

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: P242641

Luminaire Tested: S124DRP-S1020D835-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DRP-S1020D835-X4F0-XX-UDD-A-W
Description: DEFINE 4 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

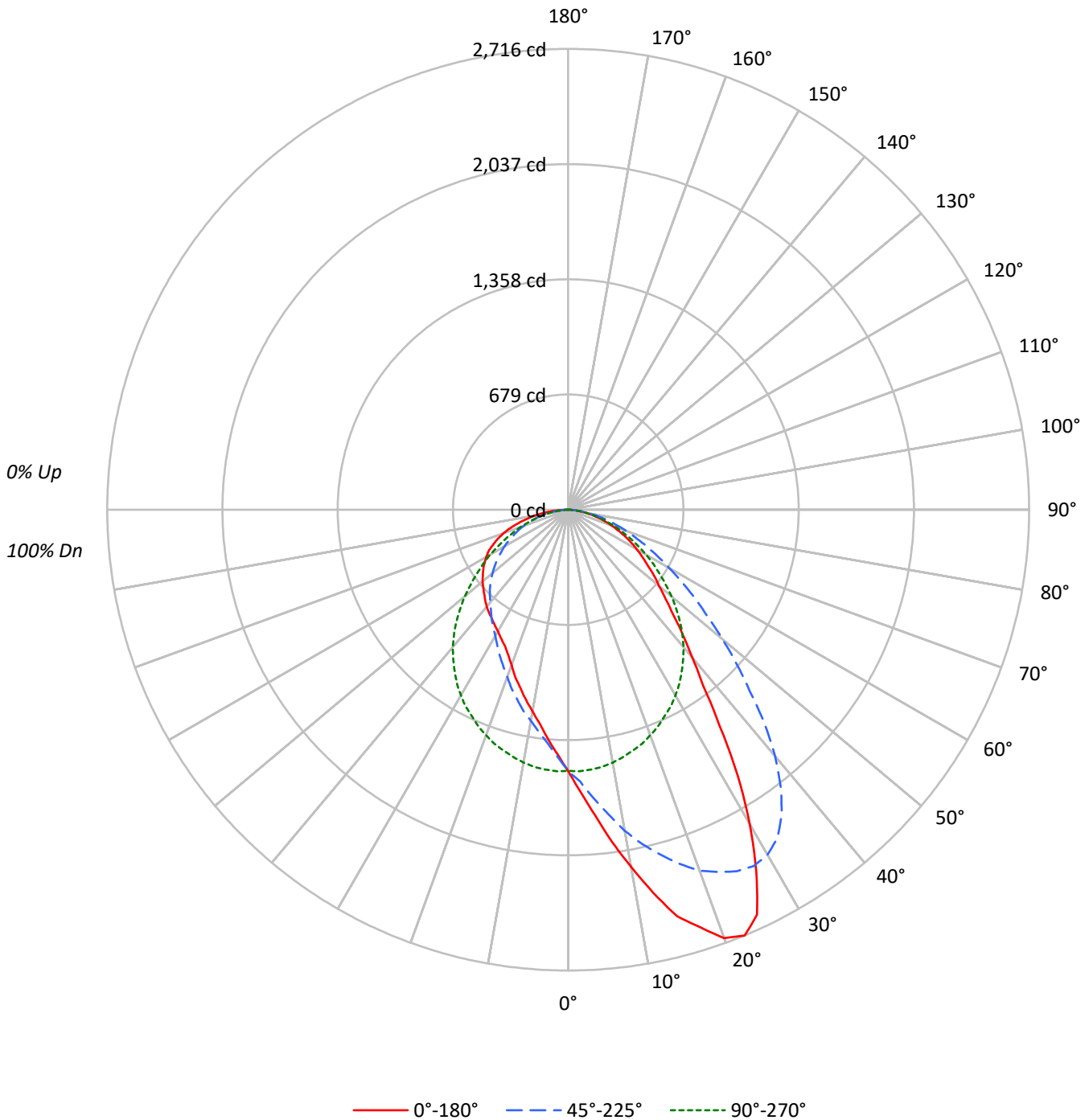
Lumens per Lamp: N/A
Luminaire Lumens: 4247.4 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.22 / 1.41
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

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	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	62					62			
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53					53			
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49	46					46			
6	72	59	51	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41					41			
7	67	54	45	39	65	53	45	39	52	44	39	50	44	39	49	43	38	36					36			
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33					33			
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30					30			
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27					27			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	13682	13682	13682	13682	13682
5°	16113	15220	13717	12329	12107
10°	19291	17341	13657	11407	10901
15°	22826	19369	13519	10656	10010
20°	25417	21412	13378	9916	9216
25°	25828	23057	13170	9337	8668
30°	21977	24097	12972	8816	8495
35°	16897	23795	12648	8531	8497
40°	13170	21989	12267	8294	8656
45°	10981	19028	11695	8192	8801
50°	9663	16409	10995	8041	9099
55°	8854	14121	10159	7896	9466
60°	8297	12220	9408	7696	9908
65°	7725	10676	8569	7444	10272
70°	7059	9429	7740	7241	10508
75°	6306	8126	6810	6766	10379
80°	5288	6593	5580	6168	10054
85°	3906	5008	4029	5722	9628

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 21008 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.8	3.5
10°-20°	462.4	10.9
20°-30°	734.6	17.3
30°-40°	816.2	19.2
40°-50°	742.3	17.5
50°-60°	606.5	14.3
60°-70°	433.0	10.2
70°-80°	238.2	5.6
80°-90°	64.4	1.5
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°	1346.7	31.7
0°-40°	2162.9	50.9
0°-60°	3511.8	82.7
0°-90°	4247.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4247.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1539	1539	1539	1539	1539	
5°	1806	1706	1537	1382	1357	183
15°	2480	2105	1469	1158	1088	701
25°	2633	2351	1343	952	884	1168
35°	1557	2193	1166	786	783	986
45°	874	1514	930	652	700	686
55°	571	911	656	510	611	516
65°	367	508	407	354	488	363
75°	184	237	198	197	302	195
85°	38	49	40	56	94	47
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°	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2
2.5°	1662.9	1662.3	1655.9	1654.6	1650.2	1644.4	1643.2	1633.0	1612.6	1603.0	1600.4
5°	1805.8	1818.5	1801.9	1798.7	1796.8	1775.8	1765.0	1752.2	1722.9	1705.7	1692.3
7.5°	1972.8	1973.5	1966.4	1959.4	1947.3	1929.5	1905.2	1877.2	1843.4	1808.9	1784.7
10°	2137.3	2142.4	2134.1	2132.9	2100.3	2079.9	2039.1	2004.7	1965.2	1921.2	1881.0
12.5°	2310.8	2300.6	2297.4	2263.6	2264.2	2222.8	2173.7	2138.0	2071.7	2019.4	1962.6
15°	2480.4	2466.3	2457.4	2419.8	2401.3	2349.7	2299.3	2260.4	2180.7	2104.8	2047.4
17.5°	2578.6	2595.8	2572.8	2557.5	2507.1	2473.4	2423.0	2343.3	2284.0	2189.6	2123.9
20°	2687.0	2688.2	2676.8	2660.8	2623.2	2577.3	2521.2	2431.9	2357.3	2263.6	2164.1
22.5°	2716.3	2716.3	2713.1	2698.4	2672.3	2637.2	2580.5	2509.7	2415.3	2311.4	2211.9
25°	2633.4	2630.8	2636.6	2653.2	2642.3	2630.8	2598.3	2542.9	2458.7	2350.9	2243.8
27.5°	2398.8	2415.3	2449.8	2490.6	2519.9	2546.0	2544.1	2520.5	2460.6	2367.5	2253.4
30°	2141.2	2162.8	2187.1	2227.9	2306.9	2352.2	2401.9	2439.6	2418.5	2347.7	2243.2
32.5°	1858.0	1859.3	1898.2	1946.0	2016.8	2114.4	2200.5	2286.5	2323.5	2294.8	2211.9
35°	1557.1	1566.0	1604.9	1650.8	1739.4	1845.9	1964.5	2070.4	2157.7	2192.8	2148.2
37.5°	1304.6	1332.6	1362.0	1414.3	1495.2	1591.5	1719.0	1851.0	1979.2	2057.0	2065.3
40°	1135.0	1150.9	1170.7	1208.3	1274.6	1369.0	1474.8	1631.7	1770.1	1895.0	1935.8
42.5°	1001.1	1008.7	1018.9	1052.1	1098.6	1192.4	1286.7	1420.0	1559.0	1714.6	1789.8
45°	873.5	883.1	903.5	923.3	961.5	1026.6	1116.5	1230.0	1369.6	1513.7	1640.0
47.5°	777.9	784.3	797.0	818.7	853.1	897.1	973.7	1069.9	1206.4	1346.0	1481.2
50°	698.8	703.9	713.5	732.6	757.5	795.8	855.7	944.3	1045.7	1186.6	1318.6
52.5°	636.4	637.6	644.0	655.5	674.0	704.6	751.1	820.6	913.1	1034.9	1166.2
55°	571.3	573.9	580.2	589.8	607.0	627.4	665.0	719.9	802.1	911.2	1025.3
57.5°	517.8	520.3	525.4	529.2	544.5	561.7	592.4	631.9	696.3	793.2	897.1
60°	466.7	465.5	471.8	475.0	484.6	498.6	520.9	558.6	612.8	687.4	781.1
62.5°	417.0	415.1	420.2	424.7	429.1	440.6	457.8	485.2	526.7	592.4	670.1
65°	367.3	364.7	367.9	373.0	378.1	384.5	397.9	424.0	459.1	507.6	569.4
67.5°	316.3	319.5	319.5	322.6	325.8	334.8	344.3	364.7	389.6	429.1	484.0
70°	271.6	272.3	274.8	274.8	276.7	284.4	292.0	302.9	327.1	362.8	405.5
72.5°	227.0	230.2	228.3	230.8	232.1	236.6	241.7	251.9	271.6	295.9	330.3
75°	183.6	185.5	185.5	186.2	188.1	190.0	194.5	202.1	216.8	236.6	261.4
77.5°	141.6	141.6	142.8	145.4	145.4	148.6	152.4	158.1	166.4	181.1	197.0
80°	103.3	104.6	103.9	105.2	105.2	107.8	109.0	116.7	119.9	128.8	140.9
82.5°	68.9	70.1	70.1	72.1	73.3	73.3	75.2	77.2	80.3	88.0	91.2
85°	38.3	39.5	38.3	39.5	41.4	42.1	44.0	44.6	47.2	49.1	53.6
87.5°	14.0	15.9	15.9	16.6	17.9	18.5	19.1	18.5	21.0	21.7	24.2
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°	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2
2.5°	1601.1	1592.2	1585.8	1580.7	1566.6	1558.4	1552.0	1543.1	1532.9	1522.0	1508.6
5°	1678.9	1657.2	1641.3	1617.0	1594.1	1574.9	1555.2	1537.3	1515.6	1492.0	1474.8
7.5°	1758.6	1728.6	1688.4	1657.2	1619.6	1587.1	1558.4	1528.4	1496.5	1465.9	1437.2
10°	1833.8	1792.4	1746.5	1692.3	1641.3	1596.0	1553.9	1513.1	1473.6	1434.0	1400.2
12.5°	1914.8	1860.6	1787.3	1721.6	1662.9	1598.5	1545.6	1493.3	1443.6	1401.5	1360.7
15°	1985.6	1911.0	1832.5	1747.7	1672.5	1601.7	1532.2	1469.1	1415.5	1360.7	1322.4
17.5°	2030.2	1937.7	1853.6	1765.0	1678.2	1589.6	1517.6	1446.8	1380.5	1326.9	1279.1
20°	2074.2	1982.4	1870.8	1782.2	1673.8	1582.0	1495.2	1414.3	1344.1	1286.1	1236.4
22.5°	2112.5	2002.8	1891.2	1767.5	1659.7	1560.9	1464.0	1382.4	1310.3	1248.5	1201.3
25°	2121.4	1999.6	1878.4	1762.4	1640.0	1524.6	1438.5	1342.8	1266.3	1201.9	1150.9
27.5°	2124.6	1995.8	1861.2	1735.0	1608.7	1503.5	1391.3	1307.8	1228.7	1160.5	1112.0
30°	2117.6	1981.7	1834.5	1694.8	1567.9	1451.2	1356.9	1263.8	1182.8	1115.2	1064.2
32.5°	2095.2	1952.4	1800.0	1650.2	1517.6	1404.1	1305.9	1218.5	1140.1	1073.8	1019.6
35°	2048.1	1908.4	1747.1	1593.4	1458.9	1343.5	1255.5	1165.6	1086.5	1023.4	971.7
37.5°	1984.9	1854.9	1691.0	1530.9	1401.5	1284.2	1195.6	1112.7	1041.2	976.2	922.6
40°	1896.9	1786.0	1621.5	1466.5	1323.7	1213.4	1131.8	1057.2	986.4	925.8	875.5
42.5°	1795.6	1702.5	1553.9	1387.5	1251.0	1140.1	1061.0	996.0	930.3	875.5	825.1
45°	1671.2	1607.5	1464.6	1312.9	1169.4	1064.8	989.0	930.3	874.2	819.4	777.3
47.5°	1532.9	1497.1	1372.8	1227.4	1089.7	985.1	919.5	863.3	812.3	764.5	726.9
50°	1393.2	1377.9	1274.0	1135.0	1004.9	908.0	841.7	795.1	753.0	712.2	677.2
52.5°	1255.5	1258.7	1167.5	1043.2	925.2	832.7	767.1	724.3	689.3	658.0	627.4
55°	1114.6	1132.4	1059.1	945.6	837.8	753.7	694.4	655.5	630.0	602.6	579.0
57.5°	985.1	1015.1	951.3	847.4	756.2	675.9	623.6	593.6	565.6	547.7	529.2
60°	858.9	886.9	839.8	755.6	670.8	604.5	555.4	529.2	505.6	494.2	482.0
62.5°	746.7	770.9	739.0	662.5	591.7	528.6	489.1	464.2	450.2	437.4	430.4
65°	640.8	661.9	631.9	575.1	512.0	461.0	427.2	407.4	392.1	387.0	378.1
67.5°	536.2	555.4	539.4	489.7	436.1	396.0	369.2	348.1	339.2	334.1	328.4
70°	445.1	464.2	447.0	404.9	366.0	333.5	308.6	297.8	288.2	286.3	277.4
72.5°	367.9	379.4	362.2	331.6	299.7	273.5	255.7	244.2	240.4	236.6	232.7
75°	287.6	299.0	287.6	262.1	238.5	219.3	202.8	198.3	192.6	190.7	187.5
77.5°	215.5	226.4	217.4	200.2	181.7	165.8	156.2	149.8	149.2	145.4	146.7
80°	155.6	162.0	153.7	142.8	128.8	118.6	112.2	109.0	105.2	103.9	106.5
82.5°	100.7	102.7	99.5	93.1	83.5	77.8	74.0	70.1	70.1	70.8	70.1
85°	58.0	57.4	56.7	50.4	47.2	42.7	40.2	39.5	38.9	40.2	41.4
87.5°	24.2	24.9	24.2	21.7	19.8	17.9	17.2	16.6	17.2	17.9	18.5
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°	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2
2.5°	1502.2	1496.5	1488.2	1476.7	1467.2	1457.0	1454.4	1450.6	1458.3	1451.9	1450.0
5°	1460.2	1446.8	1429.6	1409.8	1398.3	1381.7	1378.5	1372.2	1365.8	1365.2	1358.8
7.5°	1416.2	1397.7	1376.0	1355.6	1337.7	1319.9	1308.4	1307.1	1296.9	1291.8	1285.5
10°	1374.1	1349.9	1323.7	1304.6	1282.9	1263.8	1250.4	1242.7	1236.4	1229.3	1223.0
12.5°	1324.4	1298.2	1277.8	1256.8	1230.0	1216.6	1192.4	1177.7	1177.7	1179.6	1160.5
15°	1288.0	1262.5	1229.3	1200.0	1186.0	1157.9	1145.8	1130.5	1120.9	1111.4	1103.7
17.5°	1243.4	1212.1	1186.6	1153.5	1127.3	1106.3	1089.7	1081.4	1066.1	1052.1	1042.5
20°	1201.9	1168.1	1140.7	1105.0	1075.7	1048.3	1034.9	1022.1	1011.3	999.8	989.0
22.5°	1159.8	1124.1	1089.1	1054.6	1027.9	998.5	985.8	967.3	957.1	952.0	941.1
25°	1115.2	1077.0	1038.7	1005.5	977.5	952.0	934.8	921.4	909.9	904.8	897.8
27.5°	1066.7	1029.1	992.8	954.5	922.0	903.5	889.5	878.7	871.6	864.0	860.8
30°	1020.8	981.3	941.8	906.7	877.4	858.9	846.1	839.1	834.0	830.8	827.6
32.5°	974.3	935.4	893.3	862.1	836.6	820.6	811.7	804.7	802.8	802.1	801.5
35°	923.9	884.4	846.1	817.4	792.6	786.2	777.9	774.1	772.8	777.3	779.2
37.5°	875.5	838.5	802.8	774.1	757.5	747.3	744.1	743.5	747.9	751.8	756.2
40°	828.9	793.2	760.1	735.8	720.5	714.8	713.5	716.7	721.8	726.3	731.4
42.5°	783.6	748.6	719.2	696.9	687.4	682.3	683.5	686.7	694.4	700.1	708.4
45°	736.5	707.1	677.8	659.3	650.4	651.7	651.7	657.4	664.4	672.7	681.0
47.5°	692.5	662.5	637.6	621.7	617.2	615.3	618.5	626.1	635.7	645.3	656.8
50°	647.8	619.8	598.7	584.7	579.6	581.5	586.6	593.6	605.7	618.5	630.6
52.5°	602.6	577.7	558.6	545.8	542.6	546.4	551.5	563.7	573.9	587.9	603.2
55°	555.4	533.7	518.4	508.8	507.6	509.5	515.2	527.3	542.6	559.8	573.9
57.5°	508.8	490.3	475.7	468.7	469.3	470.6	479.5	494.2	509.5	528.0	545.8
60°	461.6	445.1	433.6	428.5	429.1	432.9	444.4	457.8	478.2	496.1	515.2
62.5°	417.0	403.0	392.1	387.7	386.4	396.0	406.8	420.8	441.2	461.6	482.7
65°	368.5	357.1	348.1	345.6	347.5	353.9	367.9	386.4	403.6	424.7	446.3
67.5°	321.4	311.8	305.4	306.7	308.6	317.5	329.7	345.6	364.7	386.4	408.7
70°	276.7	267.8	262.7	263.3	267.2	278.6	288.8	304.8	325.8	348.1	366.0
72.5°	230.8	225.7	221.3	224.4	228.3	235.3	248.7	264.6	282.5	302.9	322.0
75°	184.3	184.3	181.7	183.6	189.4	197.0	206.6	223.2	241.7	258.2	273.5
77.5°	144.7	142.8	144.1	146.0	149.8	159.4	170.2	182.4	197.0	214.2	227.0
80°	104.6	105.2	108.4	112.2	113.5	120.5	132.0	142.8	153.7	167.7	179.8
82.5°	72.1	72.7	74.0	79.1	80.3	88.0	94.4	105.2	114.8	123.1	132.6
85°	42.7	42.7	45.9	47.8	51.0	56.1	60.6	67.0	75.9	82.3	91.8
87.5°	20.4	20.4	23.0	24.2	26.1	29.3	30.6	37.6	40.2	43.4	49.1
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: P242641

CATALOG NUMBER: S124DRP-S1020D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1539.2	1539.2	1539.2	1539.2
2.5°	1448.7	1447.4	1442.9	1442.3
5°	1355.0	1351.8	1349.9	1356.9
7.5°	1284.2	1281.6	1275.9	1274.0
10°	1216.6	1214.0	1208.9	1207.7
12.5°	1151.6	1145.8	1145.8	1147.7
15°	1095.4	1092.9	1085.9	1087.8
17.5°	1038.1	1035.5	1025.9	1035.5
20°	984.5	979.4	974.9	974.3
22.5°	933.5	929.0	929.7	924.6
25°	892.7	888.2	886.9	883.8
27.5°	859.5	857.0	854.4	855.7
30°	829.6	828.9	827.6	827.6
32.5°	804.7	804.7	806.0	806.0
35°	781.7	783.6	784.9	783.0
37.5°	761.3	762.6	764.5	766.4
40°	737.1	741.6	742.8	746.0
42.5°	714.1	719.2	723.1	723.1
45°	690.6	695.7	700.1	700.1
47.5°	666.3	673.3	677.8	678.4
50°	641.5	650.4	654.8	658.0
52.5°	617.2	626.1	632.5	633.8
55°	588.5	601.3	608.3	610.8
57.5°	563.0	574.5	582.2	584.1
60°	532.4	545.2	555.4	557.3
62.5°	501.2	514.6	523.5	529.2
65°	464.2	477.6	486.5	488.4
67.5°	425.3	439.3	445.1	448.9
70°	383.9	394.7	401.1	404.3
72.5°	336.7	348.1	355.8	355.8
75°	288.2	298.4	302.2	302.2
77.5°	237.8	243.6	248.7	249.9
80°	189.4	192.6	196.4	196.4
82.5°	139.6	142.2	146.0	145.4
85°	90.5	96.3	95.6	94.4
87.5°	51.0	51.6	53.6	54.8
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242641
 CATALOG NUMBER: S124DRP-S1020D835-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	19.06	20.62	19.42	20.93	21.25	19.97	21.53	20.33	21.84	22.16
	3H	20.54	21.95	20.92	22.27	22.63	21.33	22.74	21.71	23.07	23.43
	4H	21.08	22.40	21.48	22.75	23.12	21.81	23.13	22.21	23.48	23.85
	6H	21.44	22.66	21.85	23.03	23.42	22.11	23.34	22.53	23.70	24.09
	8H	21.54	22.70	21.96	23.09	23.49	22.19	23.36	22.62	23.75	24.15
	12H	21.59	22.71	22.02	23.09	23.52	22.23	23.35	22.66	23.73	24.16
4H	2H	20.22	21.54	20.62	21.89	22.26	20.65	21.97	21.05	22.32	22.70
	3H	21.75	22.85	22.16	23.25	23.65	22.36	23.46	22.77	23.86	24.26
	4H	22.33	23.33	22.77	23.74	24.18	22.95	23.94	23.38	24.36	24.80
	6H	22.76	23.63	23.22	24.07	24.53	23.35	24.21	23.80	24.66	25.11
	8H	22.88	23.70	23.35	24.14	24.61	23.45	24.26	23.91	24.71	25.17
	12H	22.96	23.69	23.44	24.16	24.63	23.52	24.24	24.00	24.72	25.19
8H	4H	22.79	23.60	23.25	24.04	24.51	23.26	24.08	23.73	24.52	24.99
	6H	23.30	23.97	23.79	24.46	24.93	23.79	24.46	24.29	24.95	25.43
	8H	23.47	24.07	23.98	24.58	25.06	23.96	24.56	24.47	25.07	25.55
	12H	23.59	24.12	24.10	24.61	25.18	24.07	24.60	24.58	25.09	25.66
12H	4H	22.84	23.56	23.32	24.04	24.51	23.30	24.02	23.78	24.50	24.97
	6H	23.37	23.97	23.88	24.48	24.97	23.85	24.45	24.36	24.96	25.45
	8H	23.59	24.12	24.10	24.61	25.18	24.07	24.60	24.58	25.09	25.66