

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: P242813

Luminaire Tested: S125DRP-S1090D835-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242813
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-S1090D835-X4F0-XX-UDD-A-W
Description: DEFINE 5 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

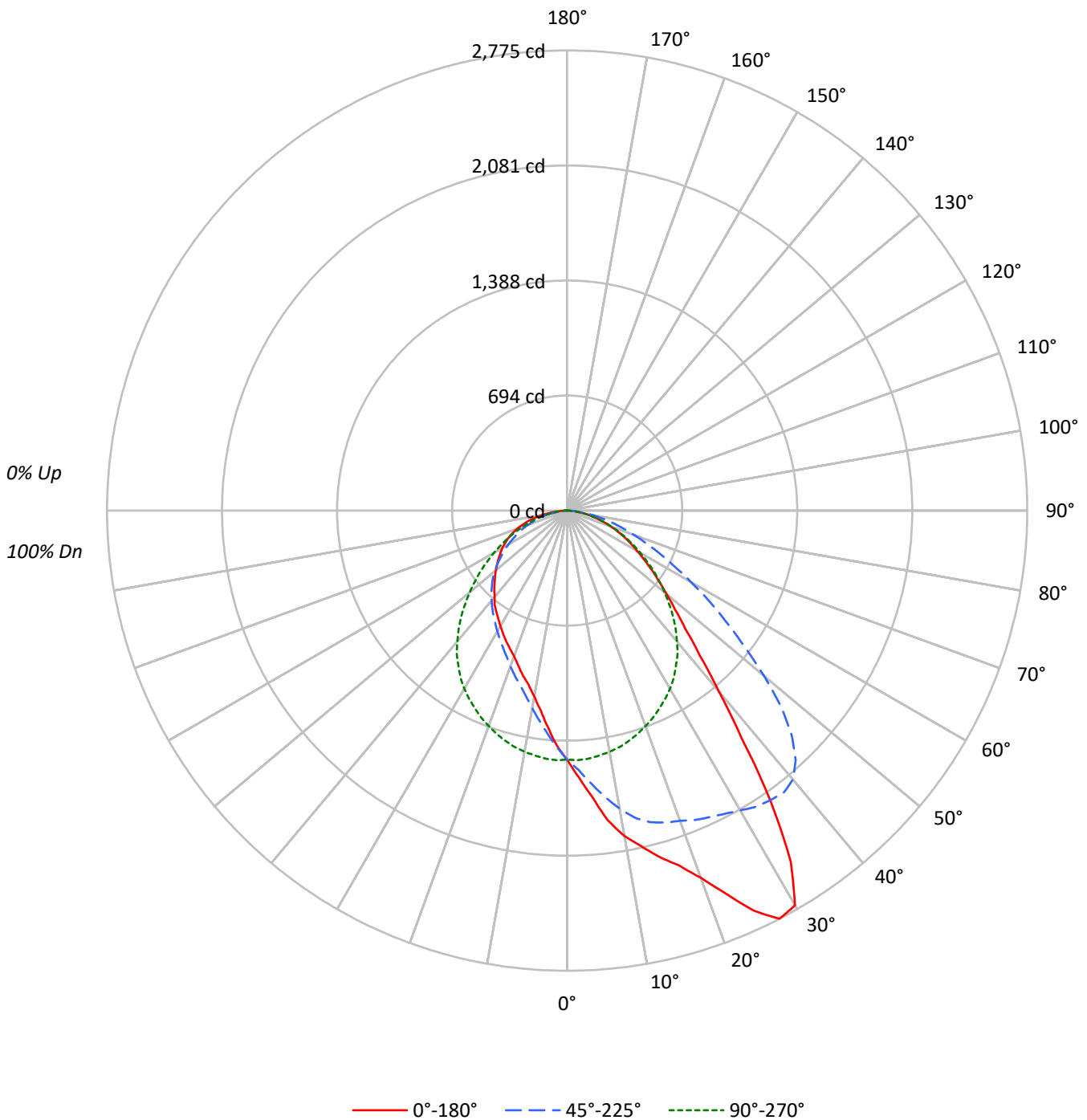
Lumens per Lamp: N/A
Luminaire Lumens: 4239.1 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.53
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 34.8
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°	10677	10677	10677	10677	10677
5°	12364	11777	10712	9634	9380
10°	14384	13170	10657	8729	8218
15°	15923	14314	10579	8022	7582
20°	17823	15056	10455	7557	7070
25°	20880	15996	10315	7165	6820
30°	22552	17132	10177	6902	6603
35°	18543	18504	9919	6722	6461
40°	13180	19652	9560	6573	6306
45°	10126	19232	9074	6441	6217
50°	8643	17110	8474	6282	6204
55°	7695	14529	7885	6052	6258
60°	6942	12272	7241	5837	6417
65°	6412	10455	6594	5543	6584
70°	5829	8890	5922	5168	6677
75°	5149	7598	5218	4762	6618
80°	4330	6238	4253	4044	6053
85°	3433	4526	3066	3327	4885

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 19232 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.6	3.4
10°-20°	430.6	10.2
20°-30°	699.5	16.5
30°-40°	854.9	20.2
40°-50°	775.6	18.3
50°-60°	617.7	14.6
60°-70°	430.2	10.1
70°-80°	229.2	5.4
80°-90°	56.8	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°	1274.7	30.1
0°-40°	2129.6	50.2
0°-60°	3522.9	83.1
0°-90°	4239.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4239.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1502	1502	1502	1502	1502	
5°	1733	1651	1502	1350	1315	174
15°	2164	1945	1438	1090	1030	619
25°	2663	2040	1315	914	870	1220
35°	2137	2133	1143	775	745	1311
45°	1007	1913	903	641	618	802
55°	621	1172	636	488	505	558
65°	381	622	392	330	392	378
75°	188	277	190	173	241	202
85°	42	56	38	41	60	49
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°	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2
2.5°	1610.6	1608.0	1605.5	1600.4	1604.2	1593.3	1588.2	1579.3	1568.5	1564.7	1560.2
5°	1733.0	1736.2	1739.4	1726.0	1727.2	1718.3	1697.9	1681.3	1667.9	1650.7	1638.6
7.5°	1884.7	1875.2	1875.8	1867.5	1852.8	1840.7	1821.0	1793.5	1768.7	1740.6	1716.4
10°	1993.1	1993.8	1988.0	1977.8	1961.9	1950.4	1922.3	1895.6	1863.0	1824.8	1797.4
12.5°	2074.7	2077.9	2070.3	2055.6	2049.9	2020.5	2000.1	1967.0	1926.8	1898.1	1852.8
15°	2164.0	2157.0	2151.9	2134.7	2121.3	2094.5	2059.4	2026.3	1984.2	1945.3	1906.4
17.5°	2243.1	2248.8	2240.5	2227.8	2188.2	2157.0	2113.6	2071.5	2021.2	1972.7	1927.4
20°	2356.5	2361.6	2347.0	2319.6	2269.8	2238.6	2176.7	2118.1	2057.5	1990.6	1939.6
22.5°	2498.1	2491.7	2470.7	2425.4	2384.0	2319.6	2251.3	2176.7	2097.0	2019.3	1947.2
25°	2662.6	2635.8	2623.7	2572.1	2515.3	2430.5	2338.7	2234.1	2139.8	2039.7	1952.9
27.5°	2774.8	2764.0	2746.8	2704.7	2639.6	2543.4	2435.0	2310.0	2183.1	2060.7	1951.7
30°	2748.0	2749.3	2750.6	2739.1	2700.8	2632.6	2524.9	2387.8	2229.7	2087.5	1956.1
32.5°	2510.8	2539.5	2567.0	2602.7	2625.6	2626.2	2568.9	2448.4	2284.5	2118.1	1953.6
35°	2137.2	2144.2	2216.3	2287.7	2384.6	2459.8	2510.2	2455.4	2318.3	2132.7	1951.7
37.5°	1727.9	1762.9	1817.1	1897.5	2042.8	2161.4	2317.0	2370.6	2306.2	2144.9	1951.0
40°	1420.6	1452.4	1485.0	1567.2	1685.2	1836.9	2019.9	2176.1	2212.4	2118.1	1931.9
42.5°	1183.4	1207.0	1243.9	1300.7	1394.4	1524.5	1697.3	1913.4	2061.3	2040.3	1891.7
45°	1007.4	1023.3	1051.4	1100.5	1171.9	1277.1	1431.4	1654.6	1849.0	1913.4	1823.5
47.5°	882.4	883.1	906.0	941.1	995.3	1092.2	1207.6	1391.2	1601.0	1749.6	1728.5
50°	781.7	778.5	795.7	825.0	865.9	925.1	1034.2	1173.8	1373.4	1547.4	1595.9
52.5°	695.0	696.3	705.2	724.9	757.5	805.9	880.5	1002.9	1166.2	1346.0	1448.0
55°	621.0	618.5	630.6	645.2	670.1	703.3	761.9	858.2	996.6	1172.5	1291.1
57.5°	549.6	556.6	561.7	571.9	593.6	616.6	668.8	742.8	856.9	1013.1	1138.7
60°	488.4	495.4	499.2	509.4	526.0	545.1	583.4	640.8	733.2	863.3	987.6
62.5°	433.6	438.7	439.3	448.2	461.0	479.5	507.5	553.4	621.7	731.3	852.5
65°	381.3	381.3	383.8	393.4	399.8	416.3	439.3	474.4	533.0	621.7	725.6
67.5°	330.3	333.5	332.8	337.3	343.0	357.1	374.3	403.6	450.1	517.1	603.2
70°	280.5	283.1	282.5	285.6	292.0	300.3	313.7	341.1	372.4	427.8	499.2
72.5°	235.9	236.5	234.6	239.1	242.3	249.3	264.6	276.1	304.8	349.4	404.9
75°	187.5	188.7	190.0	192.6	196.4	200.2	207.9	222.5	241.6	276.7	314.3
77.5°	149.2	146.0	149.8	149.2	151.1	154.3	161.3	169.6	186.2	209.8	241.0
80°	105.8	106.5	106.5	107.1	110.3	112.2	118.0	123.7	135.8	152.4	172.8
82.5°	70.1	72.0	70.8	72.0	74.6	75.9	78.4	82.9	88.6	100.7	114.1
85°	42.1	38.9	40.2	41.4	41.4	42.1	44.6	46.5	50.4	55.5	61.2
87.5°	15.3	16.6	17.2	17.2	17.9	17.9	20.4	20.4	22.3	24.2	26.8
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°	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2
2.5°	1556.4	1551.9	1546.8	1537.9	1527.0	1521.3	1512.4	1506.6	1495.2	1485.6	1475.4
5°	1623.9	1607.4	1592.1	1572.3	1550.6	1536.6	1520.0	1501.5	1482.4	1462.6	1441.0
7.5°	1691.5	1664.1	1634.2	1602.9	1572.3	1543.6	1516.8	1489.4	1464.6	1433.3	1407.2
10°	1759.8	1722.8	1683.2	1636.7	1591.4	1551.9	1511.7	1476.7	1441.0	1402.7	1368.9
12.5°	1828.0	1775.7	1715.8	1663.5	1606.7	1557.0	1507.9	1460.7	1413.5	1370.2	1329.4
15°	1852.8	1809.5	1757.8	1685.2	1623.9	1558.3	1495.8	1437.8	1383.6	1336.4	1286.7
17.5°	1877.1	1821.6	1766.8	1696.6	1616.9	1546.2	1475.4	1412.3	1352.3	1293.0	1247.8
20°	1882.8	1825.4	1767.4	1699.2	1616.9	1532.8	1462.0	1382.3	1316.6	1254.8	1196.1
22.5°	1880.9	1814.0	1749.6	1678.8	1599.1	1523.2	1433.9	1352.3	1279.6	1219.1	1157.2
25°	1866.9	1797.4	1718.3	1647.5	1568.5	1486.2	1399.5	1315.4	1242.7	1173.2	1112.6
27.5°	1858.6	1770.6	1683.9	1602.3	1526.4	1450.5	1366.4	1279.6	1200.0	1129.2	1073.1
30°	1840.1	1741.3	1640.5	1554.5	1476.0	1402.7	1324.3	1240.1	1156.0	1087.1	1025.9
32.5°	1823.5	1704.3	1596.5	1500.9	1416.7	1346.0	1275.2	1196.1	1113.9	1043.7	982.5
35°	1801.2	1667.9	1546.2	1440.3	1351.7	1278.4	1217.8	1143.2	1067.3	999.7	941.1
37.5°	1775.1	1620.8	1492.0	1381.7	1285.4	1208.9	1151.5	1093.5	1017.6	951.3	899.0
40°	1743.2	1569.8	1431.4	1317.9	1217.2	1136.8	1084.5	1030.4	969.8	909.2	853.1
42.5°	1703.0	1523.8	1370.2	1245.9	1146.4	1068.6	1013.1	969.1	917.5	862.0	811.0
45°	1652.0	1466.5	1303.2	1171.9	1071.2	994.0	937.3	902.8	862.7	809.1	765.1
47.5°	1584.4	1401.4	1233.1	1097.3	993.4	922.0	867.8	834.0	804.6	762.6	721.1
50°	1488.1	1326.8	1156.0	1021.4	917.5	845.4	796.4	766.4	742.2	711.6	677.8
52.5°	1380.4	1233.1	1080.1	947.5	844.8	774.0	726.2	700.7	681.6	661.8	628.7
55°	1265.0	1137.5	992.1	865.9	770.9	701.4	659.3	636.3	619.7	603.2	582.8
57.5°	1140.7	1037.4	904.1	786.2	698.2	633.1	593.6	570.0	556.6	547.7	534.9
60°	1008.0	922.6	811.7	706.5	621.0	564.9	526.7	509.4	498.6	491.6	482.7
62.5°	885.0	818.7	717.9	624.2	552.2	499.9	466.7	450.1	439.9	437.4	430.4
65°	764.5	710.3	625.5	545.8	482.0	436.8	408.1	392.1	385.7	381.9	382.6
67.5°	643.3	608.3	537.5	467.4	415.1	374.9	351.3	339.2	336.0	330.3	330.3
70°	534.3	509.4	452.1	392.8	347.5	318.2	297.8	285.0	281.8	279.3	278.6
72.5°	438.0	417.0	369.2	324.5	285.0	260.1	244.2	237.8	232.1	230.8	230.8
75°	343.7	331.5	292.0	254.4	226.3	208.5	197.0	190.0	186.2	185.5	186.2
77.5°	259.5	248.0	220.6	192.6	174.1	160.0	149.2	147.3	142.2	142.8	141.5
80°	183.6	176.6	160.7	139.6	125.0	113.5	108.4	103.9	102.7	100.7	102.7
82.5°	120.5	112.9	103.3	91.8	80.3	74.6	69.5	68.9	68.2	67.6	67.6
85°	65.7	66.3	59.9	49.7	44.6	40.8	37.6	37.6	37.0	36.3	37.0
87.5°	28.1	26.8	24.2	22.3	19.1	17.2	16.6	17.2	15.3	14.7	15.3
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°	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2
2.5°	1469.7	1462.6	1456.9	1444.1	1437.1	1427.6	1419.9	1428.2	1419.3	1423.1	1417.4
5°	1430.1	1412.3	1399.5	1381.0	1365.1	1350.4	1339.6	1337.7	1332.6	1330.0	1322.4
7.5°	1382.9	1362.5	1341.5	1318.5	1299.4	1279.0	1266.9	1255.4	1248.4	1239.5	1232.5
10°	1342.1	1312.2	1286.7	1257.3	1231.8	1209.5	1191.7	1182.7	1174.4	1162.3	1157.9
12.5°	1291.8	1260.5	1228.0	1196.1	1171.9	1146.4	1131.7	1117.1	1112.0	1097.9	1097.3
15°	1253.5	1207.0	1176.4	1144.5	1110.7	1090.3	1077.5	1062.9	1056.5	1046.9	1039.9
17.5°	1206.3	1164.2	1126.0	1093.5	1062.9	1046.3	1029.7	1019.5	1008.7	1001.7	990.2
20°	1154.0	1114.5	1076.3	1041.2	1018.9	999.1	986.4	976.8	965.3	962.1	950.7
22.5°	1110.0	1065.4	1029.1	1001.0	976.2	953.2	939.2	933.4	926.4	914.9	914.9
25°	1061.6	1016.3	985.1	955.8	934.1	913.7	904.1	895.8	888.2	881.2	878.6
27.5°	1020.8	980.6	942.4	915.6	897.1	878.0	869.7	858.8	853.1	847.4	839.7
30°	977.4	936.0	903.5	878.0	857.6	841.0	832.1	825.0	819.9	814.8	811.0
32.5°	932.8	895.2	863.9	839.1	818.7	807.2	799.5	795.1	789.3	783.0	777.9
35°	894.5	852.5	821.9	800.2	784.2	774.7	765.7	761.3	754.9	754.9	749.8
37.5°	849.3	812.3	784.9	765.1	751.1	742.2	732.0	729.4	724.9	722.4	720.5
40°	809.7	776.0	750.4	730.7	715.4	708.4	700.7	695.6	693.1	689.9	688.6
42.5°	768.9	737.1	712.8	695.0	682.2	676.5	669.5	666.3	660.5	656.1	655.4
45°	727.5	696.3	673.9	659.3	647.8	640.8	636.3	628.7	626.1	621.0	620.4
47.5°	689.2	658.6	636.3	624.2	614.0	608.9	601.9	593.6	590.4	587.2	586.6
50°	645.2	617.8	597.4	585.9	576.4	568.1	561.1	556.0	554.1	554.1	555.3
52.5°	600.6	578.3	561.7	547.1	538.1	529.2	522.8	520.3	517.1	520.9	523.5
55°	557.3	533.7	520.9	507.5	498.6	488.4	485.2	483.9	482.0	487.1	489.7
57.5°	510.7	494.8	479.5	465.4	457.8	451.4	446.3	445.7	449.5	450.8	458.4
60°	466.7	447.6	434.2	424.0	414.4	410.6	409.3	408.1	410.6	417.6	428.5
62.5°	418.3	403.6	388.9	381.9	375.5	368.5	368.5	369.8	375.5	383.8	394.7
65°	371.1	357.7	348.1	339.2	333.5	329.6	330.9	333.5	339.2	350.0	362.2
67.5°	322.6	313.7	304.8	296.5	290.7	291.4	292.0	295.2	302.2	315.0	326.4
70°	276.1	265.9	258.9	255.7	251.2	248.7	252.5	258.9	264.6	276.1	285.6
72.5°	229.5	221.2	216.1	214.2	213.0	211.0	211.7	218.7	227.0	238.5	249.9
75°	183.6	180.4	176.6	174.1	172.2	173.4	174.7	181.1	187.5	199.6	212.3
77.5°	142.2	138.4	135.8	135.2	133.9	134.5	137.7	142.8	149.2	158.1	168.3
80°	101.4	100.1	98.8	98.2	98.2	98.8	103.9	107.1	112.9	121.1	128.8
82.5°	66.9	66.3	66.3	66.3	66.9	66.9	69.5	74.0	78.4	84.2	90.5
85°	38.9	37.6	39.5	40.2	38.9	40.8	42.1	44.6	46.5	49.7	52.9
87.5°	15.9	17.2	16.6	17.2	17.2	18.5	17.9	20.4	21.7	23.0	22.3
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: P242813

CATALOG NUMBER: S125DRP-S1090D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1502.2	1502.2	1502.2	1502.2
2.5°	1413.5	1418.0	1414.2	1419.3
5°	1319.2	1313.4	1317.3	1314.7
7.5°	1231.8	1226.7	1219.1	1216.5
10°	1150.9	1143.8	1143.2	1138.7
12.5°	1091.6	1085.2	1076.3	1075.0
15°	1036.1	1031.0	1026.5	1030.4
17.5°	988.9	984.4	983.2	979.3
20°	944.9	941.7	943.0	934.7
22.5°	909.8	902.8	901.6	901.6
25°	872.9	869.7	866.5	869.7
27.5°	840.3	837.2	835.9	836.5
30°	811.0	804.6	805.3	804.6
32.5°	779.1	775.3	774.0	772.8
35°	747.9	747.9	744.7	744.7
37.5°	719.2	718.6	716.7	717.9
40°	686.1	685.4	683.5	679.7
42.5°	654.2	651.6	651.0	650.3
45°	620.4	620.4	619.1	618.5
47.5°	587.2	588.5	591.0	590.4
50°	557.9	558.5	560.4	561.1
52.5°	525.4	529.8	532.4	531.8
55°	495.4	499.9	504.3	505.0
57.5°	465.4	471.2	475.6	476.9
60°	434.8	443.1	448.9	451.4
62.5°	405.5	415.1	420.8	420.8
65°	373.0	382.6	387.7	391.5
67.5°	339.2	348.8	353.9	357.1
70°	301.6	311.1	318.8	321.3
72.5°	264.6	272.9	278.6	281.8
75°	220.6	232.1	237.8	241.0
77.5°	178.5	190.0	193.2	195.1
80°	136.4	142.8	147.3	147.9
82.5°	96.9	102.0	102.7	104.6
85°	57.4	59.9	60.6	59.9
87.5°	23.6	23.0	23.0	24.2
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242813
 CATALOG NUMBER: S125DRP-S1090D835-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	18.88	20.45	19.25	20.77	21.08	18.86	20.43	19.22	20.74	21.05
	3H	20.25	21.66	20.63	21.99	22.35	20.29	21.70	20.66	22.02	22.38
	4H	20.75	22.07	21.15	22.42	22.80	20.77	22.10	21.17	22.45	22.82
	6H	21.08	22.31	21.50	22.68	23.07	21.09	22.31	21.50	22.68	23.07
	8H	21.18	22.34	21.60	22.73	23.13	21.17	22.34	21.59	22.73	23.13
	12H	21.22	22.34	21.65	22.72	23.15	21.21	22.33	21.64	22.71	23.14
4H	2H	20.39	21.72	20.79	22.06	22.44	19.94	21.26	20.33	21.61	21.99
	3H	21.74	22.84	22.15	23.24	23.64	21.60	22.70	22.01	23.10	23.50
	4H	22.24	23.24	22.67	23.65	24.09	22.15	23.15	22.58	23.56	24.00
	6H	22.62	23.48	23.07	23.92	24.38	22.53	23.39	22.98	23.83	24.29
	8H	22.72	23.53	23.18	23.97	24.44	22.62	23.43	23.08	23.88	24.34
	12H	22.78	23.51	23.26	23.98	24.45	22.68	23.40	23.16	23.88	24.35
8H	4H	22.73	23.54	23.19	23.98	24.45	22.49	23.30	22.96	23.75	24.21
	6H	23.18	23.85	23.67	24.34	24.82	23.00	23.67	23.49	24.16	24.63
	8H	23.32	23.92	23.83	24.43	24.92	23.14	23.74	23.65	24.25	24.74
	12H	23.42	23.96	23.93	24.45	25.01	23.24	23.77	23.75	24.26	24.83
12H	4H	22.77	23.50	23.25	23.98	24.45	22.51	23.24	22.99	23.71	24.18
	6H	23.26	23.86	23.77	24.37	24.86	23.04	23.65	23.55	24.15	24.64
	8H	23.45	23.98	23.96	24.48	25.04	23.25	23.78	23.76	24.27	24.84