

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: P243672

Luminaire Tested: S125DRP-H850D835-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243672
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-61)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DRP-H850D835-X4F0-XX-UDD-A-W
Description: DEFINE 5 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

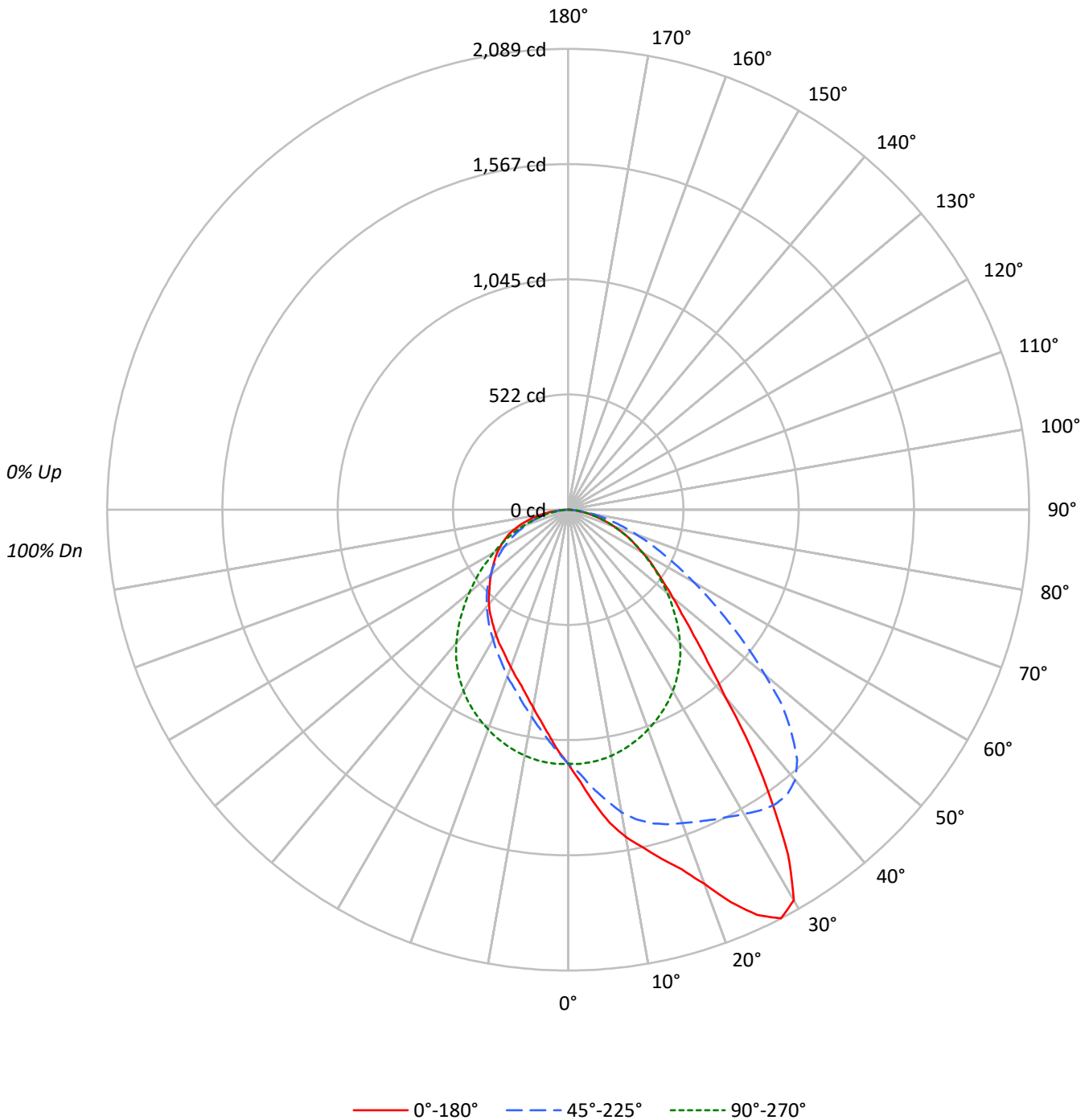
Lumens per Lamp: N/A
Luminaire Lumens: 3280.9 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.22 / 1.53
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 23.6
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

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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				
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74					72				
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	63					61				
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55					53				
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48					46				
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43					40				
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38					36				
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34					32				
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31					29				
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28					26				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8182	8182	8182	8182	8182
5°	9505	9026	8200	7461	7287
10°	10875	10050	8173	6869	6576
15°	12056	10827	8100	6406	6059
20°	13650	11436	8019	6094	5748
25°	15895	12158	7915	5780	5506
30°	16781	13076	7785	5586	5371
35°	13876	14164	7595	5444	5257
40°	10265	14848	7319	5327	5180
45°	8070	14386	6921	5223	5068
50°	6834	12847	6473	5080	5049
55°	6085	11008	6027	4917	5067
60°	5521	9331	5534	4718	5176
65°	5119	7976	5072	4475	5323
70°	4599	6820	4541	4181	5355
75°	3921	5769	3987	3820	5281
80°	3209	4662	3266	3323	4928
85°	2210	3270	2324	2626	4192

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 14386 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.2	3.4
10°-20°	332.3	10.1
20°-30°	540.3	16.5
30°-40°	657.3	20.0
40°-50°	601.4	18.3
50°-60°	481.3	14.7
60°-70°	335.2	10.2
70°-80°	178.2	5.4
80°-90°	43.7	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°	983.7	30.0
0°-40°	1641.0	50.0
0°-60°	2723.8	83.0
0°-90°	3280.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3280.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1151	1151	1151	1151	1151	
5°	1332	1265	1149	1046	1021	133
15°	1638	1471	1101	871	824	470
25°	2027	1550	1009	737	702	925
35°	1599	1632	875	627	606	992
45°	803	1431	689	520	504	633
55°	491	888	486	397	409	443
65°	304	474	302	266	316	300
75°	143	210	145	139	192	154
85°	27	40	28	32	51	35
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°	1151.2	1151.2	1151.2	1151.2	1151.2	1151.2	1151.2	1151.2	1151.2	1151.2	1151.2
2.5°	1232.4	1227.3	1225.9	1226.3	1223.5	1221.2	1215.6	1208.1	1203.0	1196.5	1194.6
5°	1332.3	1319.7	1322.0	1318.3	1312.2	1304.3	1297.3	1286.1	1275.4	1265.1	1251.5
7.5°	1430.3	1428.0	1421.5	1420.5	1410.7	1397.2	1383.2	1367.8	1344.9	1329.0	1310.8
10°	1506.9	1511.6	1502.2	1502.7	1485.4	1471.9	1459.8	1439.7	1414.0	1392.5	1365.9
12.5°	1568.5	1570.4	1569.0	1562.9	1551.7	1528.8	1517.2	1496.2	1468.2	1438.7	1418.2
15°	1638.5	1633.4	1625.5	1618.0	1601.7	1585.3	1561.1	1536.3	1500.8	1471.4	1441.5
17.5°	1708.6	1707.6	1697.8	1682.0	1661.4	1639.9	1603.5	1571.8	1534.0	1495.2	1457.9
20°	1804.7	1799.6	1785.1	1766.9	1729.1	1698.8	1653.5	1610.1	1560.6	1512.0	1468.6
22.5°	1925.2	1908.4	1893.9	1865.9	1822.5	1769.7	1718.8	1655.8	1586.7	1529.8	1475.6
25°	2026.9	2019.5	2004.1	1972.8	1923.3	1859.8	1784.2	1712.8	1625.9	1550.3	1479.8
27.5°	2088.6	2085.3	2076.0	2046.5	2005.5	1942.4	1861.7	1770.7	1672.2	1569.9	1485.4
30°	2044.7	2045.1	2050.3	2047.0	2028.8	1988.2	1916.3	1824.8	1710.9	1593.3	1486.8
32.5°	1856.1	1868.7	1908.8	1928.0	1953.6	1962.0	1929.8	1853.7	1743.6	1616.6	1491.5
35°	1599.3	1630.1	1657.2	1713.2	1780.0	1834.6	1866.4	1841.6	1757.1	1632.5	1493.8
37.5°	1357.5	1355.2	1397.2	1457.9	1528.8	1621.7	1711.8	1761.3	1733.8	1629.2	1489.6
40°	1106.4	1127.8	1154.0	1207.7	1290.8	1405.1	1512.5	1618.5	1656.7	1600.3	1473.3
42.5°	934.6	944.4	970.5	1012.5	1072.3	1189.0	1295.0	1431.3	1529.3	1535.8	1437.3
45°	802.9	813.7	821.1	862.7	918.2	996.7	1105.4	1242.7	1374.3	1431.3	1379.0
47.5°	697.4	703.5	719.8	745.0	781.5	851.0	937.8	1062.5	1205.8	1316.4	1298.7
50°	618.1	622.7	635.8	649.8	679.7	731.0	801.1	903.3	1041.0	1161.9	1201.6
52.5°	548.0	554.1	560.7	574.2	601.7	636.3	693.2	773.1	901.0	1024.7	1087.7
55°	491.1	493.4	500.4	510.7	531.7	557.9	603.1	675.5	765.1	888.4	975.2
57.5°	441.6	439.3	446.7	453.8	467.8	489.7	522.4	576.1	661.5	766.5	857.1
60°	388.4	390.7	396.3	401.9	411.7	430.9	456.6	499.5	562.1	656.4	748.8
62.5°	342.6	344.5	345.9	353.9	362.7	376.3	397.3	432.3	484.1	562.1	644.7
65°	304.4	301.1	303.0	308.6	315.6	326.8	346.4	372.1	410.8	474.3	542.9
67.5°	259.6	260.5	261.0	264.2	270.3	281.0	295.0	316.0	347.8	397.7	458.0
70°	221.3	221.7	222.2	225.0	230.1	236.2	246.0	262.4	289.4	328.2	375.3
72.5°	182.1	183.9	183.9	186.3	190.0	193.3	202.6	216.1	236.7	267.5	307.2
75°	142.8	146.1	147.0	149.8	153.1	154.1	161.1	171.8	184.9	210.1	241.3
77.5°	111.1	111.1	113.0	116.2	116.2	119.0	126.5	131.2	141.4	158.7	182.5
80°	78.4	79.8	79.8	80.8	82.6	85.0	88.2	92.4	101.3	113.9	126.5
82.5°	51.4	51.8	52.3	54.6	53.7	56.0	57.4	62.6	66.8	72.8	80.8
85°	27.1	27.1	27.5	28.9	30.3	30.8	31.7	34.1	37.3	40.1	44.8
87.5°	11.2	10.7	10.7	11.7	11.7	12.1	12.6	13.5	15.4	15.4	17.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1151.2	1151.2	1151.2	1151.2	1151.2	1151.2	1151.2	1151.2	1151.2	1151.2	1151.2
2.5°	1193.2	1189.5	1182.9	1177.3	1170.3	1165.2	1160.1	1153.5	1147.0	1140.0	1132.5
5°	1240.8	1229.6	1217.0	1204.4	1189.5	1177.3	1164.3	1149.3	1136.7	1122.7	1107.8
7.5°	1295.4	1275.8	1253.9	1229.1	1205.8	1184.8	1163.3	1142.8	1124.1	1103.1	1082.6
10°	1348.2	1314.1	1286.6	1252.9	1219.8	1189.0	1159.6	1132.5	1105.4	1079.3	1054.1
12.5°	1384.1	1345.4	1310.8	1272.1	1233.3	1194.6	1155.8	1118.5	1086.3	1054.5	1027.9
15°	1408.9	1381.8	1336.0	1289.4	1238.5	1188.1	1144.2	1100.8	1062.5	1025.6	993.9
17.5°	1424.3	1389.3	1344.4	1295.4	1239.4	1186.7	1133.9	1082.1	1038.2	998.5	962.6
20°	1428.5	1387.4	1340.7	1289.8	1233.8	1175.9	1116.6	1060.2	1012.5	967.3	930.8
22.5°	1424.3	1376.7	1326.7	1277.2	1218.4	1159.6	1097.5	1035.9	981.3	934.6	896.3
25°	1417.3	1359.9	1307.6	1249.2	1194.6	1138.6	1074.6	1009.3	952.3	903.8	860.8
27.5°	1408.4	1342.6	1278.2	1220.7	1161.5	1106.4	1047.5	980.8	921.5	868.3	828.1
30°	1398.1	1319.7	1248.3	1180.1	1124.1	1069.0	1011.6	948.6	888.8	837.9	794.5
32.5°	1386.5	1295.4	1211.4	1138.1	1078.4	1027.5	973.8	913.6	854.7	800.1	762.3
35°	1370.1	1262.3	1171.7	1092.4	1030.3	975.2	928.0	875.3	816.9	766.1	726.8
37.5°	1351.0	1232.9	1131.6	1045.7	978.0	921.5	878.1	835.1	780.5	731.5	693.7
40°	1325.3	1197.4	1089.1	996.2	923.8	868.3	825.8	788.9	743.6	694.2	660.1
42.5°	1291.7	1158.2	1041.0	942.0	872.0	812.7	773.1	739.4	700.7	657.8	624.1
45°	1253.4	1113.4	987.3	890.2	814.1	757.7	718.9	688.6	659.2	620.9	589.6
47.5°	1193.7	1060.6	938.8	831.4	756.7	702.1	665.7	636.7	614.8	584.5	553.7
50°	1122.7	1000.9	881.4	773.5	697.9	645.1	610.6	585.4	566.7	543.4	520.0
52.5°	1044.7	933.6	818.3	717.5	641.9	591.9	555.5	533.1	521.0	502.3	484.1
55°	953.7	858.0	750.6	658.7	584.5	533.6	502.3	486.4	472.9	463.6	447.2
57.5°	862.2	781.5	685.8	594.7	526.6	481.3	453.3	435.5	425.7	419.2	407.5
60°	762.3	698.8	611.1	532.2	471.5	428.5	403.8	389.3	380.5	376.7	368.8
62.5°	667.1	618.5	538.7	472.9	418.7	380.9	356.2	344.5	338.9	334.7	330.0
65°	573.3	535.0	472.0	410.3	364.6	330.5	310.9	301.6	297.4	292.7	292.2
67.5°	488.8	453.8	403.3	352.9	314.6	285.7	268.4	259.1	254.4	254.9	252.6
70°	405.7	378.6	337.5	296.4	263.8	240.9	224.5	218.5	216.6	216.1	214.3
72.5°	328.2	312.8	276.8	242.3	216.6	198.9	185.8	180.7	178.3	177.4	177.4
75°	260.0	248.8	218.0	191.9	172.3	157.8	148.9	145.2	141.9	143.8	142.4
77.5°	195.1	185.8	164.8	146.1	131.2	119.0	114.8	111.6	109.7	109.2	111.1
80°	137.2	131.6	118.6	103.6	92.4	85.4	82.6	79.8	78.4	77.5	78.4
82.5°	88.2	85.0	75.6	66.8	60.2	56.5	53.7	52.3	49.9	50.4	51.4
85°	48.1	47.1	41.1	38.3	32.2	31.7	29.9	28.5	28.9	28.0	29.4
87.5°	19.6	18.7	17.3	15.9	14.0	12.6	11.7	12.6	11.2	12.6	12.1
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°	1151.2	1151.2	1151.2	1151.2	1151.2	1151.2	1151.2	1151.2	1151.2	1151.2	1151.2
2.5°	1128.8	1123.6	1117.6	1112.0	1103.6	1098.0	1095.2	1096.1	1092.8	1091.9	1091.4
5°	1098.9	1087.2	1076.0	1066.7	1056.9	1045.7	1037.7	1035.4	1034.5	1032.1	1027.0
7.5°	1068.1	1053.1	1038.7	1025.1	1011.1	998.1	990.1	983.6	979.9	973.3	971.9
10°	1035.4	1017.2	1001.8	982.2	965.4	951.8	941.6	936.0	932.7	926.6	921.5
12.5°	1004.1	985.0	961.2	943.4	925.7	911.7	900.0	890.7	888.4	880.4	876.2
15°	970.5	947.2	925.7	905.2	888.4	870.6	863.6	855.2	846.8	839.8	838.4
17.5°	938.3	910.3	889.3	869.2	848.7	835.6	826.3	820.7	814.1	810.4	803.9
20°	899.6	876.7	853.3	834.7	816.9	805.7	793.1	788.0	783.3	774.5	771.7
22.5°	866.9	839.3	819.7	801.1	785.2	769.3	760.5	755.3	748.3	743.6	739.9
25°	832.8	809.9	785.2	766.5	753.0	737.1	731.0	724.5	718.4	714.2	710.5
27.5°	799.7	774.5	754.4	735.7	721.7	710.5	702.1	695.1	690.9	687.6	685.3
30°	765.1	741.8	723.1	705.8	690.0	680.6	672.7	669.9	665.2	662.9	659.2
32.5°	733.8	710.0	692.3	677.4	663.4	654.0	649.3	645.1	640.5	636.3	635.8
35°	698.4	677.8	661.5	645.1	634.9	627.4	622.3	618.1	614.3	611.1	609.2
37.5°	667.1	647.5	629.3	617.6	606.4	599.9	594.3	592.9	589.1	589.6	586.8
40°	633.5	615.7	600.3	588.7	581.2	574.2	570.5	565.8	563.5	563.9	561.6
42.5°	600.8	584.5	570.5	559.7	551.8	546.6	543.4	539.6	536.8	535.0	534.5
45°	567.7	553.2	541.5	530.8	524.2	519.6	515.4	510.7	508.4	507.4	507.0
47.5°	535.0	521.9	509.3	501.8	495.8	491.6	487.4	483.6	481.8	480.4	478.0
50°	501.4	488.3	479.4	470.1	465.0	459.4	454.7	452.8	450.5	450.0	452.3
52.5°	466.4	456.1	448.1	440.7	434.6	428.5	423.9	421.5	422.9	422.9	425.7
55°	433.2	422.5	415.0	408.9	402.4	396.8	392.1	392.1	392.1	394.9	398.7
57.5°	396.3	387.0	381.4	374.4	368.3	364.6	361.3	360.9	362.7	367.4	371.6
60°	359.0	352.5	346.4	340.8	334.7	331.9	331.4	330.5	333.3	338.0	346.8
62.5°	322.1	317.9	310.4	307.6	302.5	299.2	299.2	300.2	304.4	311.8	319.8
65°	286.6	280.6	275.0	272.2	268.9	266.1	266.1	269.8	275.9	282.9	292.7
67.5°	250.2	245.1	241.3	238.5	234.8	233.4	234.8	239.0	246.5	253.5	263.8
70°	211.0	210.1	206.8	203.1	201.2	201.2	202.6	207.3	212.9	223.6	232.5
72.5°	175.1	175.1	173.2	170.9	169.5	170.9	171.8	176.5	183.5	192.8	202.6
75°	142.4	141.0	139.6	138.6	138.2	139.1	140.5	144.2	152.7	161.5	169.5
77.5°	110.2	109.2	107.8	108.8	108.8	109.2	113.4	117.6	122.3	129.3	137.7
80°	79.4	79.8	78.4	78.0	80.3	81.2	84.5	87.8	91.0	99.0	105.0
82.5°	52.3	53.2	52.8	53.7	54.6	54.6	58.4	61.6	64.4	70.0	74.7
85°	29.9	30.3	30.3	31.7	32.7	32.2	35.5	37.3	38.7	42.9	45.7
87.5°	13.1	13.5	14.0	14.0	14.0	15.9	16.3	17.3	17.7	18.7	20.1
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: P243672

CATALOG NUMBER: S125DRP-H850D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1151.2	1151.2	1151.2	1151.2
2.5°	1087.2	1086.8	1089.1	1090.5
5°	1023.7	1022.3	1020.5	1021.4
7.5°	967.3	963.5	962.6	962.6
10°	917.3	913.6	912.6	911.2
12.5°	874.8	869.2	866.9	864.6
15°	834.7	833.7	828.6	823.5
17.5°	797.8	799.2	794.1	791.7
20°	767.0	762.8	760.9	760.0
22.5°	735.7	732.4	732.4	729.2
25°	707.7	704.9	705.4	702.1
27.5°	681.6	681.1	680.6	679.7
30°	657.3	655.4	653.5	654.5
32.5°	633.9	631.1	629.7	629.3
35°	609.7	608.7	606.9	605.9
37.5°	585.9	586.3	584.0	583.5
40°	560.2	559.7	559.3	558.3
42.5°	533.1	531.7	532.6	532.2
45°	506.0	504.6	505.6	504.2
47.5°	479.4	480.4	480.4	480.8
50°	453.3	455.2	455.2	456.6
52.5°	429.0	432.7	432.7	432.3
55°	402.9	407.1	408.5	408.9
57.5°	378.1	382.3	386.5	387.5
60°	351.5	359.0	363.2	364.1
62.5°	327.7	334.7	340.3	340.8
65°	301.1	309.5	314.6	316.5
67.5°	274.0	280.6	287.6	290.4
70°	243.2	251.1	255.8	257.7
72.5°	211.0	219.9	225.9	226.9
75°	180.2	186.7	191.4	192.3
77.5°	145.2	151.7	155.9	156.9
80°	110.2	115.8	118.6	120.4
82.5°	78.0	81.7	83.1	85.0
85°	48.1	50.9	51.4	51.4
87.5°	21.0	21.5	21.5	22.4
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243672
 CATALOG NUMBER: S125DRP-H850D835-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	18.14	19.71	18.50	20.02	20.34	17.88	19.45	18.25	19.76	20.08
	3H	19.49	20.91	19.87	21.23	21.59	19.31	20.72	19.68	21.05	21.41
	4H	19.97	21.30	20.37	21.65	22.02	19.79	21.12	20.19	21.47	21.84
	6H	20.28	21.51	20.69	21.87	22.26	20.11	21.34	20.52	21.70	22.09
	8H	20.36	21.53	20.78	21.92	22.32	20.19	21.36	20.61	21.75	22.15
	12H	20.39	21.51	20.82	21.89	22.32	20.23	21.35	20.66	21.73	22.16
4H	2H	19.53	20.85	19.93	21.20	21.58	18.94	20.27	19.34	20.62	21.00
	3H	20.89	21.99	21.30	22.39	22.79	20.60	21.71	21.01	22.10	22.51
	4H	21.39	22.39	21.82	22.80	23.24	21.16	22.16	21.59	22.57	23.01
	6H	21.74	22.61	22.20	23.05	23.51	21.54	22.41	21.99	22.85	23.31
	8H	21.83	22.64	22.29	23.09	23.55	21.63	22.44	22.09	22.89	23.35
	12H	21.88	22.61	22.36	23.09	23.56	21.69	22.42	22.17	22.89	23.36
8H	4H	21.84	22.66	22.31	23.10	23.57	21.51	22.32	21.97	22.77	23.23
	6H	22.27	22.95	22.77	23.44	23.91	22.01	22.69	22.51	23.18	23.65
	8H	22.40	23.00	22.91	23.51	24.00	22.16	22.76	22.67	23.27	23.76
	12H	22.49	23.02	23.00	23.51	24.07	22.26	22.79	22.77	23.28	23.85
12H	4H	21.89	22.61	22.37	23.09	23.56	21.53	22.26	22.01	22.74	23.21
	6H	22.34	22.95	22.86	23.46	23.94	22.06	22.67	22.57	23.17	23.66
	8H	22.52	23.05	23.03	23.54	24.11	22.27	22.80	22.77	23.29	23.85