

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: P242807

Luminaire Tested: S125DRP-S850D830-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242807
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DRP-S850D830-X4F0-XX-UDD-A-W
Description: DEFINE 5 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

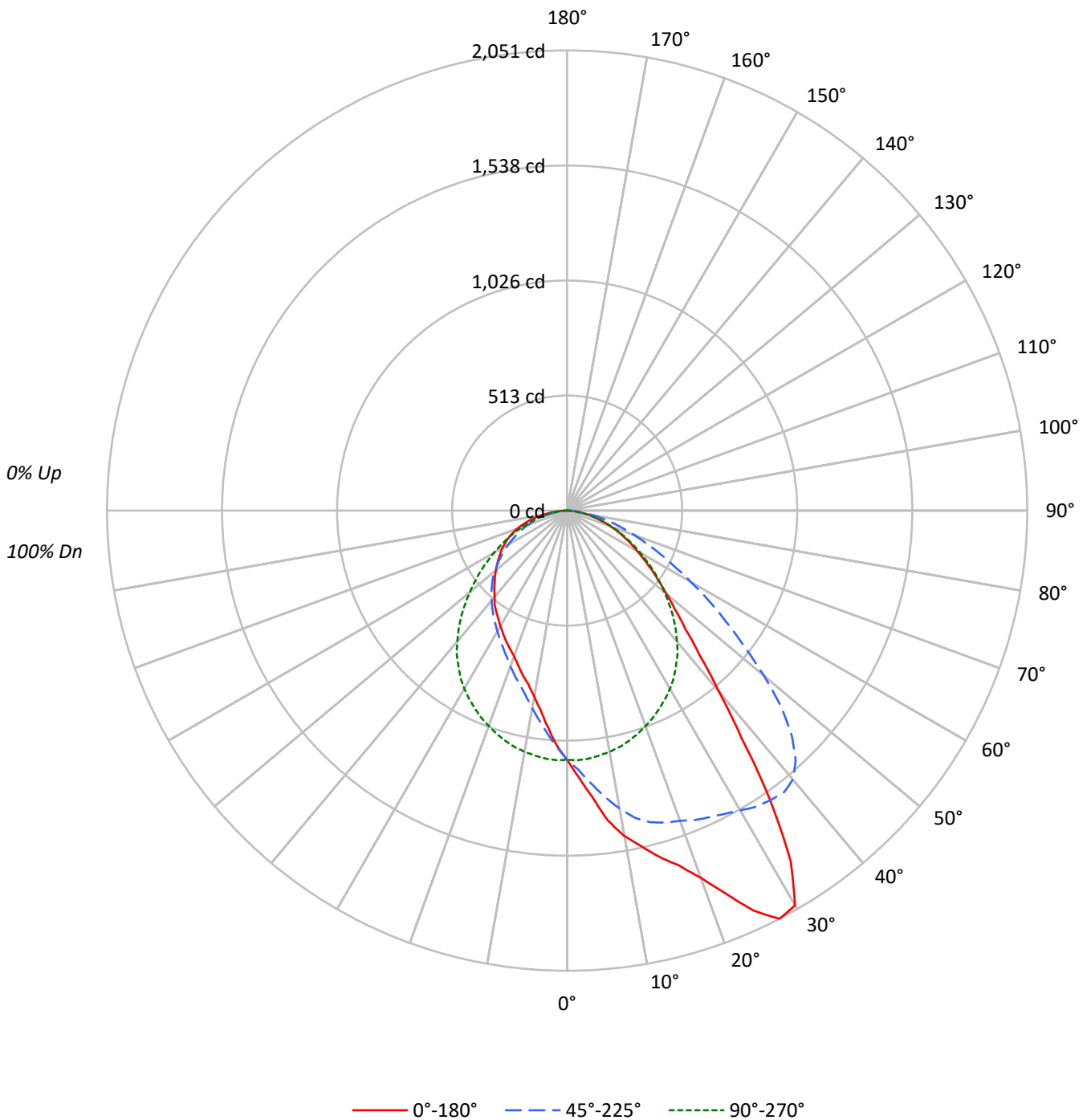
Lumens per Lamp: N/A
Luminaire Lumens: 3133.2 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.53
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	98	90	84	79	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61					61			
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53					53			
5	78	65	56	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46					46			
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41					41			
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	36					36			
8	62	49	41	35	61	48	40	35	47	40	34	46	39	34	44	39	34	32					32			
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29					29			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7891	7891	7891	7891	7891
5°	9139	8705	7918	7121	6933
10°	10631	9734	7877	6452	6075
15°	11768	10579	7819	5929	5603
20°	13173	11127	7728	5585	5226
25°	15432	11822	7624	5296	5041
30°	16669	12662	7522	5101	4881
35°	13705	13677	7331	4968	4776
40°	9741	14525	7065	4858	4661
45°	7484	14215	6707	4760	4594
50°	6389	12646	6263	4643	4585
55°	5688	10738	5828	4473	4624
60°	5132	9070	5352	4314	4742
65°	4739	7728	4874	4097	4865
70°	4308	6571	4376	3819	4935
75°	3803	5616	3855	3520	4891
80°	3201	4609	3143	2988	4474
85°	2536	3343	2267	2463	3613

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 14215 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.9	3.4
10°-20°	318.3	10.2
20°-30°	517.0	16.5
30°-40°	631.8	20.2
40°-50°	573.2	18.3
50°-60°	456.6	14.6
60°-70°	318.0	10.1
70°-80°	169.4	5.4
80°-90°	42.0	1.3
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°	942.2	30.1
0°-40°	1574.0	50.2
0°-60°	2603.8	83.1
0°-90°	3133.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3133.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1110	1110	1110	1110	1110	
5°	1281	1220	1110	998	972	129
15°	1599	1438	1063	806	762	457
25°	1968	1508	972	675	643	902
35°	1580	1576	845	573	550	969
45°	745	1414	667	474	457	592
55°	459	867	470	361	373	413
65°	282	460	290	244	289	280
75°	138	204	140	128	178	149
85°	31	41	28	30	44	36
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°	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3
2.5°	1190.4	1188.5	1186.6	1182.8	1185.7	1177.7	1173.9	1167.3	1159.3	1156.4	1153.1
5°	1280.9	1283.2	1285.6	1275.7	1276.6	1270.0	1254.9	1242.7	1232.8	1220.1	1211.1
7.5°	1393.0	1385.9	1386.4	1380.3	1369.4	1360.5	1345.9	1325.6	1307.2	1286.5	1268.6
10°	1473.1	1473.6	1469.4	1461.8	1450.0	1441.6	1420.8	1401.0	1377.0	1348.7	1328.5
12.5°	1533.4	1535.8	1530.1	1519.3	1515.1	1493.4	1478.3	1453.8	1424.1	1402.9	1369.4
15°	1599.4	1594.2	1590.5	1577.7	1567.8	1548.1	1522.1	1497.6	1466.5	1437.8	1409.0
17.5°	1657.9	1662.1	1656.0	1646.5	1617.3	1594.2	1562.2	1531.1	1493.9	1458.0	1424.6
20°	1741.7	1745.5	1734.7	1714.4	1677.6	1654.6	1608.8	1565.5	1520.7	1471.2	1433.5
22.5°	1846.4	1841.6	1826.1	1792.6	1762.0	1714.4	1664.0	1608.8	1549.9	1492.4	1439.2
25°	1967.9	1948.1	1939.2	1901.0	1859.1	1796.4	1728.5	1651.3	1581.5	1507.5	1443.4
27.5°	2050.9	2042.9	2030.1	1999.0	1951.0	1879.8	1799.7	1707.3	1613.6	1523.1	1442.5
30°	2031.1	2032.0	2033.0	2024.5	1996.2	1945.8	1866.1	1764.8	1648.0	1542.9	1445.8
32.5°	1855.8	1877.0	1897.2	1923.6	1940.6	1941.1	1898.7	1809.6	1688.5	1565.5	1443.9
35°	1579.6	1584.8	1638.1	1690.8	1762.5	1818.1	1855.3	1814.8	1713.5	1576.3	1442.5
37.5°	1277.1	1303.0	1343.1	1402.4	1509.9	1597.5	1712.5	1752.1	1704.5	1585.3	1442.0
40°	1049.9	1073.5	1097.5	1158.3	1245.5	1357.7	1492.9	1608.4	1635.2	1565.5	1427.9
42.5°	874.6	892.1	919.4	961.3	1030.6	1126.8	1254.5	1414.2	1523.5	1508.0	1398.2
45°	744.6	756.4	777.1	813.4	866.2	943.9	1058.0	1222.9	1366.6	1414.2	1347.8
47.5°	652.2	652.7	669.6	695.6	735.6	807.2	892.5	1028.3	1183.3	1293.1	1277.6
50°	577.8	575.4	588.1	609.8	640.0	683.8	764.4	867.6	1015.1	1143.7	1179.5
52.5°	513.7	514.6	521.2	535.8	559.8	595.7	650.8	741.3	861.9	994.8	1070.2
55°	459.0	457.1	466.1	476.9	495.3	519.8	563.1	634.3	736.6	866.6	954.3
57.5°	406.2	411.4	415.2	422.7	438.7	455.7	494.3	549.0	633.4	748.8	841.7
60°	361.0	366.2	369.0	376.5	388.8	402.9	431.2	473.6	541.9	638.1	730.0
62.5°	320.4	324.2	324.7	331.3	340.7	354.4	375.1	409.0	459.5	540.5	630.1
65°	281.8	281.8	283.7	290.8	295.5	307.7	324.7	350.6	394.0	459.5	536.3
67.5°	244.1	246.5	246.0	249.3	253.5	263.9	276.6	298.3	332.7	382.2	445.8
70°	207.3	209.2	208.8	211.1	215.8	222.0	231.9	252.1	275.2	316.2	369.0
72.5°	174.4	174.8	173.4	176.7	179.1	184.3	195.6	204.1	225.3	258.2	299.2
75°	138.5	139.5	140.4	142.3	145.1	148.0	153.6	164.5	178.6	204.5	232.3
77.5°	110.3	107.9	110.7	110.3	111.7	114.0	119.2	125.4	137.6	155.0	178.1
80°	78.2	78.7	78.7	79.2	81.5	82.9	87.2	91.4	100.4	112.6	127.7
82.5°	51.8	53.3	52.3	53.3	55.1	56.1	58.0	61.3	65.5	74.5	84.4
85°	31.1	28.7	29.7	30.6	30.6	31.1	33.0	34.4	37.2	41.0	45.2
87.5°	11.3	12.3	12.7	12.7	13.2	13.2	15.1	15.1	16.5	17.9	19.8
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°	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3
2.5°	1150.3	1147.0	1143.3	1136.7	1128.6	1124.4	1117.8	1113.6	1105.1	1098.0	1090.5
5°	1200.3	1188.0	1176.7	1162.1	1146.1	1135.7	1123.5	1109.8	1095.7	1081.0	1065.0
7.5°	1250.2	1230.0	1207.8	1184.7	1162.1	1140.9	1121.1	1100.8	1082.5	1059.4	1040.0
10°	1300.6	1273.3	1244.1	1209.7	1176.2	1147.0	1117.3	1091.4	1065.0	1036.7	1011.8
12.5°	1351.1	1312.4	1268.1	1229.5	1187.5	1150.8	1114.5	1079.6	1044.8	1012.7	982.6
15°	1369.4	1337.4	1299.2	1245.5	1200.3	1151.7	1105.6	1062.7	1022.6	987.7	951.0
17.5°	1387.4	1346.4	1305.8	1254.0	1195.1	1142.8	1090.5	1043.8	999.5	955.7	922.2
20°	1391.6	1349.2	1306.3	1255.9	1195.1	1132.9	1080.6	1021.7	973.1	927.4	884.1
22.5°	1390.2	1340.7	1293.1	1240.8	1181.9	1125.8	1059.8	999.5	945.8	901.0	855.3
25°	1379.8	1328.5	1270.0	1217.7	1159.3	1098.5	1034.4	972.2	918.5	867.1	822.3
27.5°	1373.7	1308.7	1244.6	1184.2	1128.2	1072.1	1009.9	945.8	886.9	834.6	793.1
30°	1360.0	1287.0	1212.5	1148.9	1090.9	1036.7	978.8	916.6	854.4	803.5	758.2
32.5°	1347.8	1259.6	1180.0	1109.3	1047.1	994.8	942.5	884.1	823.3	771.4	726.2
35°	1331.3	1232.8	1142.8	1064.6	999.0	944.9	900.1	844.9	788.9	738.9	695.6
37.5°	1312.0	1197.9	1102.7	1021.2	950.0	893.5	851.1	808.2	752.1	703.1	664.5
40°	1288.4	1160.2	1058.0	974.1	899.6	840.2	801.6	761.5	716.8	672.0	630.5
42.5°	1258.7	1126.3	1012.7	920.8	847.3	789.8	748.8	716.3	678.1	637.1	599.4
45°	1221.0	1083.9	963.2	866.2	791.7	734.7	692.7	667.3	637.6	598.0	565.5
47.5°	1171.1	1035.8	911.4	811.0	734.2	681.4	641.4	616.4	594.7	563.6	533.0
50°	1099.9	980.7	854.4	754.9	678.1	624.9	588.6	566.4	548.5	525.9	500.9
52.5°	1020.3	911.4	798.3	700.3	624.4	572.1	536.8	517.9	503.8	489.2	464.7
55°	935.0	840.7	733.3	640.0	569.7	518.4	487.3	470.3	458.1	445.8	430.7
57.5°	843.1	766.7	668.2	581.1	516.0	468.0	438.7	421.3	411.4	404.8	395.4
60°	745.0	681.9	599.9	522.1	459.0	417.5	389.3	376.5	368.5	363.3	356.7
62.5°	654.1	605.1	530.6	461.4	408.1	369.5	345.0	332.7	325.2	323.3	318.1
65°	565.0	525.0	462.3	403.4	356.3	322.8	301.6	289.8	285.1	282.3	282.7
67.5°	475.5	449.6	397.3	345.4	306.8	277.1	259.7	250.7	248.3	244.1	244.1
70°	394.9	376.5	334.1	290.3	256.8	235.2	220.1	210.6	208.3	206.4	205.9
72.5°	323.7	308.2	272.9	239.9	210.6	192.3	180.5	175.8	171.5	170.6	170.6
75°	254.0	245.0	215.8	188.0	167.3	154.1	145.6	140.4	137.6	137.1	137.6
77.5°	191.8	183.3	163.1	142.3	128.7	118.3	110.3	108.9	105.1	105.6	104.6
80°	135.7	130.5	118.8	103.2	92.4	83.9	80.1	76.8	75.9	74.5	75.9
82.5°	89.1	83.4	76.3	67.9	59.4	55.1	51.4	50.9	50.4	50.0	50.0
85°	48.5	49.0	44.3	36.8	33.0	30.2	27.8	27.8	27.3	26.9	27.3
87.5°	20.7	19.8	17.9	16.5	14.1	12.7	12.3	12.7	11.3	10.8	11.3
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°	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3
2.5°	1086.2	1081.0	1076.8	1067.4	1062.2	1055.1	1049.5	1055.6	1049.0	1051.8	1047.6
5°	1057.0	1043.8	1034.4	1020.7	1008.9	998.1	990.1	988.7	984.9	983.0	977.4
7.5°	1022.1	1007.1	991.5	974.5	960.4	945.3	936.4	927.9	922.7	916.1	910.9
10°	992.0	969.8	951.0	929.3	910.5	894.0	880.8	874.2	868.0	859.1	855.8
12.5°	954.8	931.7	907.6	884.1	866.2	847.3	836.5	825.6	821.9	811.5	811.0
15°	926.5	892.1	869.5	845.9	820.9	805.8	796.4	785.6	780.9	773.8	768.6
17.5°	891.6	860.5	832.2	808.2	785.6	773.3	761.1	753.5	745.5	740.3	731.8
20°	853.0	823.7	795.5	769.5	753.1	738.4	729.0	722.0	713.5	711.1	702.6
22.5°	820.4	787.5	760.6	739.9	721.5	704.5	694.1	689.9	684.7	676.2	676.2
25°	784.6	751.2	728.1	706.4	690.4	675.3	668.2	662.1	656.5	651.3	649.4
27.5°	754.5	724.8	696.5	676.7	663.0	648.9	642.8	634.8	630.5	626.3	620.6
30°	722.4	691.8	667.8	648.9	633.8	621.6	615.0	609.8	606.0	602.3	599.4
32.5°	689.4	661.6	638.5	620.2	605.1	596.6	590.9	587.6	583.4	578.7	574.9
35°	661.2	630.1	607.4	591.4	579.6	572.6	566.0	562.7	558.0	558.0	554.2
37.5°	627.7	600.4	580.1	565.5	555.1	548.5	541.0	539.1	535.8	533.9	532.5
40°	598.5	573.5	554.7	540.1	528.7	523.6	517.9	514.1	512.2	509.9	508.9
42.5°	568.3	544.8	526.9	513.7	504.2	500.0	494.8	492.5	488.2	484.9	484.4
45°	537.7	514.6	498.1	487.3	478.8	473.6	470.3	464.7	462.8	459.0	458.5
47.5°	509.4	486.8	470.3	461.4	453.8	450.0	444.9	438.7	436.4	434.0	433.5
50°	476.9	456.6	441.6	433.1	426.0	419.9	414.7	410.9	409.5	409.5	410.5
52.5°	443.9	427.4	415.2	404.3	397.7	391.1	386.4	384.5	382.2	385.0	386.9
55°	411.9	394.4	385.0	375.1	368.5	361.0	358.6	357.7	356.3	360.0	361.9
57.5°	377.5	365.7	354.4	344.0	338.4	333.6	329.9	329.4	332.2	333.2	338.8
60°	345.0	330.8	320.9	313.4	306.3	303.5	302.5	301.6	303.5	308.7	316.7
62.5°	309.1	298.3	287.5	282.3	277.6	272.4	272.4	273.3	277.6	283.7	291.7
65°	274.3	264.4	257.3	250.7	246.5	243.6	244.6	246.5	250.7	258.7	267.7
67.5°	238.5	231.9	225.3	219.1	214.9	215.4	215.8	218.2	223.4	232.8	241.3
70°	204.1	196.5	191.3	189.0	185.7	183.8	186.6	191.3	195.6	204.1	211.1
72.5°	169.6	163.5	159.8	158.3	157.4	156.0	156.5	161.6	167.8	176.2	184.7
75°	135.7	133.4	130.5	128.7	127.2	128.2	129.1	133.8	138.5	147.5	156.9
77.5°	105.1	102.3	100.4	99.9	99.0	99.4	101.8	105.6	110.3	116.9	124.4
80°	74.9	74.0	73.0	72.6	72.6	73.0	76.8	79.2	83.4	89.5	95.2
82.5°	49.5	49.0	49.0	49.0	49.5	49.5	51.4	54.7	58.0	62.2	66.9
85°	28.7	27.8	29.2	29.7	28.7	30.2	31.1	33.0	34.4	36.8	39.1
87.5°	11.8	12.7	12.3	12.7	12.7	13.7	13.2	15.1	16.0	17.0	16.5
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: P242807

CATALOG NUMBER: S125DRP-S850D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1110.3	1110.3	1110.3	1110.3
2.5°	1044.8	1048.1	1045.2	1049.0
5°	975.0	970.8	973.6	971.7
7.5°	910.5	906.7	901.0	899.1
10°	850.6	845.4	844.9	841.7
12.5°	806.8	802.1	795.5	794.5
15°	765.8	762.0	758.7	761.5
17.5°	730.9	727.6	726.7	723.8
20°	698.4	696.0	697.0	690.9
22.5°	672.5	667.3	666.3	666.3
25°	645.1	642.8	640.4	642.8
27.5°	621.1	618.8	617.8	618.3
30°	599.4	594.7	595.2	594.7
32.5°	575.9	573.0	572.1	571.2
35°	552.8	552.8	550.4	550.4
37.5°	531.6	531.1	529.7	530.6
40°	507.1	506.6	505.2	502.4
42.5°	483.5	481.6	481.1	480.7
45°	458.5	458.5	457.6	457.1
47.5°	434.0	435.0	436.8	436.4
50°	412.3	412.8	414.2	414.7
52.5°	388.3	391.6	393.5	393.0
55°	366.2	369.5	372.8	373.2
57.5°	344.0	348.3	351.6	352.5
60°	321.4	327.5	331.8	333.6
62.5°	299.7	306.8	311.0	311.0
65°	275.7	282.7	286.5	289.3
67.5°	250.7	257.8	261.5	263.9
70°	222.9	230.0	235.6	237.5
72.5°	195.6	201.7	205.9	208.3
75°	163.1	171.5	175.8	178.1
77.5°	131.9	140.4	142.8	144.2
80°	100.8	105.6	108.9	109.3
82.5°	71.6	75.4	75.9	77.3
85°	42.4	44.3	44.8	44.3
87.5°	17.4	17.0	17.0	17.9
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242807

CATALOG NUMBER: S125DRP-S850D830-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	17.83	19.40	18.20	19.71	20.03	17.81	19.37	18.17	19.69	20.00
	3H	19.20	20.61	19.58	20.94	21.30	19.24	20.65	19.61	20.97	21.33
	4H	19.70	21.02	20.10	21.37	21.75	19.72	21.05	20.12	21.40	21.77
	6H	20.03	21.26	20.45	21.62	22.02	20.04	21.26	20.45	21.63	22.02
	8H	20.12	21.29	20.55	21.68	22.08	20.12	21.29	20.54	21.68	22.08
	12H	20.17	21.29	20.60	21.67	22.10	20.16	21.28	20.59	21.66	22.09
4H	2H	19.34	20.66	19.74	21.01	21.39	18.88	20.21	19.28	20.56	20.94
	3H	20.69	21.79	21.10	22.19	22.59	20.55	21.65	20.96	22.05	22.45
	4H	21.19	22.19	21.62	22.60	23.04	21.10	22.10	21.53	22.51	22.95
	6H	21.57	22.43	22.02	22.87	23.33	21.48	22.34	21.93	22.78	23.24
	8H	21.67	22.48	22.13	22.92	23.39	21.57	22.38	22.03	22.83	23.29
	12H	21.73	22.46	22.21	22.93	23.40	21.63	22.35	22.11	22.83	23.30
8H	4H	21.68	22.49	22.14	22.93	23.40	21.44	22.25	21.90	22.70	23.16
	6H	22.13	22.80	22.62	23.29	23.76	21.94	22.62	22.44	23.11	23.58
	8H	22.27	22.87	22.78	23.38	23.87	22.09	22.69	22.60	23.20	23.69
	12H	22.37	22.91	22.88	23.40	23.96	22.19	22.72	22.70	23.21	23.78
12H	4H	21.72	22.45	22.20	22.93	23.40	21.46	22.19	21.94	22.66	23.13
	6H	22.21	22.81	22.72	23.32	23.81	21.99	22.59	22.50	23.10	23.59
	8H	22.40	22.93	22.91	23.43	23.99	22.20	22.73	22.71	23.22	23.79