

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: P242921

Luminaire Tested: S125RDRP-S1090D840-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-32)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1090D840-X4F0-XX-UDD-A-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

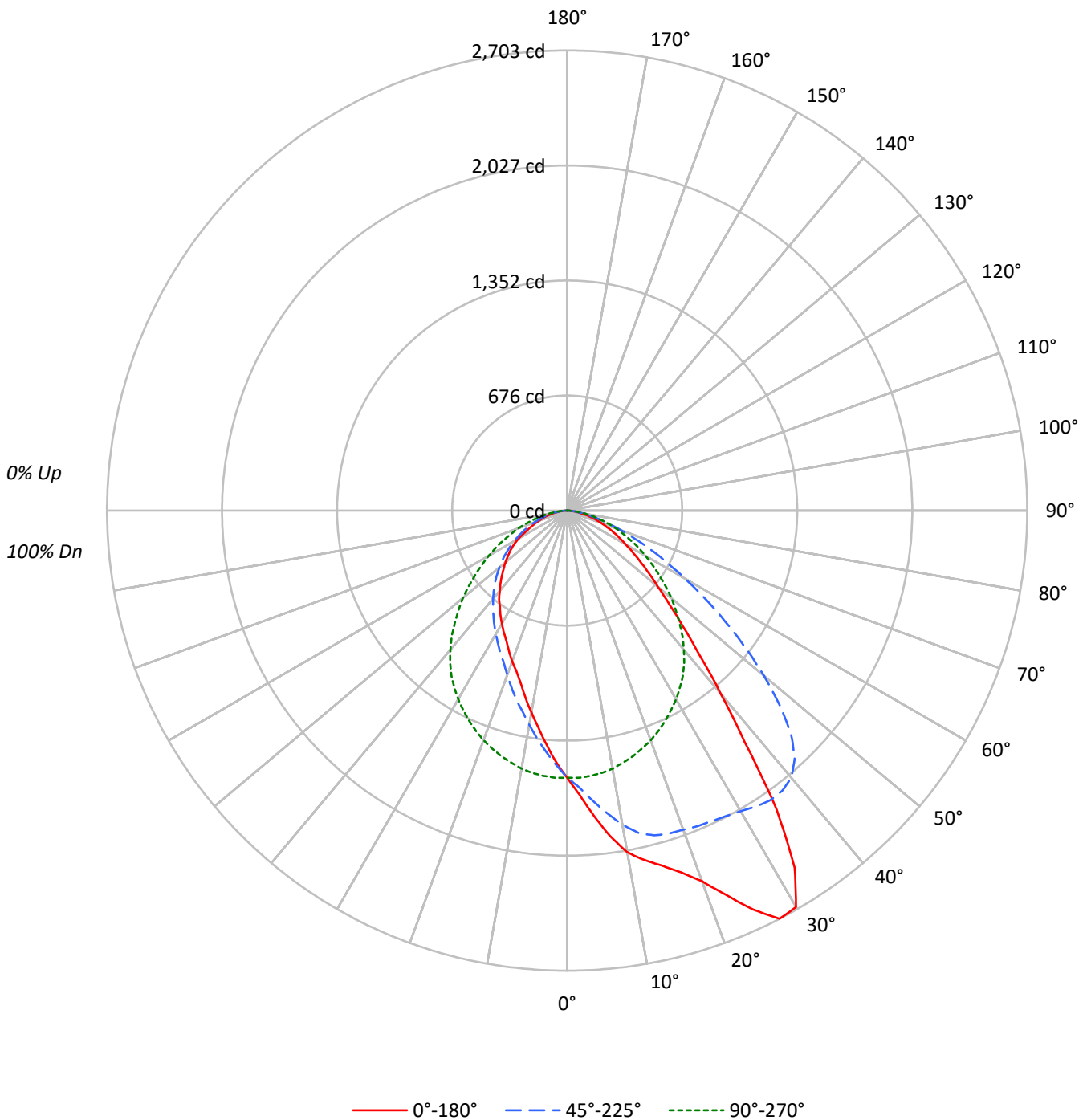
Lumens per Lamp: N/A
Luminaire Lumens: 4063.9 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.21 / 1.48
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55					55			
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48					48			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37					37			
8	63	50	42	36	61	49	42	36	48	41	36	47	40	36	46	40	35	34					34			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	42	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	11148	11148	11148	11148	11148
5°	12826	12191	11163	10143	9858
10°	14712	13522	11106	9219	8699
15°	15890	14531	10991	8466	7732
20°	17522	15087	10860	7772	7139
25°	20278	15779	10684	7266	6625
30°	22067	16730	10500	6864	6288
35°	18614	18033	10285	6547	5977
40°	12999	19009	9899	6273	5711
45°	9643	18703	9378	6013	5449
50°	7689	16666	8835	5731	5226
55°	6526	13995	8162	5441	5026
60°	5638	11340	7559	5107	4705
65°	5025	9053	6909	4732	4050
70°	4416	6945	6330	4295	3693
75°	3820	5182	5481	3820	3466
80°	2898	3716	4613	3401	2898
85°	2414	2626	3621	2887	2732

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 18703 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.4	3.7
10°-20°	441.0	10.9
20°-30°	699.2	17.2
30°-40°	844.9	20.8
40°-50°	752.4	18.5
50°-60°	576.9	14.2
60°-70°	374.6	9.2
70°-80°	181.8	4.5
80°-90°	42.7	1.1
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°	1290.6	31.8
0°-40°	2135.4	52.5
0°-60°	3464.7	85.3
0°-90°	4063.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4063.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1568	1568	1568	1568	1568	
5°	1798	1709	1565	1422	1382	179
15°	2160	1975	1494	1151	1051	618
25°	2586	2012	1362	926	845	1190
35°	2145	2078	1185	755	689	1300
45°	959	1861	933	598	542	761
55°	527	1129	659	439	406	477
65°	299	538	411	281	241	297
75°	139	189	200	139	126	148
85°	30	32	44	35	34	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°	1568.5	1568.5	1568.5	1568.5	1568.5	1568.5	1568.5	1568.5	1568.5	1568.5	1568.5
2.5°	1670.2	1668.9	1671.5	1664.4	1665.1	1654.1	1654.1	1645.7	1634.8	1626.4	1622.6
5°	1797.7	1799.0	1796.4	1786.8	1780.3	1770.7	1759.7	1740.4	1724.3	1708.8	1696.6
7.5°	1927.8	1929.0	1920.7	1918.7	1902.0	1891.7	1867.2	1842.1	1820.2	1791.3	1770.7
10°	2038.5	2037.9	2028.8	2021.8	2007.6	1989.6	1965.7	1934.8	1905.9	1873.7	1842.8
12.5°	2102.9	2101.0	2099.7	2090.7	2077.8	2062.3	2043.0	2012.8	1975.4	1939.4	1902.0
15°	2159.6	2155.0	2146.7	2135.7	2117.1	2098.4	2075.9	2048.8	2014.7	1974.8	1941.3
17.5°	2227.8	2228.5	2215.6	2204.0	2179.5	2148.6	2115.1	2073.9	2030.1	1989.6	1956.1
20°	2316.7	2314.7	2301.9	2272.2	2243.3	2202.1	2162.1	2108.7	2052.0	1994.7	1950.3
22.5°	2444.1	2438.4	2424.8	2383.6	2334.7	2278.7	2212.4	2144.1	2072.6	2005.7	1943.9
25°	2585.8	2581.9	2555.5	2510.5	2447.4	2365.6	2285.8	2196.3	2097.7	2012.1	1941.3
27.5°	2703.0	2695.3	2671.4	2628.9	2567.1	2478.9	2368.8	2252.9	2135.7	2023.1	1925.8
30°	2688.8	2698.5	2695.9	2678.5	2634.7	2557.5	2457.7	2323.1	2176.9	2038.5	1916.8
32.5°	2486.6	2495.0	2524.0	2571.0	2585.2	2565.8	2497.6	2375.9	2223.3	2061.0	1909.7
35°	2145.4	2157.0	2200.8	2269.7	2359.8	2435.1	2450.6	2383.6	2247.8	2078.4	1902.6
37.5°	1711.4	1786.8	1816.4	1886.6	2028.2	2165.4	2284.5	2311.5	2238.1	2074.6	1894.3
40°	1401.1	1416.5	1482.2	1564.0	1678.6	1822.8	2012.8	2149.9	2154.4	2048.8	1867.2
42.5°	1148.7	1169.3	1209.2	1270.4	1364.4	1508.6	1706.3	1898.1	2001.8	1978.0	1831.8
45°	959.4	974.2	1007.0	1057.2	1132.6	1251.7	1420.4	1629.6	1795.8	1860.8	1762.9
47.5°	811.3	819.0	849.3	889.8	947.8	1037.9	1175.1	1364.4	1562.0	1694.0	1668.3
50°	695.4	704.4	726.3	755.3	802.3	875.7	980.0	1131.3	1336.7	1507.3	1541.4
52.5°	605.2	612.3	623.9	651.0	687.7	739.8	819.0	952.3	1131.9	1316.1	1406.2
55°	526.7	531.8	542.8	558.2	589.1	629.7	702.5	797.1	946.5	1129.4	1245.3
57.5°	459.7	462.3	468.7	484.2	506.7	537.0	592.4	678.6	786.8	958.7	1086.2
60°	396.6	399.2	408.2	417.9	434.6	461.7	502.9	558.9	661.9	797.8	927.2
62.5°	346.4	347.7	350.3	359.9	374.1	393.4	423.7	466.8	543.4	658.7	779.1
65°	298.8	299.4	300.7	308.4	317.4	332.9	354.1	386.3	448.1	538.3	646.5
67.5°	251.1	252.4	256.9	259.5	270.4	278.2	291.7	317.4	365.1	429.5	517.0
70°	212.5	211.8	216.3	219.6	222.8	232.4	240.8	260.8	287.8	334.2	404.4
72.5°	176.4	174.5	175.8	176.4	180.9	186.7	195.1	205.4	224.7	253.0	302.6
75°	139.1	139.7	139.7	141.0	144.2	146.8	149.4	155.8	167.4	188.7	217.6
77.5°	104.3	103.0	106.2	106.2	108.8	112.0	114.0	116.5	121.0	130.7	148.1
80°	70.8	70.8	71.5	73.4	72.8	74.0	77.3	79.8	85.6	90.8	95.9
82.5°	50.2	49.6	50.2	50.2	50.2	51.5	52.2	52.2	53.4	55.4	58.6
85°	29.6	29.6	30.3	30.3	30.9	30.9	31.5	31.5	31.5	32.2	32.8
87.5°	14.2	13.5	12.9	12.9	13.5	14.8	14.2	13.5	13.5	13.5	14.2
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°	1568.5	1568.5	1568.5	1568.5	1568.5	1568.5	1568.5	1568.5	1568.5	1568.5	1568.5
2.5°	1622.6	1618.1	1609.7	1602.0	1592.3	1583.9	1578.1	1571.1	1562.0	1551.1	1542.1
5°	1683.1	1668.9	1650.3	1634.2	1613.6	1597.5	1580.7	1564.6	1548.5	1527.9	1509.9
7.5°	1750.1	1722.4	1696.6	1663.1	1632.9	1606.5	1580.7	1554.3	1529.2	1500.9	1474.5
10°	1810.6	1775.2	1735.9	1690.8	1649.6	1610.3	1574.3	1538.9	1501.5	1468.7	1433.3
12.5°	1867.2	1818.9	1772.6	1712.7	1661.2	1611.0	1562.7	1516.3	1475.8	1430.7	1392.1
15°	1896.9	1851.8	1801.6	1732.0	1663.1	1605.2	1551.1	1493.8	1444.2	1396.6	1354.1
17.5°	1914.2	1866.6	1808.6	1741.0	1667.0	1594.9	1526.6	1465.5	1408.8	1354.1	1307.1
20°	1906.5	1860.8	1800.9	1737.2	1656.7	1580.7	1505.4	1435.8	1370.8	1312.2	1261.4
22.5°	1887.8	1840.2	1782.9	1714.6	1639.3	1557.5	1475.8	1400.4	1331.5	1270.4	1213.7
25°	1869.2	1804.8	1745.5	1679.9	1607.1	1527.3	1444.2	1362.4	1289.7	1227.9	1167.3
27.5°	1851.1	1773.2	1699.8	1636.7	1558.8	1486.7	1405.6	1321.2	1245.3	1182.8	1121.0
30°	1824.7	1734.6	1651.5	1577.5	1504.7	1437.1	1361.2	1279.4	1200.8	1135.8	1072.7
32.5°	1791.9	1694.7	1601.3	1513.1	1443.6	1376.6	1309.6	1232.4	1156.4	1088.8	1024.4
35°	1765.5	1643.2	1544.0	1453.2	1375.3	1310.3	1248.5	1185.4	1108.8	1039.2	976.8
37.5°	1728.8	1594.2	1482.2	1383.0	1301.9	1237.5	1187.9	1128.1	1056.6	989.0	931.0
40°	1696.0	1540.1	1414.6	1316.7	1230.4	1161.6	1115.8	1066.9	1003.2	940.7	882.8
42.5°	1652.2	1490.6	1346.3	1243.3	1156.4	1090.7	1044.4	1003.2	952.3	894.3	831.2
45°	1592.3	1423.6	1276.2	1166.7	1079.1	1014.1	971.0	933.0	892.4	838.3	784.2
47.5°	1520.8	1359.9	1204.7	1084.3	999.9	938.8	896.3	864.7	835.1	788.1	733.4
50°	1431.3	1277.4	1126.8	1010.9	919.5	862.1	822.9	799.0	772.6	730.8	687.0
52.5°	1325.7	1192.5	1045.7	926.5	841.5	788.7	751.4	727.6	707.0	674.8	633.6
55°	1213.7	1093.3	958.1	850.6	771.4	717.3	681.2	658.7	645.8	616.8	584.0
57.5°	1086.9	994.1	871.8	766.9	695.4	641.3	614.3	594.3	579.5	558.2	533.8
60°	952.9	892.4	785.5	687.0	622.6	571.8	547.9	531.8	518.3	500.9	482.9
62.5°	817.1	777.2	687.7	606.5	548.6	508.0	486.1	472.0	455.9	445.6	428.2
65°	698.6	659.3	594.9	528.6	473.9	439.8	423.7	410.8	401.1	388.3	376.0
67.5°	567.3	549.2	501.6	452.0	412.1	379.2	365.1	354.8	343.8	336.1	327.1
70°	448.1	440.4	408.9	378.6	341.9	321.3	308.4	304.6	290.4	282.7	276.9
72.5°	342.5	340.0	325.2	306.5	283.3	265.9	254.3	249.8	242.1	236.3	233.1
75°	249.2	250.5	247.2	233.7	224.1	212.5	202.2	199.6	193.2	188.0	184.8
77.5°	170.0	176.4	175.1	174.5	170.0	161.6	157.1	155.2	148.1	146.2	145.5
80°	108.2	115.3	121.7	121.0	119.8	117.8	114.6	112.7	109.5	107.5	106.2
82.5°	63.1	69.5	74.7	79.2	79.2	77.3	75.3	74.7	74.7	73.4	73.4
85°	34.1	35.4	37.3	41.9	45.1	45.7	45.1	44.4	42.5	43.1	43.8
87.5°	14.8	14.8	15.5	15.5	14.8	18.0	20.0	20.6	19.3	18.0	16.7
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°	1568.5	1568.5	1568.5	1568.5	1568.5	1568.5	1568.5	1568.5	1568.5	1568.5	1568.5
2.5°	1535.6	1526.6	1520.2	1507.3	1498.3	1494.4	1487.4	1485.4	1492.5	1487.4	1486.7
5°	1496.4	1477.7	1462.9	1448.1	1432.0	1421.7	1406.2	1403.6	1399.8	1394.0	1392.7
7.5°	1450.6	1427.5	1410.1	1385.6	1365.7	1349.6	1330.2	1322.5	1318.7	1311.6	1300.0
10°	1404.3	1375.3	1349.6	1325.1	1298.7	1277.4	1258.1	1243.3	1233.7	1224.6	1220.8
12.5°	1358.6	1329.0	1294.2	1263.3	1233.0	1208.6	1186.7	1178.3	1167.3	1156.4	1146.1
15°	1310.9	1271.7	1235.6	1201.5	1176.4	1150.6	1130.0	1115.8	1099.7	1095.2	1077.8
17.5°	1260.1	1223.4	1180.9	1144.2	1115.8	1088.8	1066.3	1049.5	1037.3	1019.9	1011.5
20°	1213.1	1167.3	1126.1	1093.3	1061.1	1027.6	1004.4	990.9	979.3	965.8	959.4
22.5°	1162.8	1118.4	1075.9	1036.0	1003.2	970.3	955.5	941.3	927.8	915.6	906.6
25°	1113.9	1068.8	1024.4	984.5	950.4	926.5	907.2	891.1	884.0	871.8	862.8
27.5°	1065.0	1017.3	972.3	930.4	904.0	880.2	864.7	851.8	838.3	827.4	819.0
30°	1018.0	969.0	918.8	887.3	858.9	836.4	819.0	806.8	797.1	787.5	781.7
32.5°	971.0	920.1	877.0	842.2	815.8	797.1	779.1	767.5	757.2	746.3	739.2
35°	920.1	868.6	832.5	799.0	772.6	754.6	742.4	725.6	717.3	709.5	702.5
37.5°	874.4	825.4	785.5	756.6	732.1	714.7	698.6	690.2	679.3	672.8	667.1
40°	822.9	779.1	743.7	712.8	696.0	676.1	661.3	649.7	641.9	632.9	626.5
42.5°	776.5	736.6	702.5	675.4	653.5	637.4	623.3	611.7	601.4	595.6	590.4
45°	733.4	692.8	659.3	633.6	614.3	598.2	583.4	577.6	564.7	557.0	554.4
47.5°	688.3	651.6	618.8	594.9	575.0	560.2	546.0	533.1	526.7	519.0	515.1
50°	642.6	607.8	577.6	554.4	535.1	518.3	505.4	497.7	488.1	481.0	475.8
52.5°	596.9	565.3	535.1	513.2	497.1	480.3	465.5	457.8	448.8	444.9	441.7
55°	553.7	519.6	493.9	472.0	454.6	439.1	425.6	417.9	412.1	407.6	406.3
57.5°	504.2	476.5	452.0	432.7	414.0	399.2	387.0	379.9	374.7	374.1	369.6
60°	455.9	431.4	409.5	388.3	372.8	359.3	349.0	340.6	335.5	334.8	333.5
62.5°	407.6	384.4	364.4	346.4	332.9	320.0	310.3	300.7	298.1	294.3	291.0
65°	359.9	338.7	321.9	307.1	292.3	281.4	271.7	265.9	258.8	255.0	247.9
67.5°	312.9	295.5	279.4	267.2	255.0	244.0	235.7	227.3	222.1	218.9	213.1
70°	266.6	253.7	237.6	224.1	215.1	206.7	200.2	190.6	187.4	184.8	182.2
72.5°	222.8	211.8	199.0	188.7	179.6	171.9	164.2	161.0	157.7	155.2	153.9
75°	182.2	171.3	159.7	152.0	145.5	139.1	135.2	132.0	130.7	130.1	127.5
77.5°	141.7	135.2	125.6	118.5	114.0	111.4	107.5	106.2	106.9	103.7	103.0
80°	102.4	99.2	91.4	88.9	85.6	83.1	81.1	77.9	74.7	73.4	71.5
82.5°	69.5	66.3	64.4	59.9	57.3	56.0	54.1	53.4	54.7	52.8	52.2
85°	40.6	37.3	36.1	35.4	34.1	35.4	34.8	34.1	33.5	32.8	33.5
87.5°	16.1	16.1	15.5	16.7	14.8	15.5	15.5	14.8	14.8	14.8	14.2
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: P242921

CATALOG NUMBER: S125RDRP-S1090D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1568.5	1568.5	1568.5	1568.5
2.5°	1486.1	1479.0	1477.0	1479.6
5°	1386.3	1379.8	1383.0	1381.8
7.5°	1301.9	1293.5	1283.9	1286.5
10°	1212.4	1206.0	1202.1	1205.3
12.5°	1137.1	1133.9	1130.6	1128.1
15°	1070.1	1062.4	1059.2	1050.8
17.5°	1005.7	1003.2	994.8	989.0
20°	949.7	947.1	938.8	943.9
22.5°	903.4	896.9	895.6	892.4
25°	860.2	851.8	848.6	844.8
27.5°	816.4	811.9	807.4	806.1
30°	773.9	769.4	766.2	766.2
32.5°	735.9	732.7	729.5	728.9
35°	699.2	694.1	692.8	688.9
37.5°	660.6	656.1	656.1	656.8
40°	623.9	620.7	620.1	615.5
42.5°	584.6	583.4	580.8	579.5
45°	549.9	545.4	545.4	542.1
47.5°	513.2	509.3	509.9	506.1
50°	476.5	474.5	473.9	472.6
52.5°	439.8	439.1	442.3	439.1
55°	407.6	405.6	409.5	405.6
57.5°	369.6	368.3	372.2	369.6
60°	332.2	328.4	330.3	331.0
62.5°	287.8	285.9	287.2	283.3
65°	246.6	244.7	242.1	240.8
67.5°	214.4	208.6	208.6	209.9
70°	178.4	178.4	177.7	177.7
72.5°	153.2	152.6	151.3	150.7
75°	127.5	128.1	126.8	126.2
77.5°	99.8	96.6	97.9	96.6
80°	71.5	70.8	72.8	70.8
82.5°	52.8	52.2	52.8	51.5
85°	34.1	33.5	32.8	33.5
87.5°	14.8	14.2	14.2	14.2
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P242921
 CATALOG NUMBER: S125RDRP-S1090D840-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	18.00	19.54	18.37	19.85	20.16	18.98	20.52	19.35	20.83	21.14
	3H	19.13	20.51	19.51	20.83	21.19	20.46	21.83	20.84	22.16	22.52
	4H	19.51	20.81	19.91	21.15	21.53	20.97	22.26	21.37	22.61	22.99
	6H	19.75	20.94	20.16	21.30	21.70	21.32	22.51	21.73	22.88	23.27
	8H	19.80	20.94	20.23	21.33	21.73	21.42	22.55	21.84	22.94	23.34
	12H	19.83	20.92	20.26	21.30	21.73	21.47	22.56	21.90	22.94	23.37
4H	2H	19.59	20.88	19.99	21.23	21.61	19.83	21.12	20.23	21.47	21.85
	3H	20.66	21.73	21.07	22.13	22.53	21.49	22.56	21.90	22.96	23.36
	4H	21.04	22.00	21.47	22.42	22.86	22.08	23.04	22.51	23.45	23.89
	6H	21.30	22.13	21.75	22.58	23.04	22.50	23.34	22.96	23.78	24.24
	8H	21.36	22.14	21.82	22.58	23.05	22.63	23.41	23.09	23.85	24.32
	12H	21.40	22.10	21.89	22.58	23.05	22.71	23.41	23.19	23.88	24.36
8H	4H	21.41	22.20	21.88	22.64	23.11	22.22	23.01	22.69	23.45	23.92
	6H	21.72	22.37	22.22	22.86	23.33	22.74	23.39	23.24	23.88	24.35
	8H	21.81	22.39	22.33	22.90	23.39	22.92	23.50	23.43	24.00	24.49
	12H	21.89	22.41	22.40	22.90	23.46	23.05	23.56	23.56	24.06	24.62
12H	4H	21.44	22.14	21.92	22.62	23.09	22.21	22.91	22.70	23.39	23.86
	6H	21.75	22.33	22.27	22.84	23.33	22.73	23.31	23.25	23.82	24.31
	8H	21.89	22.40	22.39	22.89	23.45	22.95	23.46	23.46	23.95	24.52