

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: P242817

Luminaire Tested: S125DRP-S850D840-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242817
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-S850D840-X4F0-XX-UDD-A-W
Description: DEFINE 5 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

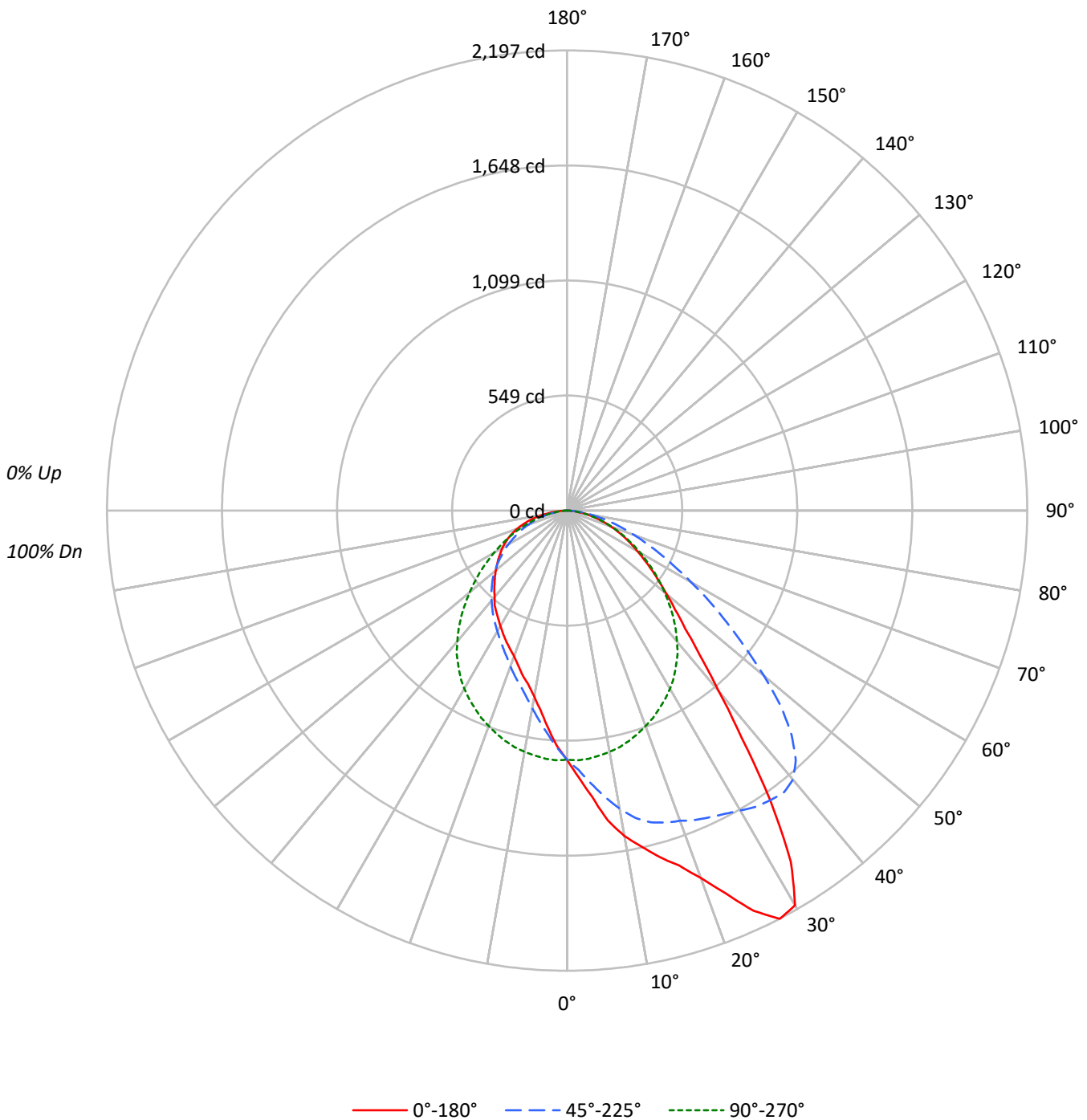
Lumens per Lamp: N/A
Luminaire Lumens: 3356.9 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.53
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

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°	8455	8455	8455	8455	8455
5°	9791	9326	8484	7630	7428
10°	11391	10429	8440	6912	6508
15°	12610	11335	8378	6353	6003
20°	14114	11922	8279	5984	5598
25°	16535	12667	8168	5674	5401
30°	17860	13567	8059	5466	5229
35°	14685	14654	7855	5323	5117
40°	10437	15562	7570	5205	4993
45°	8019	15230	7187	5100	4923
50°	6844	13549	6711	4975	4913
55°	6094	11505	6244	4793	4955
60°	5498	9717	5734	4623	5082
65°	5077	8279	5222	4389	5213
70°	4617	7040	4690	4092	5289
75°	4075	6017	4133	3770	5242
80°	3430	4940	3369	3205	4793
85°	2716	3580	2430	2634	3874

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 15230 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.5	3.4
10°-20°	341.0	10.2
20°-30°	554.0	16.5
30°-40°	677.0	20.2
40°-50°	614.2	18.3
50°-60°	489.2	14.6
60°-70°	340.7	10.1
70°-80°	181.5	5.4
80°-90°	45.0	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°	1009.5	30.1
0°-40°	1686.4	50.2
0°-60°	2789.7	83.1
0°-90°	3356.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3356.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1190	1190	1190	1190	1190	
5°	1372	1307	1189	1069	1041	138
15°	1714	1540	1139	863	816	490
25°	2108	1615	1042	724	689	966
35°	1692	1689	905	614	590	1038
45°	798	1515	715	507	490	635
55°	492	928	504	387	400	442
65°	302	492	310	261	310	300
75°	148	219	150	137	191	160
85°	33	44	30	32	48	39
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°	1189.6	1189.6	1189.6	1189.6	1189.6	1189.6	1189.6	1189.6	1189.6	1189.6	1189.6
2.5°	1275.4	1273.4	1271.4	1267.3	1270.4	1261.8	1257.7	1250.7	1242.1	1239.0	1235.5
5°	1372.3	1374.9	1377.4	1366.8	1367.8	1360.7	1344.6	1331.4	1320.8	1307.2	1297.6
7.5°	1492.5	1484.9	1485.4	1478.9	1467.3	1457.7	1442.0	1420.3	1400.6	1378.4	1359.2
10°	1578.3	1578.8	1574.3	1566.2	1553.6	1544.5	1522.3	1501.1	1475.3	1445.0	1423.3
12.5°	1643.0	1645.5	1639.4	1627.8	1623.3	1600.1	1583.9	1557.6	1525.8	1503.1	1467.3
15°	1713.7	1708.1	1704.1	1690.4	1679.8	1658.6	1630.9	1604.6	1571.3	1540.5	1509.7
17.5°	1776.3	1780.8	1774.2	1764.2	1732.8	1708.1	1673.8	1640.4	1600.6	1562.2	1526.3
20°	1866.1	1870.2	1858.6	1836.9	1797.5	1772.7	1723.8	1677.3	1629.3	1576.3	1535.9
22.5°	1978.2	1973.2	1956.5	1920.7	1887.9	1836.9	1782.8	1723.8	1660.6	1599.0	1542.0
25°	2108.5	2087.3	2077.7	2036.8	1991.9	1924.7	1852.0	1769.2	1694.5	1615.2	1546.5
27.5°	2197.4	2188.8	2175.1	2141.8	2090.3	2014.1	1928.2	1829.3	1728.8	1631.9	1545.5
30°	2176.2	2177.2	2178.2	2169.1	2138.8	2084.8	1999.4	1890.9	1765.7	1653.1	1549.1
32.5°	1988.3	2011.1	2032.8	2061.0	2079.2	2079.7	2034.3	1938.8	1809.1	1677.3	1547.0
35°	1692.5	1698.0	1755.1	1811.6	1888.4	1947.9	1987.8	1944.4	1835.8	1688.9	1545.5
37.5°	1368.3	1396.1	1439.0	1502.6	1617.7	1711.6	1834.8	1877.3	1826.3	1698.5	1545.0
40°	1124.9	1150.2	1175.9	1241.1	1334.5	1454.6	1599.6	1723.3	1752.0	1677.3	1529.9
42.5°	937.1	955.8	985.1	1030.0	1104.2	1207.2	1344.1	1515.2	1632.4	1615.7	1498.1
45°	797.8	810.4	832.6	871.5	928.0	1011.3	1133.5	1310.2	1464.2	1515.2	1444.0
47.5°	698.8	699.3	717.5	745.2	788.2	864.9	956.3	1101.7	1267.8	1385.5	1368.8
50°	619.0	616.5	630.1	653.4	685.7	732.6	819.0	929.5	1087.6	1225.4	1263.8
52.5°	550.4	551.4	558.4	574.1	599.8	638.2	697.3	794.2	923.5	1065.9	1146.6
55°	491.8	489.8	499.4	511.0	530.7	556.9	603.4	679.6	789.2	928.5	1022.4
57.5°	435.2	440.8	444.8	452.9	470.1	488.2	529.6	588.2	678.6	802.3	901.8
60°	386.8	392.3	395.3	403.4	416.5	431.7	462.0	507.4	580.6	683.6	782.1
62.5°	343.3	347.4	347.9	355.0	365.0	379.7	401.9	438.3	492.3	579.1	675.1
65°	301.9	301.9	304.0	311.5	316.6	329.7	347.9	375.7	422.1	492.3	574.6
67.5°	261.5	264.1	263.6	267.1	271.6	282.7	296.4	319.6	356.5	409.5	477.6
70°	222.2	224.2	223.7	226.2	231.2	237.8	248.4	270.1	294.9	338.8	395.3
72.5°	186.8	187.3	185.8	189.3	191.9	197.4	209.5	218.6	241.3	276.7	320.6
75°	148.4	149.5	150.5	152.5	155.5	158.5	164.6	176.2	191.4	219.1	248.9
77.5°	118.1	115.6	118.7	118.1	119.7	122.2	127.7	134.3	147.4	166.1	190.9
80°	83.8	84.3	84.3	84.8	87.3	88.9	93.4	98.0	107.5	120.7	136.8
82.5°	55.5	57.1	56.0	57.1	59.1	60.1	62.1	65.6	70.2	79.8	90.4
85°	33.3	30.8	31.8	32.8	32.8	33.3	35.3	36.9	39.9	43.9	48.5
87.5°	12.1	13.1	13.6	13.6	14.1	14.1	16.2	16.2	17.7	19.2	21.2
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°	1189.6	1189.6	1189.6	1189.6	1189.6	1189.6	1189.6	1189.6	1189.6	1189.6	1189.6
2.5°	1232.5	1228.9	1224.9	1217.8	1209.3	1204.7	1197.6	1193.1	1184.0	1176.4	1168.4
5°	1286.0	1272.9	1260.8	1245.1	1227.9	1216.8	1203.7	1189.1	1173.9	1158.3	1141.1
7.5°	1339.5	1317.8	1294.1	1269.3	1245.1	1222.4	1201.2	1179.5	1159.8	1135.0	1114.3
10°	1393.5	1364.3	1333.0	1296.1	1260.3	1228.9	1197.1	1169.4	1141.1	1110.8	1084.0
12.5°	1447.6	1406.2	1358.7	1317.3	1272.4	1233.0	1194.1	1156.7	1119.4	1085.0	1052.7
15°	1467.3	1432.9	1392.0	1334.5	1286.0	1234.0	1184.5	1138.6	1095.7	1058.3	1018.9
17.5°	1486.5	1442.5	1399.1	1343.6	1280.4	1224.4	1168.4	1118.4	1070.9	1024.0	988.1
20°	1491.0	1445.6	1399.6	1345.6	1280.4	1213.8	1157.8	1094.6	1042.6	993.7	947.2
22.5°	1489.5	1436.5	1385.5	1329.4	1266.3	1206.2	1135.5	1070.9	1013.4	965.4	916.4
25°	1478.4	1423.3	1360.7	1304.7	1242.1	1176.9	1108.3	1041.6	984.1	929.0	881.1
27.5°	1471.8	1402.1	1333.5	1268.8	1208.8	1148.7	1082.0	1013.4	950.2	894.2	849.8
30°	1457.2	1378.9	1299.1	1231.0	1168.9	1110.8	1048.7	982.0	915.4	860.9	812.4
32.5°	1444.0	1349.6	1264.3	1188.6	1121.9	1065.9	1009.8	947.2	882.1	826.5	778.1
35°	1426.4	1320.8	1224.4	1140.6	1070.4	1012.3	964.4	905.3	845.2	791.7	745.2
37.5°	1405.7	1283.5	1181.5	1094.1	1017.9	957.3	911.9	865.9	805.8	753.3	711.9
40°	1380.4	1243.1	1133.5	1043.6	963.9	900.3	858.8	815.9	768.0	720.0	675.6
42.5°	1348.6	1206.7	1085.0	986.6	907.8	846.2	802.3	767.5	726.6	682.6	642.2
45°	1308.2	1161.3	1032.0	928.0	848.2	787.2	742.2	715.0	683.1	640.7	605.9
47.5°	1254.7	1109.8	976.5	868.9	786.6	730.1	687.2	660.4	637.2	603.9	571.1
50°	1178.5	1050.7	915.4	808.9	726.6	669.5	630.6	606.9	587.7	563.5	536.7
52.5°	1093.1	976.5	855.3	750.3	669.0	613.0	575.1	554.9	539.7	524.1	497.8
55°	1001.7	900.8	785.6	685.7	610.4	555.4	522.1	503.9	490.8	477.6	461.5
57.5°	903.3	821.5	716.0	622.6	552.9	501.4	470.1	451.4	440.8	433.7	423.6
60°	798.3	730.6	642.7	559.4	491.8	447.3	417.1	403.4	394.8	389.3	382.2
62.5°	700.8	648.3	568.5	494.3	437.3	395.8	369.6	356.5	348.4	346.4	340.8
65°	605.4	562.5	495.3	432.2	381.7	345.9	323.1	310.5	305.5	302.4	302.9
67.5°	509.5	481.7	425.6	370.1	328.7	296.9	278.2	268.6	266.1	261.5	261.5
70°	423.1	403.4	358.0	311.0	275.2	251.9	235.8	225.7	223.2	221.2	220.6
72.5°	346.9	330.2	292.3	257.0	225.7	206.0	193.4	188.3	183.8	182.8	182.8
75°	272.1	262.6	231.2	201.5	179.2	165.1	156.0	150.5	147.4	146.9	147.4
77.5°	205.5	196.4	174.7	152.5	137.8	126.7	118.1	116.6	112.6	113.1	112.1
80°	145.4	139.9	127.2	110.6	99.0	89.9	85.8	82.3	81.3	79.8	81.3
82.5°	95.4	89.4	81.8	72.7	63.6	59.1	55.0	54.5	54.0	53.5	53.5
85°	52.0	52.5	47.5	39.4	35.3	32.3	29.8	29.8	29.3	28.8	29.3
87.5°	22.2	21.2	19.2	17.7	15.1	13.6	13.1	13.6	12.1	11.6	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°	1189.6	1189.6	1189.6	1189.6	1189.6	1189.6	1189.6	1189.6	1189.6	1189.6	1189.6
2.5°	1163.8	1158.3	1153.7	1143.6	1138.1	1130.5	1124.4	1131.0	1123.9	1127.0	1122.4
5°	1132.5	1118.4	1108.3	1093.6	1081.0	1069.4	1060.8	1059.3	1055.3	1053.2	1047.2
7.5°	1095.1	1079.0	1062.3	1044.2	1029.0	1012.8	1003.3	994.2	988.6	981.5	976.0
10°	1062.8	1039.1	1018.9	995.7	975.5	957.8	943.7	936.6	930.0	920.4	916.9
12.5°	1022.9	998.2	972.5	947.2	928.0	907.8	896.2	884.6	880.6	869.5	868.9
15°	992.7	955.8	931.6	906.3	879.6	863.4	853.3	841.7	836.6	829.1	823.5
17.5°	955.3	922.0	891.7	865.9	841.7	828.6	815.4	807.3	798.8	793.2	784.1
20°	913.9	882.6	852.3	824.5	806.8	791.2	781.1	773.5	764.4	761.9	752.8
22.5°	879.0	843.7	814.9	792.7	773.0	754.8	743.7	739.2	733.6	724.5	724.5
25°	840.7	804.8	780.1	756.9	739.7	723.5	716.0	709.4	703.3	697.8	695.8
27.5°	808.4	776.5	746.3	725.0	710.4	695.3	688.7	680.1	675.6	671.0	665.0
30°	774.0	741.2	715.5	695.3	679.1	666.0	658.9	653.4	649.3	645.3	642.2
32.5°	738.7	708.9	684.2	664.5	648.3	639.2	633.2	629.6	625.1	620.0	616.0
35°	708.4	675.1	650.8	633.7	621.0	613.5	606.4	602.9	597.8	597.8	593.8
37.5°	672.5	643.3	621.5	605.9	594.8	587.7	579.6	577.6	574.1	572.1	570.5
40°	641.2	614.5	594.3	578.6	566.5	561.0	554.9	550.9	548.8	546.3	545.3
42.5°	608.9	583.7	564.5	550.4	540.3	535.7	530.2	527.6	523.1	519.6	519.0
45°	576.1	551.4	533.7	522.1	513.0	507.4	503.9	497.8	495.8	491.8	491.3
47.5°	545.8	521.6	503.9	494.3	486.2	482.2	476.6	470.1	467.5	465.0	464.5
50°	511.0	489.3	473.1	464.0	456.4	449.9	444.3	440.3	438.8	438.8	439.8
52.5°	475.6	458.0	444.8	433.2	426.1	419.1	414.0	412.0	409.5	412.5	414.5
55°	441.3	422.6	412.5	401.9	394.8	386.8	384.2	383.2	381.7	385.8	387.8
57.5°	404.4	391.8	379.7	368.6	362.5	357.5	353.4	352.9	356.0	357.0	363.0
60°	369.6	354.4	343.8	335.8	328.2	325.2	324.2	323.1	325.2	330.7	339.3
62.5°	331.2	319.6	308.0	302.4	297.4	291.8	291.8	292.8	297.4	304.0	312.5
65°	293.9	283.3	275.7	268.6	264.1	261.0	262.0	264.1	268.6	277.2	286.8
67.5°	255.5	248.4	241.3	234.8	230.2	230.7	231.2	233.8	239.3	249.4	258.5
70°	218.6	210.5	205.0	202.5	198.9	196.9	199.9	205.0	209.5	218.6	226.2
72.5°	181.8	175.2	171.2	169.6	168.6	167.1	167.6	173.2	179.7	188.8	197.9
75°	145.4	142.9	139.9	137.8	136.3	137.3	138.3	143.4	148.4	158.0	168.1
77.5°	112.6	109.6	107.5	107.0	106.0	106.5	109.1	113.1	118.1	125.2	133.3
80°	80.3	79.3	78.3	77.8	77.8	78.3	82.3	84.8	89.4	95.9	102.0
82.5°	53.0	52.5	52.5	52.5	53.0	53.0	55.0	58.6	62.1	66.6	71.7
85°	30.8	29.8	31.3	31.8	30.8	32.3	33.3	35.3	36.9	39.4	41.9
87.5°	12.6	13.6	13.1	13.6	13.6	14.6	14.1	16.2	17.2	18.2	17.7
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: P242817

CATALOG NUMBER: S125DRP-S850D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1189.6	1189.6	1189.6	1189.6
2.5°	1119.4	1122.9	1119.9	1123.9
5°	1044.7	1040.1	1043.1	1041.1
7.5°	975.5	971.4	965.4	963.4
10°	911.4	905.8	905.3	901.8
12.5°	864.4	859.4	852.3	851.3
15°	820.5	816.4	812.9	815.9
17.5°	783.1	779.6	778.6	775.5
20°	748.3	745.8	746.8	740.2
22.5°	720.5	715.0	713.9	713.9
25°	691.2	688.7	686.2	688.7
27.5°	665.5	662.9	661.9	662.4
30°	642.2	637.2	637.7	637.2
32.5°	617.0	614.0	613.0	611.9
35°	592.3	592.3	589.7	589.7
37.5°	569.5	569.0	567.5	568.5
40°	543.3	542.8	541.3	538.2
42.5°	518.0	516.0	515.5	515.0
45°	491.3	491.3	490.3	489.8
47.5°	465.0	466.0	468.1	467.5
50°	441.8	442.3	443.8	444.3
52.5°	416.0	419.6	421.6	421.1
55°	392.3	395.8	399.4	399.9
57.5°	368.6	373.1	376.7	377.7
60°	344.3	350.9	355.5	357.5
62.5°	321.1	328.7	333.2	333.2
65°	295.4	302.9	307.0	310.0
67.5°	268.6	276.2	280.2	282.7
70°	238.8	246.4	252.5	254.5
72.5°	209.5	216.1	220.6	223.2
75°	174.7	183.8	188.3	190.9
77.5°	141.4	150.5	153.0	154.5
80°	108.1	113.1	116.6	117.1
82.5°	76.7	80.8	81.3	82.8
85°	45.4	47.5	48.0	47.5
87.5°	18.7	18.2	18.2	19.2
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242817
 CATALOG NUMBER: S125DRP-S850D840-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	18.07	19.64	18.44	19.95	20.27	18.05	19.61	18.41	19.93	20.24
	3H	19.44	20.85	19.82	21.18	21.54	19.47	20.89	19.85	21.21	21.57
	4H	19.94	21.26	20.34	21.61	21.99	19.96	21.29	20.36	21.64	22.01
	6H	20.27	21.50	20.69	21.86	22.26	20.28	21.50	20.69	21.87	22.26
	8H	20.36	21.53	20.79	21.92	22.32	20.36	21.53	20.78	21.91	22.31
	12H	20.41	21.53	20.84	21.91	22.34	20.40	21.52	20.83	21.90	22.33
4H	2H	19.58	20.90	19.98	21.25	21.63	19.12	20.45	19.52	20.80	21.17
	3H	20.92	22.03	21.33	22.43	22.83	20.79	21.89	21.20	22.29	22.69
	4H	21.43	22.43	21.86	22.84	23.28	21.34	22.34	21.77	22.75	23.19
	6H	21.81	22.67	22.26	23.11	23.57	21.72	22.58	22.17	23.02	23.48
	8H	21.91	22.72	22.37	23.16	23.63	21.81	22.62	22.27	23.06	23.53
	12H	21.97	22.70	22.45	23.17	23.64	21.87	22.59	22.35	23.07	23.54
8H	4H	21.92	22.73	22.38	23.17	23.64	21.68	22.49	22.14	22.94	23.40
	6H	22.37	23.04	22.86	23.53	24.00	22.18	22.86	22.68	23.35	23.82
	8H	22.51	23.11	23.02	23.62	24.11	22.33	22.93	22.84	23.44	23.93
	12H	22.61	23.15	23.12	23.64	24.20	22.43	22.96	22.94	23.45	24.02
12H	4H	21.96	22.69	22.44	23.17	23.64	21.70	22.43	22.18	22.90	23.37
	6H	22.45	23.05	22.96	23.56	24.05	22.23	22.83	22.74	23.34	23.83
	8H	22.64	23.17	23.15	23.67	24.23	22.44	22.97	22.95	23.46	24.02