

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: P242749

Luminaire Tested: S124RDRP-S1020D840-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242749
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-31)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S1020D840-X4F0-XX-UDD-A-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

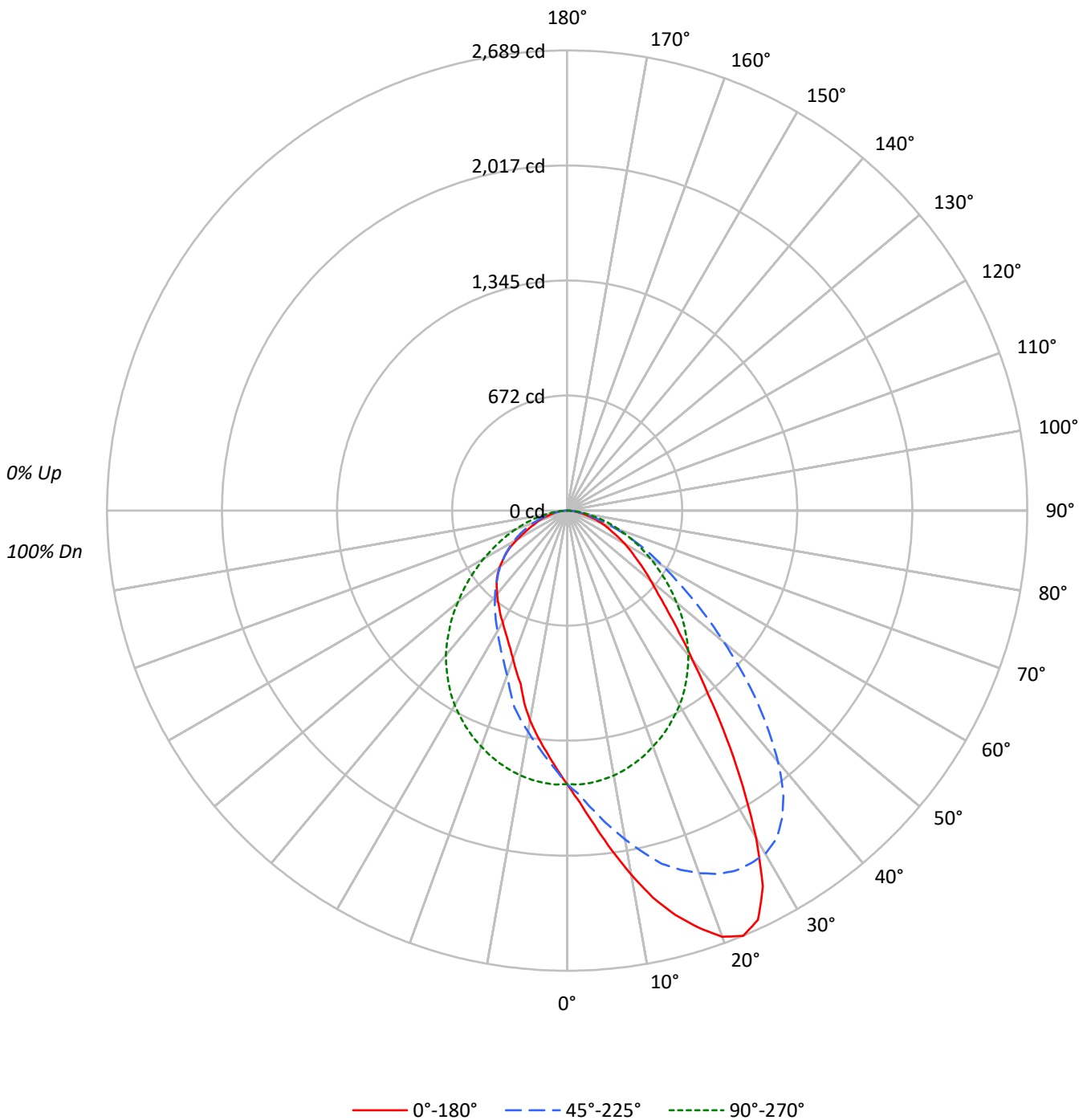
Lumens per Lamp: N/A
Luminaire Lumens: 4040.0 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.22 / 1.39
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (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

TEST NUMBER: P242749

CATALOG NUMBER: S124RDRP-S1020D840-X4F0-XX-UDD-A-W

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				
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76					74				
3	93	83	76	70	90	81	75	69	79	73	68	76	71	67	73	69	65					63				
4	85	74	66	60	83	73	65	59	71	64	59	68	63	58	66	61	57					55				
5	79	67	58	52	77	66	58	52	64	57	51	62	56	51	60	55	50					48				
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45					43				
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40					38				
8	64	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36					34				
9	59	47	39	33	58	46	38	33	45	38	33	44	38	33	43	37	33					31				
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14206	14206	14206	14206	14206
5°	16478	15686	14249	12893	12595
10°	19494	17611	14187	11850	11240
15°	22518	19661	14056	10951	9659
20°	25071	21319	13875	9685	8735
25°	25881	22786	13699	8924	8109
30°	22656	23766	13483	8361	7733
35°	17636	23777	13164	7938	7505
40°	13225	22243	12799	7599	7382
45°	10443	19629	12215	7310	7317
50°	8816	16518	11540	7061	7105
55°	7684	13692	10797	6796	6726
60°	6914	11460	10028	6411	5952
65°	6095	9549	9196	5973	5119
70°	5489	7630	8335	5388	4618
75°	4599	5928	7387	4733	3936
80°	3890	4484	6296	3921	3691
85°	3284	3549	4926	3478	3284

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 20964 cd/sqm



TEST NUMBER: P242749

CATALOG NUMBER: S124RDRP-S1020D840-X4F0-XX-UDD-A-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.8	3.8
10°-20°	467.3	11.6
20°-30°	732.0	18.1
30°-40°	812.9	20.1
40°-50°	720.4	17.8
50°-60°	561.4	13.9
60°-70°	367.2	9.1
70°-80°	180.2	4.5
80°-90°	43.9	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°	1354.1	33.5
0°-40°	2167.0	53.6
0°-60°	3448.8	85.4
0°-90°	4040.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4040.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1598	1598	1598	1598	1598	
5°	1847	1758	1597	1445	1412	186
15°	2447	2136	1527	1190	1050	696
25°	2639	2323	1397	910	827	1178
35°	1625	2191	1213	732	692	1017
45°	831	1562	972	582	582	655
55°	496	884	697	438	434	450
65°	290	454	437	284	243	291
75°	134	173	215	138	115	147
85°	32	35	48	34	32	37
90°	0	0	0	0	0	



TEST NUMBER: P242749

CATALOG NUMBER: S124RDRP-S1020D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2
2.5°	1707.7	1713.5	1707.7	1707.0	1700.6	1698.6	1696.1	1687.7	1672.2	1663.2	1665.2
5°	1846.7	1862.8	1853.8	1852.5	1838.4	1824.2	1815.2	1794.6	1772.7	1757.9	1745.7
7.5°	2001.3	2010.9	2004.5	1997.4	1973.0	1965.2	1944.0	1919.5	1882.8	1855.1	1830.0
10°	2159.7	2167.4	2164.8	2148.1	2131.4	2097.2	2077.9	2039.9	1990.3	1951.1	1914.4
12.5°	2315.5	2323.9	2296.2	2301.4	2265.9	2240.8	2207.3	2157.1	2097.9	2044.4	1996.1
15°	2446.9	2436.6	2436.6	2423.7	2388.3	2350.9	2319.4	2269.2	2197.0	2136.5	2072.8
17.5°	2555.1	2559.6	2554.4	2521.6	2495.8	2457.8	2401.2	2343.9	2281.4	2200.3	2137.2
20°	2650.4	2650.4	2644.6	2624.0	2587.9	2546.7	2484.2	2420.5	2335.5	2253.7	2180.3
22.5°	2689.0	2691.6	2684.5	2668.4	2636.8	2596.9	2546.0	2481.0	2392.8	2298.1	2202.8
25°	2638.8	2651.0	2652.3	2647.8	2638.1	2613.7	2567.9	2501.6	2423.1	2323.2	2225.4
27.5°	2476.5	2492.6	2499.0	2513.2	2539.6	2549.3	2543.5	2499.0	2423.1	2324.5	2227.3
30°	2207.3	2220.2	2262.1	2316.8	2359.3	2397.9	2431.4	2440.4	2401.8	2315.5	2211.8
32.5°	1908.6	1927.2	1969.1	2029.0	2106.9	2179.0	2264.7	2310.4	2318.7	2275.6	2181.6
35°	1625.2	1638.1	1676.8	1738.6	1823.6	1920.8	2039.9	2132.6	2195.8	2191.2	2132.6
37.5°	1353.5	1371.5	1410.8	1461.7	1545.4	1669.7	1782.4	1906.6	2020.0	2075.3	2045.7
40°	1139.7	1140.4	1178.4	1231.2	1308.4	1413.4	1539.0	1680.6	1810.7	1916.9	1937.5
42.5°	971.0	971.0	992.9	1050.9	1101.1	1198.3	1316.8	1457.2	1614.9	1741.8	1804.9
45°	830.7	836.4	857.1	891.2	935.0	1018.7	1114.6	1245.3	1416.0	1561.5	1652.3
47.5°	719.9	730.2	742.4	773.3	809.4	868.0	949.8	1072.1	1213.8	1375.4	1501.0
50°	637.5	638.8	655.5	671.0	701.2	745.7	815.2	913.1	1040.6	1194.5	1338.1
52.5°	566.6	566.0	574.4	595.0	618.2	650.4	703.2	790.1	899.5	1033.5	1182.9
55°	495.8	499.0	506.8	522.2	540.9	565.4	609.8	676.8	765.6	883.5	1018.0
57.5°	441.7	443.7	450.7	456.5	474.6	492.6	528.7	576.9	654.9	753.4	885.4
60°	388.9	389.6	391.5	401.2	414.7	431.4	454.0	493.2	556.3	644.6	743.7
62.5°	337.4	338.7	341.9	348.4	358.0	368.3	392.1	421.8	471.3	543.5	630.4
65°	289.8	290.4	294.9	297.5	305.9	316.2	333.5	354.8	390.9	454.0	521.6
67.5°	249.8	249.8	249.8	253.7	260.1	267.2	278.8	296.8	325.8	366.4	429.5
70°	211.2	211.2	212.5	214.4	217.6	223.4	229.2	242.1	262.1	293.6	339.3
72.5°	175.1	175.8	177.1	177.1	178.4	182.9	186.7	193.8	207.3	229.2	264.0
75°	133.9	135.9	139.1	141.7	144.9	144.2	148.7	153.9	158.4	172.6	193.8
77.5°	105.6	104.3	104.3	106.9	107.5	108.2	111.4	115.9	119.8	127.5	135.2
80°	76.0	76.0	77.9	78.6	77.9	78.6	81.8	83.7	85.0	87.6	94.7
82.5°	52.8	54.1	52.8	53.4	54.1	54.7	57.3	57.3	58.6	59.2	61.2
85°	32.2	32.8	33.5	32.2	32.2	32.2	33.5	34.1	35.4	34.8	36.1
87.5°	14.2	13.5	14.2	14.2	14.8	14.2	14.8	16.1	14.8	15.5	15.5
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: P242749

CATALOG NUMBER: S124RDRP-S1020D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2
2.5°	1658.7	1649.7	1645.2	1634.9	1622.7	1616.2	1610.4	1602.1	1591.1	1579.5	1571.2
5°	1730.2	1714.7	1695.4	1672.2	1651.6	1631.7	1614.3	1596.9	1576.9	1556.3	1535.7
7.5°	1801.0	1773.3	1743.7	1708.3	1674.2	1642.6	1614.3	1586.6	1555.1	1526.7	1500.3
10°	1875.7	1834.5	1788.8	1740.5	1692.2	1650.4	1609.1	1571.8	1530.6	1493.9	1463.0
12.5°	1936.3	1886.0	1828.7	1765.6	1705.1	1652.3	1603.3	1551.8	1503.5	1463.0	1419.2
15°	2004.5	1938.2	1864.1	1792.0	1716.7	1647.8	1584.0	1527.4	1473.9	1417.9	1378.6
17.5°	2051.5	1974.9	1887.3	1803.6	1717.3	1637.5	1565.4	1499.7	1438.5	1382.5	1336.1
20°	2092.7	2005.8	1906.0	1807.5	1707.7	1620.7	1541.5	1466.8	1403.1	1341.3	1293.0
22.5°	2115.9	2017.4	1906.0	1801.7	1697.4	1601.4	1512.6	1434.0	1363.2	1301.4	1246.6
25°	2117.2	2014.2	1902.8	1784.3	1671.0	1571.2	1481.0	1396.7	1319.4	1257.6	1200.9
27.5°	2112.0	1992.9	1880.9	1760.5	1643.9	1537.7	1444.3	1354.8	1278.2	1212.5	1154.5
30°	2096.6	1966.5	1844.2	1718.0	1599.5	1498.4	1398.6	1313.6	1233.1	1164.2	1105.6
32.5°	2063.1	1934.3	1800.4	1670.3	1549.9	1444.9	1351.6	1265.9	1187.4	1116.5	1053.4
35°	2016.7	1886.0	1743.1	1610.4	1492.6	1384.4	1295.6	1213.1	1137.8	1062.5	996.8
37.5°	1963.3	1826.8	1685.8	1540.2	1423.1	1320.0	1237.0	1157.8	1084.4	1015.5	942.7
40°	1880.9	1759.2	1612.4	1468.1	1347.1	1248.6	1173.2	1103.0	1029.0	960.7	888.0
42.5°	1781.1	1681.9	1533.2	1388.3	1269.2	1175.1	1106.2	1038.0	972.3	906.6	830.0
45°	1667.7	1589.2	1450.1	1311.0	1190.6	1096.6	1032.2	971.7	912.4	849.3	777.8
47.5°	1541.5	1483.6	1362.5	1217.0	1104.3	1018.0	956.2	906.0	853.8	790.1	725.7
50°	1408.9	1374.8	1258.9	1128.8	1022.5	944.6	880.9	834.5	792.7	732.1	676.1
52.5°	1267.2	1253.1	1159.7	1036.7	935.0	859.0	806.8	766.3	723.8	676.1	624.6
55°	1123.0	1132.6	1049.6	942.0	845.5	781.1	731.5	696.7	660.7	618.2	577.6
57.5°	973.0	1009.7	947.8	850.6	757.2	696.7	658.7	627.8	597.6	561.5	524.8
60°	841.0	870.6	839.0	756.0	676.8	621.4	586.6	564.1	533.8	501.6	475.2
62.5°	712.2	744.4	728.9	665.8	593.7	548.0	518.4	497.7	477.1	450.1	422.4
65°	608.5	629.1	620.1	573.7	521.6	481.0	452.7	437.2	416.6	396.0	371.5
67.5°	486.8	527.4	520.9	495.2	444.9	412.7	392.8	378.6	359.3	343.9	326.5
70°	383.1	419.8	419.2	399.2	374.8	345.1	332.3	320.7	303.9	289.1	275.6
72.5°	296.2	329.0	335.5	321.3	306.5	285.9	273.7	266.6	250.5	241.5	231.2
75°	219.6	244.0	250.5	250.5	242.8	231.2	220.2	215.1	203.5	194.5	188.0
77.5°	154.5	171.3	180.9	182.9	183.5	179.0	168.7	164.8	155.8	152.6	145.5
80°	101.7	112.0	123.6	127.5	130.7	129.4	125.6	123.0	114.6	111.4	108.8
82.5°	62.5	67.0	76.0	85.6	83.7	88.2	85.0	83.1	77.3	76.6	74.1
85°	36.7	37.3	38.6	44.4	47.6	48.9	49.6	48.3	46.4	46.4	41.9
87.5°	15.5	14.8	16.1	16.1	16.7	19.3	21.2	21.9	20.0	18.0	16.1
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: P242749

CATALOG NUMBER: S124RDRP-S1020D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2
2.5°	1562.1	1555.7	1547.3	1537.7	1526.1	1515.8	1511.3	1515.1	1517.1	1511.9	1511.3
5°	1521.6	1505.5	1492.6	1473.3	1457.8	1444.9	1435.9	1432.1	1433.4	1423.1	1420.5
7.5°	1476.5	1459.1	1437.9	1416.0	1395.4	1377.3	1367.7	1363.2	1352.2	1347.7	1340.6
10°	1433.4	1407.6	1387.0	1359.9	1335.5	1312.9	1302.0	1293.0	1282.0	1276.9	1265.9
12.5°	1388.9	1358.0	1334.8	1306.5	1281.4	1253.1	1242.8	1224.1	1205.4	1193.2	1178.4
15°	1347.7	1311.7	1284.0	1250.5	1220.9	1190.0	1162.3	1131.4	1119.8	1095.3	1081.1
17.5°	1298.8	1261.4	1230.5	1187.4	1142.9	1105.6	1074.7	1042.5	1025.1	1008.4	1001.3
20°	1250.5	1217.0	1169.4	1117.2	1066.3	1023.8	1000.0	980.7	961.4	950.4	942.7
22.5°	1204.8	1159.7	1102.4	1045.1	994.2	963.3	944.0	924.0	909.2	898.9	888.0
25°	1152.6	1096.6	1038.0	973.6	938.8	909.9	888.0	871.9	862.2	848.7	843.5
27.5°	1101.7	1034.1	967.8	924.0	888.0	860.3	840.3	828.7	815.8	806.8	799.7
30°	1041.2	972.3	914.4	873.1	836.4	814.6	799.1	784.9	775.3	768.2	763.0
32.5°	981.3	912.4	866.1	821.0	793.9	772.7	756.0	746.3	739.2	729.6	727.0
35°	924.0	862.8	820.3	780.4	750.8	731.5	718.6	707.7	701.2	698.6	696.7
37.5°	868.0	817.1	770.1	737.9	710.2	695.4	678.7	673.5	669.0	663.2	665.8
40°	815.2	768.2	727.6	692.9	671.6	654.9	645.8	639.4	635.5	635.5	635.5
42.5°	769.5	723.8	684.5	654.2	633.0	619.4	609.1	604.0	603.3	602.7	606.6
45°	721.8	679.3	639.4	613.7	595.6	581.5	575.7	571.2	571.2	573.7	574.4
47.5°	674.2	634.3	602.1	572.4	555.7	546.7	541.5	539.0	539.0	542.2	544.8
50°	631.0	591.8	560.2	534.4	519.0	510.6	506.1	504.8	506.1	506.1	510.6
52.5°	584.0	549.9	519.0	498.4	480.4	472.6	470.7	468.8	469.4	472.0	473.3
55°	538.3	506.8	477.1	456.5	443.7	438.5	432.7	433.4	432.1	433.4	433.4
57.5°	492.0	464.3	435.3	418.5	407.6	399.9	393.4	395.4	393.4	393.4	392.8
60°	447.5	416.6	394.7	379.9	367.0	360.6	354.8	356.1	354.2	352.9	350.3
62.5°	399.2	374.8	354.2	340.0	330.3	322.6	316.8	314.9	309.7	304.6	298.1
65°	352.9	331.6	312.9	299.4	289.8	284.0	279.5	275.6	265.9	255.6	250.5
67.5°	307.1	291.7	273.7	262.1	254.3	246.6	238.2	231.2	221.5	215.1	211.8
70°	263.4	248.6	233.7	222.8	214.4	207.3	197.7	193.2	186.7	184.2	180.9
72.5°	221.5	208.0	194.5	184.8	175.8	170.6	163.6	159.0	157.1	156.5	153.3
75°	179.0	168.1	157.8	148.7	141.7	137.8	134.6	131.4	130.1	124.3	121.1
77.5°	137.8	130.1	123.6	116.5	112.0	109.5	102.4	97.9	95.3	92.1	91.4
80°	101.7	96.6	90.1	86.3	79.2	76.6	74.1	73.4	72.8	72.1	71.5
82.5°	70.2	65.0	58.6	56.7	56.0	54.7	53.4	52.8	52.2	52.8	52.8
85°	38.6	36.1	36.1	35.4	34.8	34.1	33.5	33.5	32.8	33.5	32.8
87.5°	16.1	15.5	15.5	14.2	14.8	14.8	14.2	14.2	14.8	13.5	13.5
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: P242749

CATALOG NUMBER: S124RDRP-S1020D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1598.2	1598.2	1598.2	1598.2
2.5°	1507.4	1508.7	1504.2	1502.9
5°	1415.3	1414.0	1410.8	1411.5
7.5°	1335.5	1331.0	1334.2	1329.0
10°	1263.4	1256.3	1250.5	1245.3
12.5°	1164.8	1159.0	1150.7	1153.9
15°	1072.8	1063.1	1047.7	1049.6
17.5°	990.3	991.6	982.6	985.2
20°	929.2	924.7	925.3	923.4
22.5°	886.7	880.9	875.1	870.6
25°	837.7	833.9	828.1	826.8
27.5°	794.6	793.9	791.4	788.2
30°	757.9	756.6	755.3	753.4
32.5°	725.0	724.4	723.1	723.8
35°	694.1	693.5	692.2	691.6
37.5°	665.2	667.1	665.8	665.8
40°	634.9	635.5	636.8	636.2
42.5°	609.8	609.8	611.7	609.1
45°	578.9	582.7	582.1	582.1
47.5°	546.0	550.5	551.2	551.2
50°	513.8	512.6	514.5	513.8
52.5°	474.6	475.2	474.6	473.9
55°	434.0	434.6	433.4	434.0
57.5°	390.9	388.3	390.2	388.9
60°	343.9	338.7	337.4	334.8
62.5°	291.0	287.8	282.7	285.9
65°	245.3	242.8	240.8	243.4
67.5°	208.6	207.3	207.3	206.1
70°	180.9	179.0	179.0	177.7
72.5°	152.6	150.7	151.3	150.7
75°	117.2	114.0	114.0	114.6
77.5°	91.4	90.8	92.1	90.1
80°	71.5	70.8	70.2	72.1
82.5°	51.5	51.5	51.5	54.1
85°	33.5	32.2	33.5	32.2
87.5°	14.8	14.2	13.5	14.2
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242749
 CATALOG NUMBER: S124RDRP-S1020D840-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	18.32	19.84	18.69	20.16	20.47	20.14	21.66	20.50	21.98	22.29
	3H	19.55	20.91	19.93	21.24	21.60	21.59	22.96	21.97	23.29	23.65
	4H	19.98	21.26	20.38	21.61	21.99	22.11	23.39	22.51	23.74	24.12
	6H	20.25	21.44	20.67	21.80	22.20	22.46	23.64	22.87	24.01	24.40
	8H	20.33	21.46	20.76	21.85	22.25	22.56	23.69	22.99	24.08	24.48
	12H	20.38	21.46	20.81	21.84	22.27	22.62	23.70	23.05	24.08	24.51
4H	2H	19.58	20.86	19.98	21.21	21.59	20.65	21.93	21.05	22.28	22.65
	3H	20.82	21.88	21.23	22.28	22.68	22.39	23.45	22.80	23.85	24.25
	4H	21.28	22.24	21.71	22.65	23.09	23.02	23.97	23.45	24.39	24.83
	6H	21.60	22.43	22.06	22.88	23.34	23.47	24.30	23.93	24.74	25.20
	8H	21.70	22.47	22.16	22.92	23.39	23.61	24.38	24.07	24.83	25.29
	12H	21.77	22.46	22.25	22.94	23.41	23.70	24.39	24.18	24.87	25.34
8H	4H	21.68	22.46	22.15	22.90	23.37	23.13	23.90	23.59	24.35	24.81
	6H	22.07	22.71	22.57	23.20	23.68	23.67	24.31	24.17	24.80	25.28
	8H	22.21	22.78	22.72	23.29	23.78	23.86	24.44	24.37	24.95	25.43
	12H	22.32	22.82	22.83	23.32	23.88	24.01	24.52	24.52	25.01	25.57
12H	4H	21.72	22.41	22.20	22.89	23.36	23.12	23.81	23.60	24.29	24.76
	6H	22.12	22.69	22.63	23.20	23.69	23.66	24.23	24.17	24.74	25.23
	8H	22.30	22.81	22.81	23.30	23.86	23.89	24.40	24.40	24.89	25.45