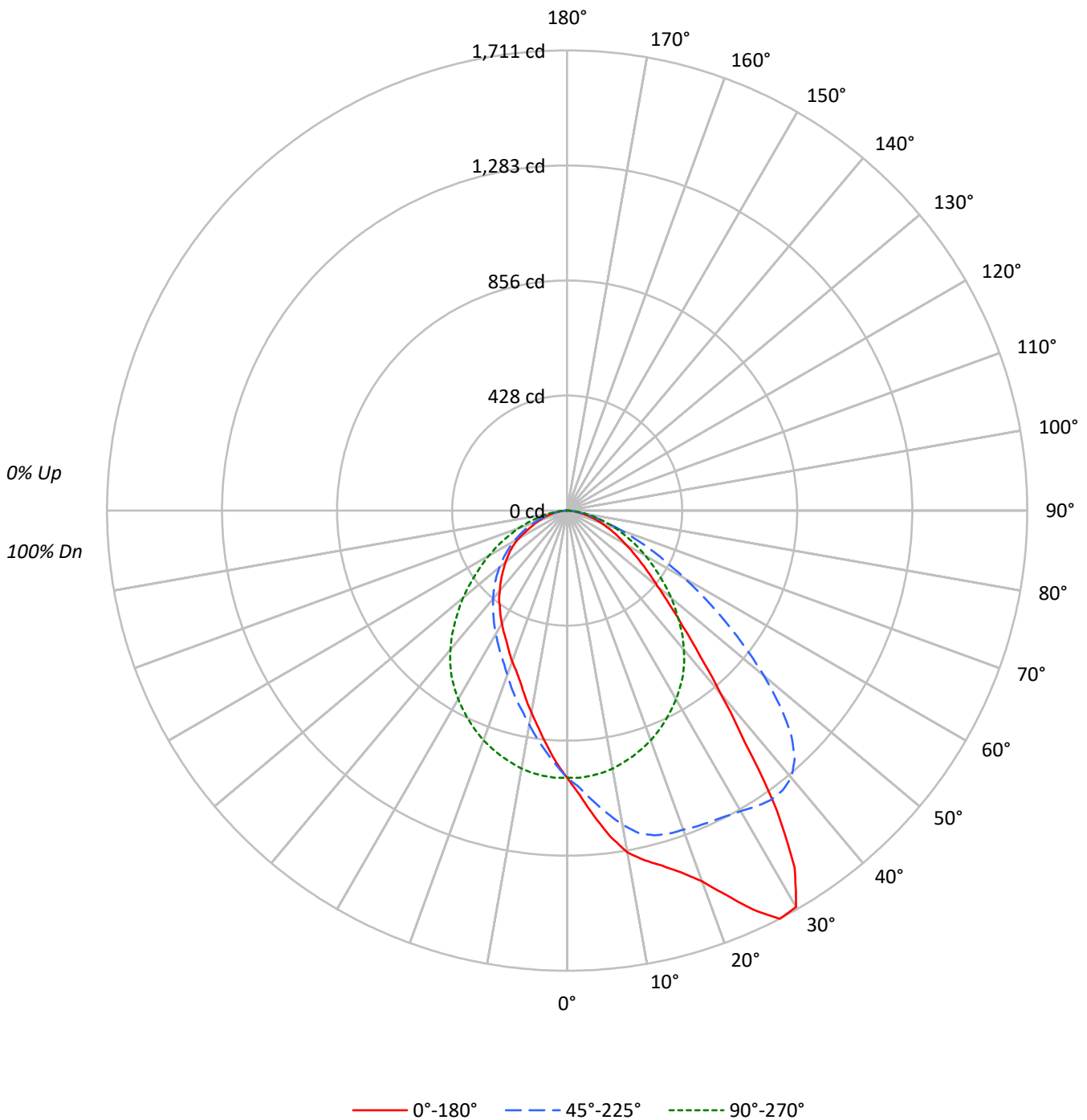
Lumens per Lamp: N/A
Luminaire Lumens: 2572.8 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.21 / 1.48
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 26.4
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	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65					63				
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57					55				
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50					48				
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44					42				
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39					37				
8	63	50	42	36	61	49	42	36	48	41	36	47	40	36	46	40	35					34				
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32					30				
10	55	42	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7058	7058	7058	7058	7058
5°	8120	7718	7067	6421	6241
10°	9314	8561	7031	5836	5507
15°	10060	9199	6959	5360	4895
20°	11093	9551	6875	4921	4520
25°	12837	9989	6764	4600	4194
30°	13970	10591	6648	4346	3981
35°	11784	11416	6511	4145	3785
40°	8230	12034	6266	3971	3616
45°	6105	11840	5936	3806	3450
50°	4867	10552	5594	3628	3308
55°	4131	8860	5167	3445	3182
60°	3569	7178	4786	3234	2978
65°	3180	5731	4374	2995	2565
70°	2795	4397	4006	2718	2338
75°	2417	3279	3471	2417	2194
80°	1834	2353	2918	2153	1834
85°	1533	1664	2291	1827	1729

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 11840 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	3.7
10°-20°	279.2	10.9
20°-30°	442.6	17.2
30°-40°	534.9	20.8
40°-50°	476.3	18.5
50°-60°	365.2	14.2
60°-70°	237.2	9.2
70°-80°	115.1	4.5
80°-90°	27.1	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°	817.0	31.8
0°-40°	1351.9	52.5
0°-60°	2193.4	85.3
0°-90°	2572.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2572.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	993	993	993	993	993	
5°	1138	1082	990	900	875	113
15°	1367	1250	946	728	665	391
25°	1637	1274	862	587	535	754
35°	1358	1316	750	478	436	823
45°	607	1178	591	379	343	482
55°	333	715	417	278	257	302
65°	189	341	260	178	152	188
75°	88	119	126	88	80	94
85°	19	20	28	22	21	22
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°	993.0	993.0	993.0	993.0	993.0	993.0	993.0	993.0	993.0	993.0	993.0
2.5°	1057.4	1056.6	1058.2	1053.7	1054.1	1047.2	1047.2	1041.9	1035.0	1029.7	1027.2
5°	1138.1	1138.9	1137.3	1131.2	1127.1	1121.0	1114.0	1101.8	1091.6	1081.8	1074.1
7.5°	1220.4	1221.2	1215.9	1214.7	1204.1	1197.6	1182.1	1166.2	1152.4	1134.0	1121.0
10°	1290.5	1290.1	1284.4	1279.9	1271.0	1259.6	1244.5	1224.9	1206.6	1186.2	1166.6
12.5°	1331.3	1330.1	1329.3	1323.6	1315.4	1305.6	1293.4	1274.2	1250.6	1227.8	1204.1
15°	1367.2	1364.3	1359.0	1352.1	1340.3	1328.5	1314.2	1297.1	1275.5	1250.2	1229.0
17.5°	1410.4	1410.8	1402.6	1395.3	1379.8	1360.2	1339.0	1313.0	1285.2	1259.6	1238.4
20°	1466.6	1465.4	1457.3	1438.5	1420.2	1394.1	1368.8	1335.0	1299.1	1262.8	1234.7
22.5°	1547.3	1543.7	1535.1	1509.0	1478.0	1442.6	1400.6	1357.4	1312.1	1269.8	1230.6
25°	1637.0	1634.6	1617.9	1589.3	1549.4	1497.6	1447.1	1390.4	1328.0	1273.8	1229.0
27.5°	1711.2	1706.3	1691.2	1664.3	1625.2	1569.4	1499.7	1426.3	1352.1	1280.8	1219.2
30°	1702.2	1708.4	1706.7	1695.7	1668.0	1619.1	1555.9	1470.7	1378.2	1290.5	1213.5
32.5°	1574.2	1579.5	1597.9	1627.6	1636.6	1624.4	1581.2	1504.1	1407.5	1304.8	1209.0
35°	1358.2	1365.5	1393.3	1436.9	1493.9	1541.6	1551.4	1509.0	1423.0	1315.8	1204.5
37.5°	1083.5	1131.2	1149.9	1194.3	1284.0	1370.8	1446.3	1463.4	1416.9	1313.4	1199.2
40°	887.0	896.8	938.4	990.1	1062.7	1154.0	1274.2	1361.1	1363.9	1297.1	1182.1
42.5°	727.2	740.2	765.5	804.2	863.8	955.1	1080.2	1201.7	1267.3	1252.2	1159.7
45°	607.4	616.7	637.5	669.3	717.0	792.4	899.2	1031.7	1136.9	1178.0	1116.1
47.5°	513.6	518.5	537.7	563.3	600.0	657.1	743.9	863.8	988.9	1072.5	1056.2
50°	440.2	445.9	459.8	478.1	507.9	554.4	620.4	716.2	846.2	954.3	975.9
52.5°	383.2	387.7	395.0	412.1	435.3	468.4	518.5	602.9	716.6	833.2	890.3
55°	333.4	336.7	343.6	353.4	373.0	398.7	444.7	504.6	599.2	715.0	788.3
57.5°	291.0	292.7	296.8	306.5	320.8	340.0	375.0	429.6	498.1	607.0	687.7
60°	251.1	252.7	258.4	264.5	275.1	292.3	318.4	353.8	419.0	505.0	587.0
62.5°	219.3	220.1	221.7	227.9	236.8	249.1	268.2	295.5	344.0	417.0	493.2
65°	189.1	189.5	190.4	195.3	201.0	210.7	224.2	244.6	283.7	340.8	409.3
67.5°	159.0	159.8	162.6	164.3	171.2	176.1	184.7	201.0	231.1	271.9	327.3
70°	134.5	134.1	137.0	139.0	141.0	147.2	152.5	165.1	182.2	211.6	256.0
72.5°	111.7	110.5	111.3	111.7	114.5	118.2	123.5	130.0	142.3	160.2	191.6
75°	88.0	88.5	88.5	89.3	91.3	92.9	94.6	98.6	106.0	119.4	137.8
77.5°	66.0	65.2	67.3	67.3	68.9	70.9	72.1	73.8	76.6	82.7	93.8
80°	44.8	44.8	45.2	46.5	46.1	46.9	48.9	50.5	54.2	57.5	60.7
82.5°	31.8	31.4	31.8	31.8	31.8	32.6	33.0	33.0	33.8	35.1	37.1
85°	18.8	18.8	19.2	19.2	19.6	19.6	20.0	20.0	20.0	20.4	20.8
87.5°	9.0	8.6	8.2	8.2	8.6	9.4	9.0	8.6	8.6	8.6	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	993.0	993.0	993.0	993.0	993.0	993.0	993.0	993.0	993.0	993.0	993.0
2.5°	1027.2	1024.4	1019.1	1014.2	1008.1	1002.8	999.1	994.6	988.9	982.0	976.3
5°	1065.5	1056.6	1044.7	1034.6	1021.5	1011.3	1000.7	990.5	980.3	967.3	955.9
7.5°	1107.9	1090.4	1074.1	1052.9	1033.7	1017.0	1000.7	984.0	968.1	950.2	933.5
10°	1146.2	1123.8	1099.0	1070.4	1044.3	1019.5	996.6	974.2	950.6	929.8	907.4
12.5°	1182.1	1151.5	1122.2	1084.3	1051.7	1019.9	989.3	960.0	934.3	905.7	881.3
15°	1200.9	1172.3	1140.5	1096.5	1052.9	1016.2	982.0	945.7	914.3	884.1	857.2
17.5°	1211.9	1181.7	1145.0	1102.2	1055.3	1009.7	966.5	927.8	891.9	857.2	827.5
20°	1207.0	1178.0	1140.1	1099.8	1048.8	1000.7	953.0	909.0	867.8	830.7	798.5
22.5°	1195.2	1165.0	1128.7	1085.5	1037.8	986.0	934.3	886.6	843.0	804.2	768.4
25°	1183.3	1142.6	1105.1	1063.5	1017.4	966.9	914.3	862.5	816.5	777.3	739.0
27.5°	1171.9	1122.6	1076.1	1036.2	986.9	941.2	889.8	836.4	788.3	748.8	709.7
30°	1155.2	1098.1	1045.6	998.7	952.6	909.8	861.7	810.0	760.2	719.1	679.1
32.5°	1134.4	1072.9	1013.8	957.9	913.9	871.5	829.1	780.2	732.1	689.3	648.5
35°	1117.7	1040.3	977.5	920.0	870.7	829.5	790.4	750.4	701.9	657.9	618.4
37.5°	1094.5	1009.3	938.4	875.6	824.2	783.5	752.1	714.2	668.9	626.1	589.4
40°	1073.7	975.0	895.6	833.6	779.0	735.4	706.4	675.4	635.1	595.5	558.9
42.5°	1046.0	943.7	852.3	787.1	732.1	690.5	661.2	635.1	602.9	566.2	526.2
45°	1008.1	901.3	807.9	738.6	683.2	642.0	614.7	590.6	565.0	530.7	496.5
47.5°	962.8	860.9	762.7	686.4	633.0	594.3	567.4	547.4	528.7	498.9	464.3
50°	906.2	808.7	713.3	640.0	582.1	545.8	520.9	505.9	489.2	462.7	434.9
52.5°	839.3	754.9	662.0	586.6	532.8	499.3	475.7	460.6	447.6	427.2	401.1
55°	768.4	692.1	606.5	538.5	488.3	454.1	431.3	417.0	408.8	390.5	369.7
57.5°	688.1	629.4	551.9	485.5	440.2	406.0	388.9	376.2	366.9	353.4	337.9
60°	603.3	565.0	497.3	434.9	394.2	362.0	346.9	336.7	328.1	317.1	305.7
62.5°	517.3	492.0	435.3	384.0	347.3	321.6	307.8	298.8	288.6	282.1	271.1
65°	442.3	417.4	376.6	334.7	300.0	278.4	268.2	260.1	254.0	245.8	238.1
67.5°	359.1	347.7	317.5	286.2	260.9	240.1	231.1	224.6	217.7	212.8	207.1
70°	283.7	278.8	258.8	239.7	216.4	203.4	195.3	192.8	183.8	178.9	175.3
72.5°	216.9	215.2	205.9	194.0	179.4	168.3	161.0	158.2	153.3	149.6	147.6
75°	157.8	158.6	156.5	148.0	141.9	134.5	128.0	126.4	122.3	119.0	117.0
77.5°	107.6	111.7	110.9	110.5	107.6	102.3	99.5	98.2	93.8	92.5	92.1
80°	68.5	73.0	77.0	76.6	75.8	74.6	72.6	71.3	69.3	68.1	67.3
82.5°	39.9	44.0	47.3	50.1	50.1	48.9	47.7	47.3	47.3	46.5	46.5
85°	21.6	22.4	23.6	26.5	28.5	28.9	28.5	28.1	26.9	27.3	27.7
87.5°	9.4	9.4	9.8	9.8	9.4	11.4	12.6	13.0	12.2	11.4	10.6
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	993.0	993.0	993.0	993.0	993.0	993.0	993.0	993.0	993.0	993.0	993.0
2.5°	972.2	966.5	962.4	954.3	948.5	946.1	941.6	940.4	944.9	941.6	941.2
5°	947.3	935.5	926.1	916.7	906.6	900.0	890.3	888.6	886.2	882.5	881.7
7.5°	918.4	903.7	892.7	877.2	864.6	854.4	842.2	837.3	834.8	830.3	823.0
10°	889.0	870.7	854.4	838.9	822.2	808.7	796.5	787.1	781.0	775.3	772.9
12.5°	860.1	841.3	819.3	799.8	780.6	765.1	751.3	746.0	739.0	732.1	725.6
15°	829.9	805.1	782.2	760.6	744.7	728.4	715.4	706.4	696.2	693.4	682.4
17.5°	797.7	774.5	747.6	724.4	706.4	689.3	675.0	664.4	656.7	645.7	640.4
20°	768.0	739.0	712.9	692.1	671.8	650.6	635.9	627.3	620.0	611.4	607.4
22.5°	736.2	708.0	681.1	655.9	635.1	614.3	604.9	595.9	587.4	579.6	573.9
25°	705.2	676.7	648.5	623.3	601.7	586.6	574.3	564.2	559.7	551.9	546.2
27.5°	674.2	644.0	615.5	589.0	572.3	557.2	547.4	539.3	530.7	523.8	518.5
30°	644.5	613.5	581.7	561.7	543.8	529.5	518.5	510.8	504.6	498.5	494.9
32.5°	614.7	582.5	555.2	533.2	516.5	504.6	493.2	485.9	479.4	472.4	468.0
35°	582.5	549.9	527.1	505.9	489.2	477.7	470.0	459.4	454.1	449.2	444.7
37.5°	553.6	522.6	497.3	479.0	463.5	452.5	442.3	437.0	430.0	426.0	422.3
40°	520.9	493.2	470.8	451.2	440.6	428.0	418.6	411.3	406.4	400.7	396.6
42.5°	491.6	466.3	444.7	427.6	413.7	403.5	394.6	387.2	380.7	377.1	373.8
45°	464.3	438.6	417.4	401.1	388.9	378.7	369.3	365.6	357.5	352.6	351.0
47.5°	435.8	412.5	391.7	376.6	364.0	354.6	345.7	337.5	333.4	328.5	326.1
50°	406.8	384.8	365.6	351.0	338.7	328.1	320.0	315.1	309.0	304.5	301.2
52.5°	377.9	357.9	338.7	324.9	314.7	304.1	294.7	289.8	284.1	281.7	279.6
55°	350.6	329.0	312.6	298.8	287.8	278.0	269.4	264.5	260.9	258.0	257.2
57.5°	319.2	301.6	286.2	273.9	262.1	252.7	245.0	240.5	237.2	236.8	234.0
60°	288.6	273.1	259.2	245.8	236.0	227.5	220.9	215.6	212.4	212.0	211.1
62.5°	258.0	243.4	230.7	219.3	210.7	202.6	196.5	190.4	188.7	186.3	184.2
65°	227.9	214.4	203.8	194.4	185.1	178.1	172.0	168.3	163.9	161.4	156.9
67.5°	198.1	187.1	176.9	169.2	161.4	154.5	149.2	143.9	140.6	138.6	134.9
70°	168.8	160.6	150.4	141.9	136.1	130.8	126.8	120.7	118.6	117.0	115.4
72.5°	141.0	134.1	126.0	119.4	113.7	108.8	103.9	101.9	99.9	98.2	97.4
75°	115.4	108.4	101.1	96.2	92.1	88.0	85.6	83.6	82.7	82.3	80.7
77.5°	89.7	85.6	79.5	75.0	72.1	70.5	68.1	67.3	67.7	65.6	65.2
80°	64.8	62.8	57.9	56.3	54.2	52.6	51.4	49.3	47.3	46.5	45.2
82.5°	44.0	42.0	40.8	37.9	36.3	35.5	34.2	33.8	34.6	33.4	33.0
85°	25.7	23.6	22.8	22.4	21.6	22.4	22.0	21.6	21.2	20.8	21.2
87.5°	10.2	10.2	9.8	10.6	9.4	9.8	9.8	9.4	9.4	9.4	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



TEST NUMBER: P242925

CATALOG NUMBER: S125RDRP-S850D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	993.0	993.0	993.0	993.0
2.5°	940.8	936.3	935.1	936.7
5°	877.6	873.5	875.6	874.8
7.5°	824.2	818.9	812.8	814.4
10°	767.6	763.5	761.0	763.1
12.5°	719.9	717.8	715.8	714.2
15°	677.5	672.6	670.5	665.2
17.5°	636.7	635.1	629.8	626.1
20°	601.2	599.6	594.3	597.6
22.5°	571.9	567.8	567.0	565.0
25°	544.6	539.3	537.3	534.8
27.5°	516.9	514.0	511.2	510.3
30°	490.0	487.1	485.1	485.1
32.5°	465.9	463.9	461.8	461.4
35°	442.7	439.4	438.6	436.2
37.5°	418.2	415.4	415.4	415.8
40°	395.0	393.0	392.5	389.7
42.5°	370.1	369.3	367.7	366.9
45°	348.1	345.3	345.3	343.2
47.5°	324.9	322.4	322.8	320.4
50°	301.6	300.4	300.0	299.2
52.5°	278.4	278.0	280.0	278.0
55°	258.0	256.8	259.2	256.8
57.5°	234.0	233.2	235.6	234.0
60°	210.3	207.9	209.1	209.5
62.5°	182.2	181.0	181.8	179.4
65°	156.1	154.9	153.3	152.5
67.5°	135.7	132.1	132.1	132.9
70°	112.9	112.9	112.5	112.5
72.5°	97.0	96.6	95.8	95.4
75°	80.7	81.1	80.3	79.9
77.5°	63.2	61.1	62.0	61.1
80°	45.2	44.8	46.1	44.8
82.5°	33.4	33.0	33.4	32.6
85°	21.6	21.2	20.8	21.2
87.5°	9.4	9.0	9.0	9.0
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242925
 CATALOG NUMBER: S125RDRP-S850D930-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	16.41	17.95	16.78	18.26	18.58	17.39	18.93	17.76	19.24	19.55
	3H	17.54	18.92	17.92	19.25	19.61	18.87	20.25	19.25	20.57	20.94
	4H	17.93	19.22	18.33	19.57	19.94	19.38	20.67	19.78	21.02	21.40
	6H	18.16	19.35	18.57	19.72	20.11	19.73	20.92	20.14	21.29	21.68
	8H	18.21	19.35	18.64	19.74	20.14	19.83	20.96	20.26	21.35	21.75
	12H	18.25	19.33	18.68	19.72	20.14	19.88	20.97	20.31	21.35	21.78
4H	2H	18.00	19.29	18.40	19.64	20.02	18.24	19.53	18.64	19.88	20.26
	3H	19.07	20.14	19.48	20.54	20.94	19.90	20.97	20.31	21.37	21.77
	4H	19.45	20.42	19.89	20.83	21.27	20.49	21.45	20.92	21.87	22.30
	6H	19.71	20.55	20.17	20.99	21.45	20.92	21.75	21.37	22.20	22.65
	8H	19.77	20.55	20.23	21.00	21.46	21.04	21.82	21.50	22.26	22.73
	12H	19.82	20.51	20.30	20.99	21.46	21.12	21.82	21.60	22.30	22.77
8H	4H	19.83	20.61	20.29	21.05	21.52	20.64	21.42	21.10	21.86	22.33
	6H	20.13	20.78	20.63	21.27	21.75	21.15	21.80	21.65	22.29	22.77
	8H	20.22	20.80	20.74	21.31	21.80	21.33	21.91	21.84	22.42	22.90
	12H	20.30	20.82	20.81	21.31	21.87	21.46	21.98	21.97	22.47	23.03
12H	4H	19.85	20.55	20.33	21.03	21.50	20.63	21.32	21.11	21.80	22.27
	6H	20.17	20.75	20.68	21.26	21.74	21.14	21.72	21.66	22.23	22.72
	8H	20.30	20.81	20.81	21.30	21.87	21.36	21.87	21.87	22.36	22.93