

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: P242740

Luminaire Tested: S124RDRP-S1195D830-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242740
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-S1195D830-X4F0-XX-UDD-A-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

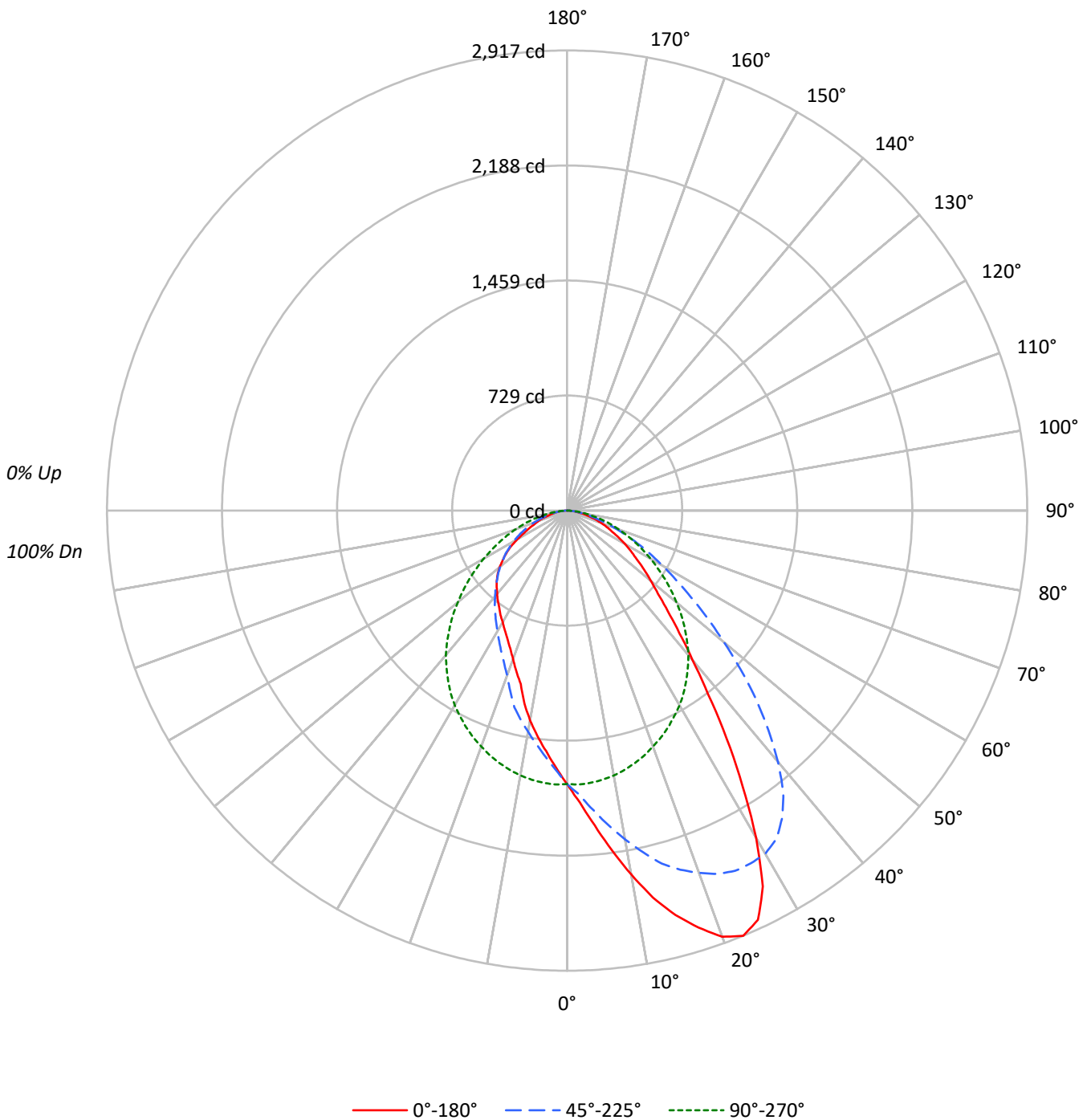
Lumens per Lamp: N/A
Luminaire Lumens: 4382.3 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.22 / 1.39
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

Input Watts (W): 41.1
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: P242740

CATALOG NUMBER: S124RDRP-S1195D830-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot



TEST NUMBER: P242740

CATALOG NUMBER: S124RDRP-S1195D830-X4F0-XX-UDD-A-W

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°	15410	15410	15410	15410	15410
5°	17874	17014	15456	13986	13661
10°	21144	19102	15388	12855	12192
15°	24425	21327	15247	11879	10477
20°	27195	23124	15051	10506	9475
25°	28073	24717	14859	9679	8796
30°	24575	25780	14625	9069	8388
35°	19130	25793	14279	8611	8140
40°	14346	24127	13884	8242	8008
45°	11326	21292	13250	7928	7937
50°	9563	17916	12518	7660	7708
55°	8334	14851	11711	7372	7296
60°	7500	12430	10878	6953	6457
65°	6611	10357	9976	6478	5553
70°	5954	8278	9039	5845	5011
75°	4990	6429	8012	5134	4269
80°	4218	4863	6829	4254	4003
85°	3559	3845	5344	3774	3559

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 22741 cd/sqm



TEST NUMBER: P242740

CATALOG NUMBER: S124RDRP-S1195D830-X4F0-XX-UDD-A-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.9	3.8
10°-20°	506.9	11.6
20°-30°	794.0	18.1
30°-40°	881.8	20.1
40°-50°	781.4	17.8
50°-60°	608.9	13.9
60°-70°	398.3	9.1
70°-80°	195.4	4.5
80°-90°	47.6	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°	1468.8	33.5
0°-40°	2350.6	53.6
0°-60°	3741.0	85.4
0°-90°	4382.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4382.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1734	1734	1734	1734	1734	
5°	2003	1907	1732	1567	1531	202
15°	2654	2318	1657	1291	1138	755
25°	2862	2520	1515	987	897	1278
35°	1763	2377	1316	794	750	1103
45°	901	1694	1054	631	631	710
55°	538	958	756	476	471	488
65°	314	492	474	308	264	316
75°	145	187	233	150	124	160
85°	35	38	52	37	35	40
90°	0	0	0	0	0	



TEST NUMBER: P242740

CATALOG NUMBER: S124RDRP-S1195D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1733.6	1733.6	1733.6	1733.6	1733.6	1733.6	1733.6	1733.6	1733.6	1733.6	1733.6
2.5°	1852.3	1858.6	1852.3	1851.6	1844.6	1842.5	1839.8	1830.7	1813.9	1804.1	1806.2
5°	2003.2	2020.7	2010.9	2009.5	1994.1	1978.7	1969.0	1946.6	1922.9	1906.8	1893.5
7.5°	2170.8	2181.3	2174.3	2166.6	2140.1	2131.7	2108.7	2082.1	2042.3	2012.3	1985.0
10°	2342.6	2351.0	2348.2	2330.1	2311.9	2274.9	2253.9	2212.7	2158.9	2116.3	2076.5
12.5°	2511.7	2520.8	2490.7	2496.3	2457.9	2430.7	2394.3	2339.9	2275.6	2217.6	2165.2
15°	2654.2	2643.0	2643.0	2629.0	2590.6	2550.1	2515.9	2461.4	2383.2	2317.5	2248.4
17.5°	2771.5	2776.4	2770.8	2735.2	2707.2	2666.0	2604.6	2542.4	2474.7	2386.6	2318.2
20°	2874.9	2874.9	2868.6	2846.2	2807.1	2762.4	2694.7	2625.5	2533.3	2444.6	2365.0
22.5°	2916.8	2919.6	2911.9	2894.4	2860.2	2816.9	2761.7	2691.2	2595.5	2492.8	2389.4
25°	2862.3	2875.6	2877.0	2872.1	2861.6	2835.1	2785.5	2713.5	2628.3	2520.1	2413.9
27.5°	2686.3	2703.7	2710.7	2726.1	2754.7	2765.2	2758.9	2710.7	2628.3	2521.5	2416.0
30°	2394.3	2408.3	2453.7	2513.1	2559.2	2601.1	2637.4	2647.2	2605.3	2511.7	2399.2
32.5°	2070.2	2090.5	2135.9	2200.9	2285.4	2363.6	2456.5	2506.1	2515.2	2468.4	2366.4
35°	1762.9	1776.9	1818.8	1885.8	1978.0	2083.5	2212.7	2313.3	2381.8	2376.9	2313.3
37.5°	1468.2	1487.7	1530.3	1585.5	1676.3	1811.1	1933.3	2068.1	2191.1	2251.1	2219.0
40°	1236.3	1237.0	1278.2	1335.5	1419.3	1533.1	1669.3	1823.0	1964.1	2079.3	2101.7
42.5°	1053.3	1053.3	1077.0	1139.9	1194.4	1299.8	1428.4	1580.6	1751.7	1889.3	1957.8
45°	901.0	907.3	929.7	966.7	1014.2	1105.0	1209.0	1350.8	1535.9	1693.8	1792.3
47.5°	780.9	792.1	805.3	838.9	878.0	941.5	1030.2	1162.9	1316.6	1491.9	1628.1
50°	691.5	692.9	711.0	727.8	760.6	808.8	884.3	990.4	1128.7	1295.6	1451.4
52.5°	614.6	613.9	623.0	645.4	670.5	705.4	762.7	857.0	975.8	1121.0	1283.1
55°	537.8	541.3	549.7	566.5	586.7	613.3	661.4	734.1	830.5	958.3	1104.3
57.5°	479.1	481.2	488.9	495.2	514.8	534.3	573.4	625.8	710.3	817.2	960.4
60°	421.9	422.6	424.7	435.1	449.8	468.0	492.4	535.0	603.5	699.2	806.7
62.5°	366.0	367.4	370.9	377.9	388.3	399.5	425.4	457.5	511.3	589.5	683.8
65°	314.3	315.0	319.9	322.7	331.8	342.9	361.8	384.9	424.0	492.4	565.8
67.5°	271.0	271.0	271.0	275.2	282.2	289.9	302.4	322.0	353.4	397.4	465.9
70°	229.1	229.1	230.5	232.6	236.1	242.4	248.7	262.6	284.3	318.5	368.1
72.5°	190.0	190.7	192.1	192.1	193.5	198.4	202.6	210.2	224.9	248.7	286.4
75°	145.3	147.4	150.9	153.7	157.2	156.5	161.3	166.9	171.8	187.2	210.2
77.5°	114.5	113.2	113.2	115.9	116.6	117.3	120.8	125.7	129.9	138.3	146.7
80°	82.4	82.4	84.5	85.2	84.5	85.2	88.7	90.8	92.2	95.0	102.7
82.5°	57.3	58.7	57.3	58.0	58.7	59.4	62.2	62.2	63.6	64.3	66.4
85°	34.9	35.6	36.3	34.9	34.9	34.9	36.3	37.0	38.4	37.7	39.1
87.5°	15.4	14.7	15.4	15.4	16.1	15.4	16.1	17.5	16.1	16.8	16.8
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: P242740

CATALOG NUMBER: S124RDRP-S1195D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1733.6	1733.6	1733.6	1733.6	1733.6	1733.6	1733.6	1733.6	1733.6	1733.6	1733.6
2.5°	1799.2	1789.5	1784.6	1773.4	1760.1	1753.1	1746.9	1737.8	1725.9	1713.3	1704.2
5°	1876.8	1860.0	1839.1	1813.9	1791.6	1769.9	1751.0	1732.2	1710.5	1688.2	1665.8
7.5°	1953.6	1923.6	1891.4	1853.0	1816.0	1781.8	1751.0	1721.0	1686.8	1656.1	1627.4
10°	2034.6	1989.9	1940.3	1887.9	1835.6	1790.2	1745.5	1704.9	1660.2	1620.4	1586.9
12.5°	2100.3	2045.8	1983.6	1915.2	1849.5	1792.3	1739.2	1683.3	1630.9	1586.9	1539.4
15°	2174.3	2102.4	2022.1	1943.8	1862.1	1787.4	1718.2	1656.8	1598.8	1538.0	1495.4
17.5°	2225.3	2142.2	2047.2	1956.4	1862.8	1776.2	1698.0	1626.7	1560.4	1499.6	1449.3
20°	2270.0	2175.7	2067.5	1960.6	1852.3	1758.0	1672.1	1591.1	1522.0	1454.9	1402.5
22.5°	2295.1	2188.3	2067.5	1954.3	1841.1	1737.1	1640.7	1555.5	1478.6	1411.6	1352.2
25°	2296.5	2184.8	2064.0	1935.4	1812.5	1704.2	1606.5	1515.0	1431.2	1364.1	1302.6
27.5°	2291.0	2161.7	2040.2	1909.6	1783.2	1667.9	1566.7	1469.6	1386.4	1315.2	1252.3
30°	2274.2	2133.1	2000.4	1863.5	1735.0	1625.3	1517.1	1424.9	1337.6	1262.8	1199.3
32.5°	2237.9	2098.2	1952.9	1811.8	1681.2	1567.4	1466.1	1373.2	1288.0	1211.1	1142.7
35°	2187.6	2045.8	1890.7	1746.9	1619.0	1501.7	1405.3	1315.9	1234.2	1152.5	1081.2
37.5°	2129.6	1981.5	1828.6	1670.7	1543.6	1431.8	1341.7	1255.8	1176.2	1101.5	1022.5
40°	2040.2	1908.2	1749.0	1592.5	1461.2	1354.3	1272.6	1196.5	1116.1	1042.1	963.2
42.5°	1931.9	1824.4	1663.0	1505.9	1376.7	1274.7	1200.0	1125.9	1054.7	983.4	900.3
45°	1809.0	1723.8	1572.9	1422.1	1291.5	1189.5	1119.6	1054.0	989.7	921.3	843.7
47.5°	1672.1	1609.3	1477.9	1320.1	1197.9	1104.3	1037.2	982.7	926.2	857.0	787.2
50°	1528.2	1491.2	1365.5	1224.4	1109.2	1024.6	955.5	905.2	859.8	794.2	733.4
52.5°	1374.6	1359.2	1257.9	1124.5	1014.2	931.7	875.2	831.2	785.1	733.4	677.5
55°	1218.1	1228.6	1138.5	1021.9	917.1	847.2	793.5	755.7	716.6	670.5	626.5
57.5°	1055.4	1095.2	1028.1	922.7	821.4	755.7	714.5	681.0	648.2	609.1	569.2
60°	912.2	944.3	910.1	820.0	734.1	674.0	636.3	611.9	579.0	544.1	515.5
62.5°	772.5	807.4	790.7	722.2	644.0	594.4	562.3	539.9	517.6	488.2	458.2
65°	660.0	682.4	672.6	622.3	565.8	521.8	491.0	474.3	451.9	429.6	403.0
67.5°	528.0	572.0	565.1	537.1	482.6	447.7	426.1	410.7	389.7	373.0	354.1
70°	415.6	455.4	454.7	433.0	406.5	374.4	360.4	347.8	329.7	313.6	298.9
72.5°	321.3	356.9	363.9	348.5	332.5	310.1	296.8	289.2	271.7	261.9	250.7
75°	238.2	264.7	271.7	271.7	263.3	250.7	238.9	233.3	220.7	210.9	204.0
77.5°	167.6	185.8	196.3	198.4	199.1	194.2	183.0	178.8	169.0	165.5	157.9
80°	110.4	121.5	134.1	138.3	141.8	140.4	136.2	133.4	124.3	120.8	118.0
82.5°	67.8	72.6	82.4	92.9	90.8	95.7	92.2	90.1	83.8	83.1	80.3
85°	39.8	40.5	41.9	48.2	51.7	53.1	53.8	52.4	50.3	50.3	45.4
87.5°	16.8	16.1	17.5	17.5	18.2	21.0	23.0	23.7	21.7	19.6	17.5
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: P242740

CATALOG NUMBER: S124RDRP-S1195D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1733.6	1733.6	1733.6	1733.6	1733.6	1733.6	1733.6	1733.6	1733.6	1733.6	1733.6
2.5°	1694.5	1687.5	1678.4	1667.9	1655.4	1644.2	1639.3	1643.5	1645.6	1640.0	1639.3
5°	1650.5	1633.0	1619.0	1598.1	1581.3	1567.4	1557.6	1553.4	1554.8	1543.6	1540.8
7.5°	1601.6	1582.7	1559.7	1535.9	1513.6	1494.0	1483.5	1478.6	1466.8	1461.9	1454.2
10°	1554.8	1526.8	1504.5	1475.2	1448.6	1424.2	1412.3	1402.5	1390.6	1385.1	1373.2
12.5°	1506.6	1473.1	1447.9	1417.2	1389.9	1359.2	1348.0	1327.8	1307.5	1294.3	1278.2
15°	1461.9	1422.8	1392.7	1356.4	1324.3	1290.8	1260.7	1227.2	1214.6	1188.1	1172.7
17.5°	1408.8	1368.3	1334.8	1288.0	1239.8	1199.3	1165.7	1130.8	1112.0	1093.8	1086.1
20°	1356.4	1320.1	1268.4	1211.8	1156.7	1110.6	1084.7	1063.8	1042.8	1030.9	1022.5
22.5°	1306.8	1257.9	1195.8	1133.6	1078.4	1044.9	1023.9	1002.3	986.2	975.1	963.2
25°	1250.2	1189.5	1125.9	1056.1	1018.4	986.9	963.2	945.7	935.2	920.6	915.0
27.5°	1195.1	1121.7	1049.8	1002.3	963.2	933.1	911.5	898.9	885.0	875.2	867.5
30°	1129.4	1054.7	991.8	947.1	907.3	883.6	866.8	851.4	840.9	833.3	827.7
32.5°	1064.5	989.7	939.4	890.5	861.2	838.2	820.0	809.5	801.8	791.4	788.6
35°	1002.3	935.9	889.8	846.5	814.4	793.5	779.5	767.6	760.6	757.8	755.7
37.5°	941.5	886.3	835.4	800.4	770.4	754.3	736.2	730.6	725.7	719.4	722.2
40°	884.3	833.3	789.3	751.5	728.5	710.3	700.6	693.6	689.4	689.4	689.4
42.5°	834.7	785.1	742.5	709.6	686.6	671.9	660.7	655.2	654.5	653.8	658.0
45°	783.0	736.9	693.6	665.6	646.1	630.7	624.4	619.5	619.5	622.3	623.0
47.5°	731.3	688.0	653.1	620.9	602.8	593.0	587.4	584.6	584.6	588.1	590.9
50°	684.5	641.9	607.7	579.7	563.0	553.9	549.0	547.6	549.0	549.0	553.9
52.5°	633.5	596.5	563.0	540.6	521.1	512.7	510.6	508.5	509.2	512.0	513.4
55°	583.9	549.7	517.6	495.2	481.2	475.7	469.4	470.1	468.7	470.1	470.1
57.5°	533.6	503.6	472.2	454.0	442.1	433.7	426.8	428.9	426.8	426.8	426.1
60°	485.4	451.9	428.2	412.1	398.1	391.1	384.9	386.2	384.2	382.8	380.0
62.5°	433.0	406.5	384.2	368.8	358.3	349.9	343.6	341.5	336.0	330.4	323.4
65°	382.8	359.7	339.5	324.8	314.3	308.0	303.1	298.9	288.5	277.3	271.7
67.5°	333.2	316.4	296.8	284.3	275.9	267.5	258.4	250.7	240.3	233.3	229.8
70°	285.7	269.6	253.5	241.7	232.6	224.9	214.4	209.5	202.6	199.8	196.3
72.5°	240.3	225.6	210.9	200.5	190.7	185.1	177.4	172.5	170.4	169.7	166.2
75°	194.2	182.3	171.1	161.3	153.7	149.5	146.0	142.5	141.1	134.8	131.3
77.5°	149.5	141.1	134.1	126.4	121.5	118.7	111.1	106.2	103.4	99.9	99.2
80°	110.4	104.8	97.8	93.6	85.9	83.1	80.3	79.6	78.9	78.2	77.5
82.5°	76.1	70.5	63.6	61.5	60.8	59.4	58.0	57.3	56.6	57.3	57.3
85°	41.9	39.1	39.1	38.4	37.7	37.0	36.3	36.3	35.6	36.3	35.6
87.5°	17.5	16.8	16.8	15.4	16.1	16.1	15.4	15.4	16.1	14.7	14.7
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: P242740

CATALOG NUMBER: S124RDRP-S1195D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1733.6	1733.6	1733.6	1733.6
2.5°	1635.1	1636.5	1631.6	1630.2
5°	1535.2	1533.8	1530.3	1531.0
7.5°	1448.6	1443.7	1447.2	1441.6
10°	1370.4	1362.7	1356.4	1350.8
12.5°	1263.5	1257.2	1248.2	1251.6
15°	1163.6	1153.2	1136.4	1138.5
17.5°	1074.2	1075.6	1065.9	1068.6
20°	1007.9	1003.0	1003.7	1001.6
22.5°	961.8	955.5	949.2	944.3
25°	908.7	904.5	898.2	896.8
27.5°	861.9	861.2	858.4	854.9
30°	822.1	820.7	819.3	817.2
32.5°	786.5	785.8	784.4	785.1
35°	752.9	752.2	750.8	750.1
37.5°	721.5	723.6	722.2	722.2
40°	688.7	689.4	690.8	690.1
42.5°	661.4	661.4	663.5	660.7
45°	627.9	632.1	631.4	631.4
47.5°	592.3	597.2	597.9	597.9
50°	557.4	556.0	558.1	557.4
52.5°	514.8	515.5	514.8	514.1
55°	470.8	471.5	470.1	470.8
57.5°	424.0	421.2	423.3	421.9
60°	373.0	367.4	366.0	363.2
62.5°	315.7	312.2	306.6	310.1
65°	266.1	263.3	261.2	264.0
67.5°	226.3	224.9	224.9	223.5
70°	196.3	194.2	194.2	192.8
72.5°	165.5	163.4	164.1	163.4
75°	127.1	123.6	123.6	124.3
77.5°	99.2	98.5	99.9	97.8
80°	77.5	76.8	76.1	78.2
82.5°	55.9	55.9	55.9	58.7
85°	36.3	34.9	36.3	34.9
87.5°	16.1	15.4	14.7	15.4
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242740
 CATALOG NUMBER: S124RDRP-S1195D830-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	18.60	20.13	18.97	20.44	20.75	20.42	21.94	20.79	22.26	22.57
	3H	19.83	21.20	20.21	21.52	21.89	21.88	23.24	22.25	23.57	23.93
	4H	20.26	21.54	20.66	21.89	22.27	22.39	23.67	22.79	24.02	24.40
	6H	20.54	21.72	20.95	22.09	22.48	22.74	23.93	23.16	24.29	24.69
	8H	20.62	21.74	21.04	22.13	22.53	22.85	23.97	23.27	24.36	24.76
	12H	20.67	21.74	21.10	22.13	22.56	22.90	23.98	23.34	24.36	24.79
4H	2H	19.86	21.14	20.26	21.49	21.87	20.93	22.21	21.33	22.56	22.94
	3H	21.10	22.16	21.51	22.56	22.96	22.67	23.73	23.08	24.13	24.53
	4H	21.56	22.52	22.00	22.93	23.37	23.30	24.25	23.73	24.67	25.11
	6H	21.89	22.72	22.34	23.16	23.62	23.75	24.58	24.21	25.03	25.49
	8H	21.98	22.76	22.45	23.20	23.67	23.89	24.67	24.35	25.11	25.58
	12H	22.05	22.74	22.53	23.22	23.69	23.98	24.67	24.46	25.15	25.62
8H	4H	21.97	22.74	22.43	23.19	23.65	23.41	24.19	23.87	24.63	25.10
	6H	22.35	22.99	22.85	23.48	23.96	23.95	24.59	24.45	25.08	25.56
	8H	22.49	23.06	23.00	23.57	24.06	24.14	24.72	24.66	25.23	25.72
	12H	22.60	23.11	23.11	23.60	24.16	24.29	24.80	24.80	25.29	25.85
12H	4H	22.00	22.69	22.48	23.17	23.64	23.40	24.09	23.88	24.57	25.04
	6H	22.40	22.98	22.91	23.49	23.97	23.94	24.52	24.46	25.03	25.51
	8H	22.58	23.09	23.09	23.58	24.15	24.17	24.68	24.68	25.17	25.74