

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: P242832

Luminaire Tested: S125DRP-S850D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242832
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-S850D940-X4F0-XX-UDD-A-W
Description: DEFINE 5 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

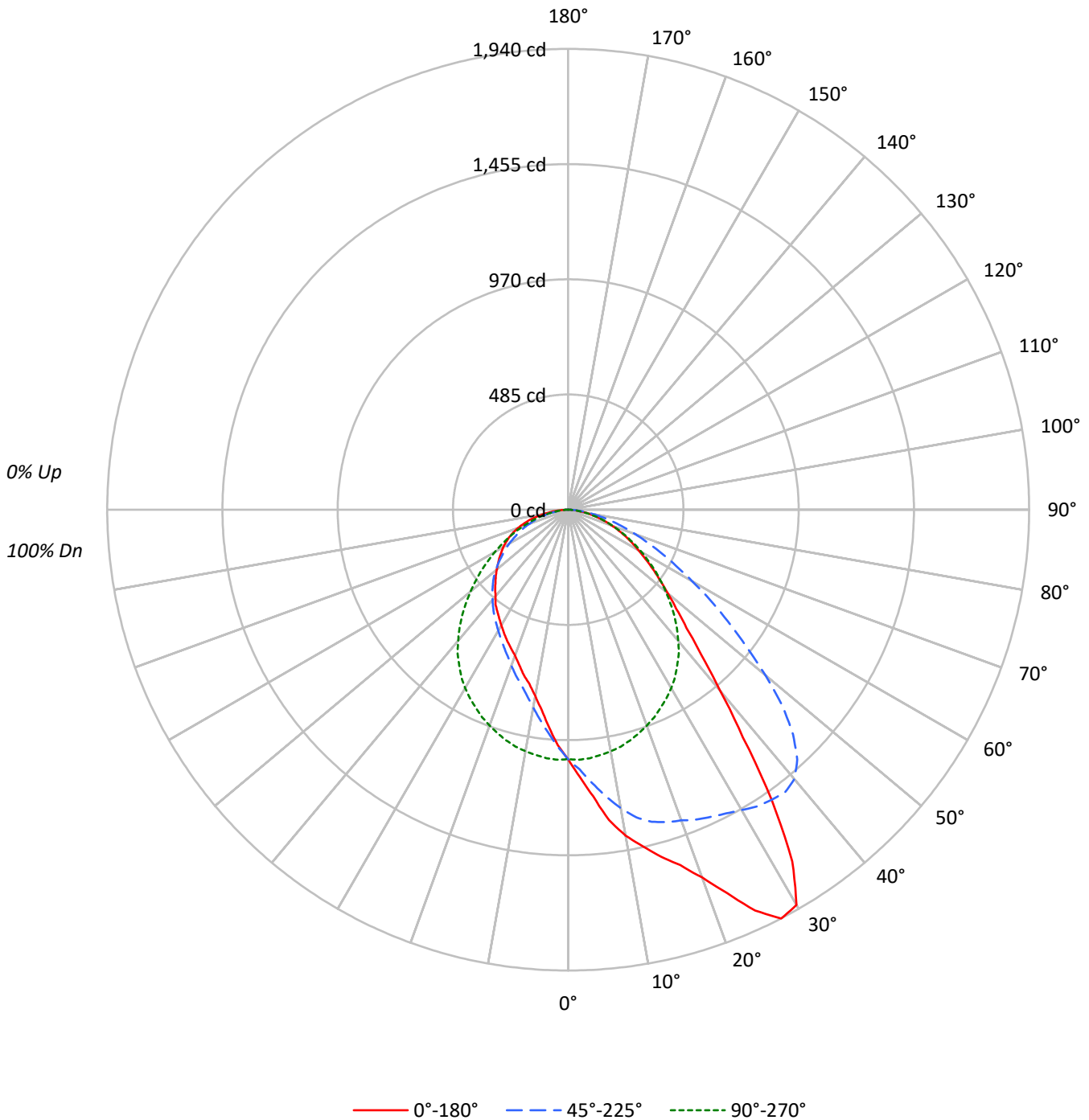
Lumens per Lamp: N/A
Luminaire Lumens: 2964.2 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.53
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (Ain): 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

TEST NUMBER: P242832

CATALOG NUMBER: S125DRP-S850D940-X4F0-XX-UDD-A-W

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°	7466	7466	7466	7466	7466
5°	8646	8235	7491	6737	6559
10°	10058	9209	7452	6103	5747
15°	11134	10008	7398	5610	5301
20°	12463	10528	7311	5284	4943
25°	14600	11184	7213	5010	4769
30°	15769	11980	7116	4826	4617
35°	12966	12939	6936	4700	4518
40°	9216	13742	6685	4595	4410
45°	7080	13448	6345	4504	4347
50°	6044	11964	5925	4392	4338
55°	5380	10160	5513	4232	4375
60°	4854	8581	5063	4081	4488
65°	4484	7311	4611	3876	4603
70°	4077	6218	4142	3614	4669
75°	3600	5314	3650	3331	4627
80°	3029	4363	2976	2828	4232
85°	2398	3164	2145	2324	3417

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 13448 cd/sqm



TEST NUMBER: P242832

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	3.4
10°-20°	301.1	10.2
20°-30°	489.1	16.5
30°-40°	597.8	20.2
40°-50°	542.3	18.3
50°-60°	431.9	14.6
60°-70°	300.8	10.1
70°-80°	160.3	5.4
80°-90°	39.7	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°	891.3	30.1
0°-40°	1489.1	50.2
0°-60°	2463.3	83.1
0°-90°	2964.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2964.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1050	1050	1050	1050	1050	
5°	1212	1154	1050	944	919	122
15°	1513	1360	1005	762	720	433
25°	1862	1426	920	639	608	853
35°	1494	1491	799	542	521	917
45°	704	1338	631	448	432	560
55°	434	820	445	342	353	390
65°	267	435	274	230	274	264
75°	131	194	133	121	168	141
85°	29	39	26	28	42	34
90°	0	0	0	0	0	



TEST NUMBER: P242832

CATALOG NUMBER: S125DRP-S850D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1050.4	1050.4	1050.4	1050.4	1050.4	1050.4	1050.4	1050.4	1050.4	1050.4	1050.4
2.5°	1126.2	1124.4	1122.6	1119.0	1121.7	1114.1	1110.6	1104.3	1096.8	1094.1	1091.0
5°	1211.8	1214.0	1216.2	1206.9	1207.8	1201.5	1187.3	1175.7	1166.3	1154.3	1145.8
7.5°	1317.9	1311.2	1311.6	1305.8	1295.6	1287.1	1273.3	1254.1	1236.7	1217.1	1200.2
10°	1393.7	1394.1	1390.1	1383.0	1371.8	1363.8	1344.2	1325.5	1302.7	1276.0	1256.8
12.5°	1450.7	1453.0	1447.6	1437.4	1433.4	1412.8	1398.6	1375.4	1347.3	1327.2	1295.6
15°	1513.2	1508.3	1504.7	1492.7	1483.3	1464.6	1440.0	1416.9	1387.4	1360.2	1333.0
17.5°	1568.4	1572.5	1566.7	1557.7	1530.1	1508.3	1477.9	1448.5	1413.3	1379.4	1347.8
20°	1647.8	1651.4	1641.1	1621.9	1587.2	1565.3	1522.1	1481.1	1438.7	1391.9	1356.2
22.5°	1746.8	1742.3	1727.6	1696.0	1667.0	1621.9	1574.2	1522.1	1466.3	1412.0	1361.6
25°	1861.8	1843.1	1834.6	1798.5	1758.8	1699.5	1635.3	1562.2	1496.2	1426.2	1365.6
27.5°	1940.3	1932.7	1920.7	1891.2	1845.8	1778.4	1702.6	1615.3	1526.5	1440.9	1364.7
30°	1921.5	1922.4	1923.3	1915.3	1888.6	1840.9	1765.5	1669.7	1559.1	1459.7	1367.8
32.5°	1755.7	1775.8	1794.9	1819.9	1835.9	1836.4	1796.3	1712.0	1597.4	1481.1	1366.0
35°	1494.4	1499.3	1549.7	1599.7	1667.4	1720.0	1755.3	1716.9	1621.1	1491.3	1364.7
37.5°	1208.2	1232.7	1270.6	1326.8	1428.5	1511.4	1620.2	1657.6	1612.6	1499.8	1364.3
40°	993.3	1015.6	1038.3	1095.9	1178.3	1284.4	1412.4	1521.6	1547.0	1481.1	1350.9
42.5°	827.5	844.0	869.8	909.5	975.0	1066.0	1186.8	1337.9	1441.4	1426.7	1322.8
45°	704.4	715.6	735.2	769.5	819.4	893.0	1000.9	1156.9	1292.9	1337.9	1275.1
47.5°	617.0	617.5	633.5	658.1	695.9	763.7	844.4	972.8	1119.5	1223.4	1208.7
50°	546.6	544.4	556.4	576.9	605.4	646.9	723.1	820.8	960.3	1082.0	1115.9
52.5°	486.0	486.9	493.1	506.9	529.7	563.5	615.7	701.3	815.4	941.2	1012.5
55°	434.2	432.5	440.9	451.2	468.6	491.8	532.8	600.1	696.8	819.9	902.8
57.5°	384.3	389.2	392.8	399.9	415.1	431.1	467.7	519.4	599.2	708.4	796.3
60°	341.5	346.4	349.1	356.2	367.8	381.2	407.9	448.1	512.7	603.7	690.6
62.5°	303.2	306.7	307.2	313.4	322.3	335.3	354.9	387.0	434.7	511.4	596.1
65°	266.6	266.6	268.4	275.1	279.5	291.1	307.2	331.7	372.7	434.7	507.4
67.5°	230.9	233.2	232.7	235.8	239.9	249.7	261.7	282.2	314.8	361.6	421.8
70°	196.2	198.0	197.5	199.7	204.2	210.0	219.4	238.5	260.4	299.2	349.1
72.5°	165.0	165.4	164.1	167.2	169.4	174.3	185.0	193.0	213.1	244.3	283.1
75°	131.1	132.0	132.9	134.6	137.3	140.0	145.3	155.6	169.0	193.5	219.8
77.5°	104.3	102.1	104.8	104.3	105.7	107.9	112.8	118.6	130.2	146.7	168.5
80°	74.0	74.5	74.5	74.9	77.1	78.5	82.5	86.5	95.0	106.6	120.8
82.5°	49.0	50.4	49.5	50.4	52.2	53.1	54.8	58.0	62.0	70.4	79.8
85°	29.4	27.2	28.1	29.0	29.0	29.4	31.2	32.5	35.2	38.8	42.8
87.5°	10.7	11.6	12.0	12.0	12.5	12.5	14.3	14.3	15.6	16.9	18.7
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: P242832

CATALOG NUMBER: S125DRP-S850D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1050.4	1050.4	1050.4	1050.4	1050.4	1050.4	1050.4	1050.4	1050.4	1050.4	1050.4
2.5°	1088.3	1085.2	1081.6	1075.4	1067.8	1063.8	1057.5	1053.5	1045.5	1038.8	1031.7
5°	1135.5	1123.9	1113.2	1099.4	1084.3	1074.5	1062.9	1049.9	1036.6	1022.7	1007.6
7.5°	1182.8	1163.6	1142.7	1120.8	1099.4	1079.4	1060.6	1041.5	1024.1	1002.2	984.0
10°	1230.5	1204.6	1177.0	1144.5	1112.8	1085.2	1057.1	1032.6	1007.6	980.8	957.2
12.5°	1278.2	1241.6	1199.7	1163.2	1123.5	1088.7	1054.4	1021.4	988.4	958.1	929.6
15°	1295.6	1265.3	1229.2	1178.3	1135.5	1089.6	1045.9	1005.4	967.5	934.5	899.7
17.5°	1312.5	1273.7	1235.4	1186.4	1130.6	1081.1	1031.7	987.5	945.6	904.2	872.5
20°	1316.5	1276.4	1235.9	1188.1	1130.6	1071.8	1022.3	966.6	920.6	877.4	836.4
22.5°	1315.2	1268.4	1223.4	1173.9	1118.2	1065.1	1002.7	945.6	894.8	852.4	809.2
25°	1305.4	1256.8	1201.5	1152.0	1096.8	1039.2	978.6	919.8	868.9	820.3	778.0
27.5°	1299.6	1238.1	1177.4	1120.4	1067.3	1014.3	955.4	894.8	839.1	789.6	750.3
30°	1286.7	1217.6	1147.1	1086.9	1032.1	980.8	926.0	867.1	808.3	760.1	717.3
32.5°	1275.1	1191.7	1116.4	1049.5	990.6	941.2	891.7	836.4	778.9	729.8	687.0
35°	1259.5	1166.3	1081.1	1007.1	945.2	893.9	851.5	799.4	746.3	699.1	658.1
37.5°	1241.2	1133.3	1043.3	966.1	898.8	845.3	805.2	764.6	711.6	665.2	628.6
40°	1218.9	1097.6	1000.9	921.5	851.1	794.9	758.4	720.5	678.1	635.8	596.5
42.5°	1190.8	1065.5	958.1	871.2	801.6	747.2	708.4	677.7	641.6	602.8	567.1
45°	1155.2	1025.4	911.3	819.4	749.0	695.1	655.4	631.3	603.2	565.8	535.0
47.5°	1107.9	979.9	862.2	767.3	694.6	644.7	606.8	583.2	562.6	533.2	504.2
50°	1040.6	927.8	808.3	714.2	641.6	591.2	556.8	535.9	519.0	497.6	473.9
52.5°	965.2	862.2	755.2	662.5	590.7	541.2	507.8	490.0	476.6	462.8	439.6
55°	884.5	795.4	693.7	605.4	539.0	490.4	461.0	444.9	433.4	421.8	407.5
57.5°	797.6	725.4	632.2	549.7	488.2	442.7	415.1	398.6	389.2	383.0	374.1
60°	704.9	645.1	567.5	494.0	434.2	395.0	368.3	356.2	348.6	343.7	337.5
62.5°	618.8	572.5	502.0	436.5	386.1	349.5	326.4	314.8	307.6	305.8	300.9
65°	534.6	496.7	437.4	381.6	337.1	305.4	285.3	274.2	269.7	267.1	267.5
67.5°	449.8	425.3	375.8	326.8	290.2	262.2	245.7	237.2	235.0	230.9	230.9
70°	373.6	356.2	316.1	274.6	243.0	222.5	208.2	199.3	197.1	195.3	194.8
72.5°	306.3	291.6	258.1	226.9	199.3	181.9	170.8	166.3	162.3	161.4	161.4
75°	240.3	231.8	204.2	177.9	158.3	145.8	137.8	132.9	130.2	129.7	130.2
77.5°	181.5	173.4	154.3	134.6	121.7	111.9	104.3	103.0	99.4	99.9	99.0
80°	128.4	123.5	112.4	97.6	87.4	79.4	75.8	72.7	71.8	70.4	71.8
82.5°	84.3	78.9	72.2	64.2	56.2	52.2	48.6	48.2	47.7	47.3	47.3
85°	45.9	46.4	41.9	34.8	31.2	28.5	26.3	26.3	25.9	25.4	25.9
87.5°	19.6	18.7	16.9	15.6	13.4	12.0	11.6	12.0	10.7	10.3	10.7
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: P242832

CATALOG NUMBER: S125DRP-S850D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1050.4	1050.4	1050.4	1050.4	1050.4	1050.4	1050.4	1050.4	1050.4	1050.4	1050.4
2.5°	1027.6	1022.7	1018.7	1009.8	1004.9	998.2	992.9	998.7	992.4	995.1	991.1
5°	1000.0	987.5	978.6	965.7	954.5	944.3	936.7	935.4	931.8	930.0	924.7
7.5°	967.0	952.7	938.0	922.0	908.6	894.3	885.9	877.8	872.9	866.7	861.8
10°	938.5	917.5	899.7	879.2	861.4	845.7	833.3	827.0	821.2	812.8	809.6
12.5°	903.3	881.4	858.7	836.4	819.4	801.6	791.4	781.1	777.5	767.7	767.3
15°	876.5	844.0	822.6	800.3	776.6	762.4	753.5	743.2	738.7	732.1	727.2
17.5°	843.5	814.1	787.3	764.6	743.2	731.6	720.0	712.9	705.3	700.4	692.4
20°	807.0	779.3	752.6	728.0	712.4	698.6	689.7	683.0	675.0	672.8	664.7
22.5°	776.2	745.0	719.6	700.0	682.6	666.5	656.7	652.7	647.8	639.8	639.8
25°	742.3	710.7	688.8	668.3	653.1	638.9	632.2	626.4	621.0	616.1	614.4
27.5°	713.8	685.7	658.9	640.2	627.3	613.9	608.1	600.5	596.5	592.5	587.2
30°	683.5	654.5	631.7	613.9	599.6	588.1	581.8	576.9	573.3	569.8	567.1
32.5°	652.3	626.0	604.1	586.7	572.5	564.4	559.1	556.0	551.9	547.5	543.9
35°	625.5	596.1	574.7	559.5	548.4	541.7	535.4	532.3	527.9	527.9	524.3
37.5°	593.9	568.0	548.8	535.0	525.2	519.0	511.8	510.0	506.9	505.1	503.8
40°	566.2	542.6	524.7	510.9	500.2	495.3	490.0	486.4	484.6	482.4	481.5
42.5°	537.7	515.4	498.4	486.0	477.0	473.0	468.1	465.9	461.9	458.8	458.3
45°	508.7	486.9	471.2	461.0	453.0	448.1	444.9	439.6	437.8	434.2	433.8
47.5°	481.9	460.5	444.9	436.5	429.3	425.8	420.9	415.1	412.8	410.6	410.2
50°	451.2	432.0	417.7	409.7	403.0	397.2	392.3	388.8	387.4	387.4	388.3
52.5°	420.0	404.4	392.8	382.5	376.3	370.0	365.6	363.8	361.6	364.2	366.0
55°	389.7	373.2	364.2	354.9	348.6	341.5	339.3	338.4	337.1	340.6	342.4
57.5°	357.1	346.0	335.3	325.5	320.1	315.7	312.1	311.6	314.3	315.2	320.6
60°	326.4	313.0	303.6	296.5	289.8	287.1	286.2	285.3	287.1	292.0	299.6
62.5°	292.5	282.2	272.0	267.1	262.6	257.7	257.7	258.6	262.6	268.4	276.0
65°	259.5	250.1	243.4	237.2	233.2	230.5	231.4	233.2	237.2	244.8	253.2
67.5°	225.6	219.4	213.1	207.3	203.3	203.7	204.2	206.4	211.3	220.2	228.3
70°	193.0	185.9	181.0	178.8	175.7	173.9	176.6	181.0	185.0	193.0	199.7
72.5°	160.5	154.7	151.1	149.8	148.9	147.6	148.0	152.9	158.7	166.7	174.8
75°	128.4	126.2	123.5	121.7	120.4	121.3	122.2	126.6	131.1	139.5	148.5
77.5°	99.4	96.7	95.0	94.5	93.6	94.1	96.3	99.9	104.3	110.6	117.7
80°	70.9	70.0	69.1	68.7	68.7	69.1	72.7	74.9	78.9	84.7	90.1
82.5°	46.8	46.4	46.4	46.4	46.8	46.8	48.6	51.7	54.8	58.9	63.3
85°	27.2	26.3	27.6	28.1	27.2	28.5	29.4	31.2	32.5	34.8	37.0
87.5°	11.1	12.0	11.6	12.0	12.0	12.9	12.5	14.3	15.2	16.1	15.6
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: P242832

CATALOG NUMBER: S125DRP-S850D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1050.4	1050.4	1050.4	1050.4
2.5°	988.4	991.5	988.9	992.4
5°	922.4	918.4	921.1	919.3
7.5°	861.4	857.8	852.4	850.7
10°	804.7	799.8	799.4	796.3
12.5°	763.3	758.8	752.6	751.7
15°	724.5	720.9	717.8	720.5
17.5°	691.5	688.4	687.5	684.8
20°	660.7	658.5	659.4	653.6
22.5°	636.2	631.3	630.4	630.4
25°	610.3	608.1	605.9	608.1
27.5°	587.6	585.4	584.5	584.9
30°	567.1	562.6	563.1	562.6
32.5°	544.8	542.1	541.2	540.4
35°	523.0	523.0	520.7	520.7
37.5°	502.9	502.5	501.1	502.0
40°	479.7	479.3	477.9	475.3
42.5°	457.4	455.6	455.2	454.8
45°	433.8	433.8	432.9	432.5
47.5°	410.6	411.5	413.3	412.8
50°	390.1	390.6	391.9	392.3
52.5°	367.4	370.5	372.3	371.8
55°	346.4	349.5	352.7	353.1
57.5°	325.5	329.5	332.6	333.5
60°	304.1	309.9	313.9	315.7
62.5°	283.6	290.2	294.3	294.3
65°	260.8	267.5	271.1	273.7
67.5°	237.2	243.9	247.4	249.7
70°	210.9	217.6	222.9	224.7
72.5°	185.0	190.8	194.8	197.1
75°	154.3	162.3	166.3	168.5
77.5°	124.8	132.9	135.1	136.4
80°	95.4	99.9	103.0	103.4
82.5°	67.8	71.3	71.8	73.1
85°	40.1	41.9	42.4	41.9
87.5°	16.5	16.1	16.1	16.9
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242832
 CATALOG NUMBER: S125DRP-S850D940-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	17.64	19.21	18.01	19.52	19.84	17.61	19.18	17.98	19.50	19.81
	3H	19.01	20.42	19.39	20.75	21.11	19.04	20.45	19.42	20.78	21.14
	4H	19.50	20.83	19.90	21.18	21.55	19.53	20.86	19.93	21.20	21.58
	6H	19.84	21.07	20.25	21.43	21.82	19.84	21.07	20.26	21.44	21.83
	8H	19.93	21.10	20.36	21.49	21.89	19.93	21.09	20.35	21.48	21.88
	12H	19.98	21.10	20.41	21.48	21.91	19.97	21.08	20.40	21.47	21.89
4H	2H	19.15	20.47	19.55	20.82	21.20	18.69	20.02	19.09	20.37	20.74
	3H	20.49	21.60	20.90	21.99	22.40	20.35	21.46	20.76	21.86	22.26
	4H	21.00	21.99	21.43	22.41	22.85	20.91	21.90	21.34	22.32	22.76
	6H	21.37	22.24	21.83	22.68	23.14	21.28	22.15	21.74	22.59	23.05
	8H	21.47	22.29	21.94	22.73	23.19	21.38	22.19	21.84	22.63	23.10
	12H	21.54	22.26	22.02	22.74	23.21	21.43	22.16	21.92	22.64	23.11
8H	4H	21.48	22.29	21.95	22.74	23.20	21.25	22.06	21.71	22.50	22.97
	6H	21.94	22.61	22.43	23.10	23.57	21.75	22.42	22.25	22.91	23.39
	8H	22.08	22.68	22.59	23.19	23.68	21.90	22.50	22.41	23.01	23.50
	12H	22.18	22.71	22.69	23.21	23.77	22.00	22.53	22.51	23.02	23.58
12H	4H	21.53	22.26	22.01	22.73	23.20	21.27	21.99	21.75	22.47	22.94
	6H	22.02	22.62	22.53	23.13	23.62	21.80	22.40	22.31	22.91	23.40
	8H	22.21	22.74	22.72	23.23	23.80	22.01	22.54	22.51	23.03	23.59