

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: P242911

Luminaire Tested: S125RDRP-S1090D830-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242911
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-S1090D830-X4F0-XX-UDD-A-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

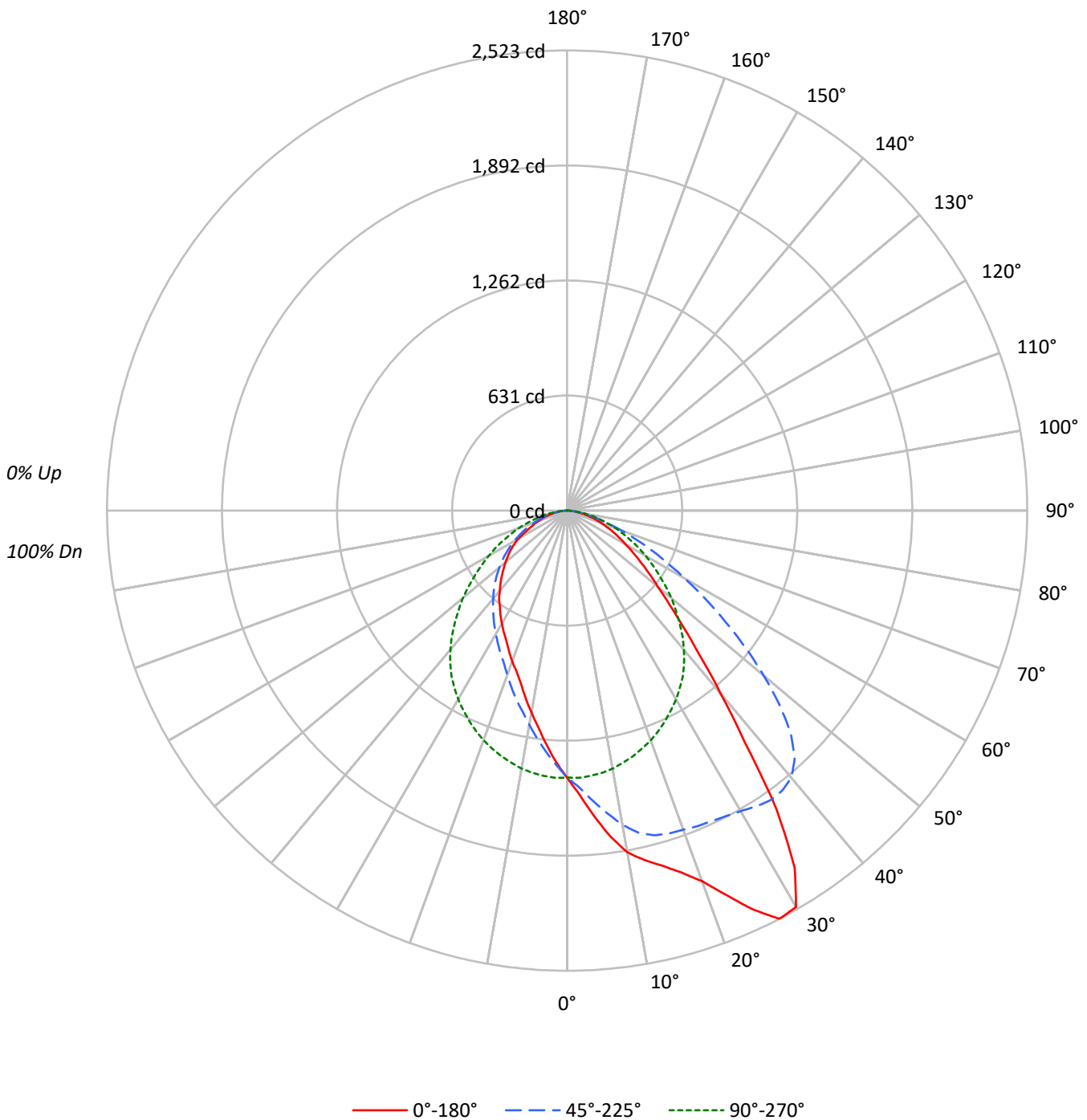
Lumens per Lamp: N/A
Luminaire Lumens: 3792.9 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.21 / 1.48
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10404	10404	10404	10404	10404
5°	11971	11379	10418	9467	9201
10°	13731	12621	10366	8605	8119
15°	14831	13562	10259	7902	7217
20°	16354	14081	10136	7254	6663
25°	18926	14727	9972	6782	6183
30°	20596	15614	9800	6406	5869
35°	17374	16831	9600	6111	5579
40°	12133	17741	9239	5854	5330
45°	9000	17456	8753	5612	5086
50°	7176	15555	8246	5349	4877
55°	6092	13062	7618	5078	4691
60°	5262	10584	7056	4766	4391
65°	4689	8449	6448	4416	3781
70°	4121	6481	5906	4009	3447
75°	3564	4836	5116	3564	3235
80°	2705	3467	4306	3172	2705
85°	2251	2446	3384	2699	2544

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 17456 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.4	3.7
10°-20°	411.6	10.9
20°-30°	652.6	17.2
30°-40°	788.6	20.8
40°-50°	702.2	18.5
50°-60°	538.4	14.2
60°-70°	349.7	9.2
70°-80°	169.7	4.5
80°-90°	39.9	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°	1204.5	31.8
0°-40°	1993.1	52.5
0°-60°	3233.7	85.3
0°-90°	3792.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3792.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1464	1464	1464	1464	1464	
5°	1678	1595	1460	1327	1290	167
15°	2016	1843	1394	1074	981	577
25°	2413	1878	1272	865	788	1111
35°	2002	1940	1106	704	643	1214
45°	895	1737	871	558	506	710
55°	492	1054	615	410	379	445
65°	279	502	383	263	225	277
75°	130	176	186	130	118	138
85°	28	30	42	33	31	33
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°	1463.9	1463.9	1463.9	1463.9	1463.9	1463.9	1463.9	1463.9	1463.9	1463.9	1463.9
2.5°	1558.9	1557.7	1560.1	1553.5	1554.1	1543.8	1543.8	1536.0	1525.8	1518.0	1514.4
5°	1677.9	1679.1	1676.7	1667.6	1661.6	1652.6	1642.4	1624.4	1609.3	1594.9	1583.5
7.5°	1799.2	1800.4	1792.6	1790.8	1775.2	1765.6	1742.8	1719.3	1698.9	1671.8	1652.6
10°	1902.6	1902.0	1893.6	1887.0	1873.8	1856.9	1834.7	1805.9	1778.8	1748.8	1719.9
12.5°	1962.7	1960.9	1959.7	1951.3	1939.3	1924.8	1906.8	1878.6	1843.7	1810.1	1775.2
15°	2015.6	2011.4	2003.6	1993.4	1975.9	1958.5	1937.5	1912.2	1880.4	1843.1	1811.9
17.5°	2079.3	2079.9	2067.9	2057.1	2034.2	2005.4	1974.1	1935.7	1894.8	1856.9	1825.7
20°	2162.2	2160.4	2148.4	2120.8	2093.7	2055.3	2018.0	1968.1	1915.2	1861.7	1820.3
22.5°	2281.2	2275.8	2263.2	2224.7	2179.0	2126.8	2064.9	2001.2	1934.5	1872.0	1814.3
25°	2413.4	2409.8	2385.2	2343.1	2284.2	2207.9	2133.4	2049.8	1957.9	1878.0	1811.9
27.5°	2522.8	2515.6	2493.3	2453.7	2396.0	2313.7	2210.9	2102.7	1993.4	1888.2	1797.4
30°	2509.6	2518.6	2516.2	2500.0	2459.1	2387.0	2293.8	2168.2	2031.8	1902.6	1789.0
32.5°	2320.9	2328.7	2355.7	2399.6	2412.8	2394.8	2331.1	2217.5	2075.1	1923.6	1782.4
35°	2002.4	2013.2	2054.1	2118.4	2202.5	2272.8	2287.2	2224.7	2097.9	1939.9	1775.8
37.5°	1597.3	1667.6	1695.3	1760.8	1893.0	2021.0	2132.2	2157.4	2088.9	1936.3	1768.0
40°	1307.7	1322.1	1383.4	1459.7	1566.7	1701.3	1878.6	2006.6	2010.8	1912.2	1742.8
42.5°	1072.1	1091.3	1128.6	1185.7	1273.4	1408.0	1592.5	1771.6	1868.4	1846.1	1709.7
45°	895.4	909.2	939.9	986.8	1057.1	1168.2	1325.7	1521.0	1676.1	1736.7	1645.4
47.5°	757.2	764.4	792.7	830.5	884.6	968.7	1096.7	1273.4	1457.9	1581.1	1557.1
50°	649.0	657.4	677.9	704.9	748.8	817.3	914.6	1055.9	1247.6	1406.8	1438.7
52.5°	564.9	571.5	582.3	607.6	641.8	690.5	764.4	888.8	1056.5	1228.3	1312.5
55°	491.6	496.4	506.6	521.0	549.9	587.7	655.6	744.0	883.4	1054.1	1162.2
57.5°	429.1	431.5	437.5	451.9	472.9	501.2	552.9	633.4	734.4	894.8	1013.8
60°	370.2	372.6	381.0	390.0	405.6	430.9	469.3	521.6	617.8	744.6	865.4
62.5°	323.3	324.5	326.9	335.9	349.2	367.2	395.4	435.7	507.2	614.8	727.2
65°	278.8	279.4	280.6	287.9	296.3	310.7	330.5	360.6	418.3	502.4	603.4
67.5°	234.4	235.6	239.8	242.2	252.4	259.6	272.2	296.3	340.7	400.8	482.6
70°	198.3	197.7	201.9	204.9	207.9	216.9	224.8	243.4	268.6	311.9	377.4
72.5°	164.7	162.9	164.1	164.7	168.9	174.3	182.1	191.7	209.7	236.2	282.4
75°	129.8	130.4	130.4	131.6	134.6	137.0	139.4	145.4	156.2	176.1	203.1
77.5°	97.4	96.2	99.2	99.2	101.6	104.6	106.4	108.8	113.0	122.0	138.2
80°	66.1	66.1	66.7	68.5	67.9	69.1	72.1	74.5	79.9	84.7	89.5
82.5°	46.9	46.3	46.9	46.9	46.9	48.1	48.7	48.7	49.9	51.7	54.7
85°	27.6	27.6	28.2	28.2	28.8	28.8	29.4	29.4	29.4	30.0	30.6
87.5°	13.2	12.6	12.0	12.0	12.6	13.8	13.2	12.6	12.6	12.6	13.2
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°	1463.9	1463.9	1463.9	1463.9	1463.9	1463.9	1463.9	1463.9	1463.9	1463.9	1463.9
2.5°	1514.4	1510.2	1502.4	1495.2	1486.2	1478.3	1472.9	1466.3	1457.9	1447.7	1439.3
5°	1570.9	1557.7	1540.2	1525.2	1506.0	1491.0	1475.3	1460.3	1445.3	1426.1	1409.2
7.5°	1633.4	1607.5	1583.5	1552.3	1524.0	1499.4	1475.3	1450.7	1427.3	1400.8	1376.2
10°	1689.9	1656.8	1620.2	1578.1	1539.6	1503.0	1469.3	1436.3	1401.4	1370.8	1337.7
12.5°	1742.8	1697.7	1654.4	1598.5	1550.5	1503.6	1458.5	1415.2	1377.4	1335.3	1299.3
15°	1770.4	1728.3	1681.5	1616.6	1552.3	1498.2	1447.7	1394.2	1347.9	1303.5	1263.8
17.5°	1786.6	1742.2	1688.1	1625.0	1555.9	1488.6	1424.9	1367.8	1314.9	1263.8	1219.9
20°	1779.4	1736.7	1680.9	1621.4	1546.2	1475.3	1405.0	1340.1	1279.4	1224.7	1177.3
22.5°	1762.0	1717.5	1664.0	1600.3	1530.0	1453.7	1377.4	1307.1	1242.8	1185.7	1132.8
25°	1744.6	1684.5	1629.2	1567.9	1500.0	1425.5	1347.9	1271.6	1203.7	1146.0	1089.5
27.5°	1727.7	1655.0	1586.5	1527.6	1454.9	1387.6	1311.9	1233.2	1162.2	1103.9	1046.3
30°	1703.1	1619.0	1541.4	1472.3	1404.4	1341.3	1270.4	1194.1	1120.8	1060.1	1001.2
32.5°	1672.4	1581.7	1494.6	1412.2	1347.3	1284.8	1222.3	1150.2	1079.3	1016.2	956.1
35°	1647.8	1533.6	1441.1	1356.3	1283.6	1222.9	1165.2	1106.4	1034.8	969.9	911.6
37.5°	1613.6	1488.0	1383.4	1290.8	1215.1	1155.0	1108.8	1052.9	986.2	923.1	869.0
40°	1582.9	1437.5	1320.3	1228.9	1148.4	1084.1	1041.4	995.8	936.3	878.0	823.9
42.5°	1542.0	1391.2	1256.6	1160.4	1079.3	1018.0	974.7	936.3	888.8	834.7	775.8
45°	1486.2	1328.7	1191.1	1088.9	1007.2	946.5	906.2	870.8	832.9	782.4	732.0
47.5°	1419.4	1269.2	1124.4	1012.0	933.3	876.2	836.5	807.1	779.4	735.6	684.5
50°	1335.9	1192.3	1051.7	943.5	858.2	804.7	768.0	745.8	721.1	682.1	641.2
52.5°	1237.4	1113.0	975.9	864.8	785.4	736.2	701.3	679.1	659.8	629.8	591.3
55°	1132.8	1020.4	894.2	793.9	719.9	669.5	635.8	614.8	602.8	575.7	545.1
57.5°	1014.4	927.9	813.7	715.7	649.0	598.5	573.3	554.7	540.9	521.0	498.2
60°	889.4	832.9	733.2	641.2	581.1	533.6	511.4	496.4	483.8	467.5	450.7
62.5°	762.6	725.3	641.8	566.1	512.0	474.2	453.7	440.5	425.5	415.9	399.6
65°	652.0	615.4	555.3	493.4	442.3	410.4	395.4	383.4	374.4	362.4	351.0
67.5°	529.4	512.6	468.1	421.9	384.6	354.0	340.7	331.1	320.9	313.7	305.3
70°	418.3	411.1	381.6	353.4	319.1	299.9	287.9	284.2	271.0	263.8	258.4
72.5°	319.7	317.3	303.5	286.1	264.4	248.2	237.4	233.2	226.0	220.5	217.5
75°	232.6	233.8	230.8	218.1	209.1	198.3	188.7	186.3	180.3	175.5	172.5
77.5°	158.7	164.7	163.5	162.9	158.7	150.8	146.6	144.8	138.2	136.4	135.8
80°	101.0	107.6	113.6	113.0	111.8	110.0	107.0	105.2	102.2	100.4	99.2
82.5°	58.9	64.9	69.7	73.9	73.9	72.1	70.3	69.7	69.7	68.5	68.5
85°	31.9	33.1	34.9	39.1	42.1	42.7	42.1	41.5	39.7	40.3	40.9
87.5°	13.8	13.8	14.4	14.4	13.8	16.8	18.6	19.2	18.0	16.8	15.6
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°	1463.9	1463.9	1463.9	1463.9	1463.9	1463.9	1463.9	1463.9	1463.9	1463.9	1463.9
2.5°	1433.3	1424.9	1418.8	1406.8	1398.4	1394.8	1388.2	1386.4	1393.0	1388.2	1387.6
5°	1396.6	1379.2	1365.4	1351.5	1336.5	1326.9	1312.5	1310.1	1306.5	1301.1	1299.9
7.5°	1353.9	1332.3	1316.1	1293.2	1274.6	1259.6	1241.6	1234.4	1230.7	1224.1	1213.3
10°	1310.7	1283.6	1259.6	1236.8	1212.1	1192.3	1174.3	1160.4	1151.4	1143.0	1139.4
12.5°	1268.0	1240.4	1207.9	1179.1	1150.8	1128.0	1107.6	1099.7	1089.5	1079.3	1069.7
15°	1223.5	1186.9	1153.2	1121.4	1097.9	1073.9	1054.7	1041.4	1026.4	1022.2	1006.0
17.5°	1176.1	1141.8	1102.1	1067.9	1041.4	1016.2	995.2	979.6	968.1	951.9	944.1
20°	1132.2	1089.5	1051.1	1020.4	990.4	959.1	937.5	924.9	914.0	901.4	895.4
22.5°	1085.3	1043.9	1004.2	966.9	936.3	905.6	891.8	878.6	866.0	854.6	846.1
25°	1039.6	997.6	956.1	918.9	887.0	864.8	846.7	831.7	825.1	813.7	805.3
27.5°	994.0	949.5	907.4	868.4	843.7	821.5	807.1	795.1	782.4	772.2	764.4
30°	950.1	904.4	857.6	828.1	801.7	780.6	764.4	753.0	744.0	735.0	729.6
32.5°	906.2	858.8	818.5	786.0	761.4	744.0	727.2	716.3	706.7	696.5	689.9
35°	858.8	810.7	777.0	745.8	721.1	704.3	692.9	677.3	669.5	662.2	655.6
37.5°	816.1	770.4	733.2	706.1	683.3	667.1	652.0	644.2	634.0	628.0	622.6
40°	768.0	727.2	694.1	665.3	649.6	631.0	617.2	606.4	599.1	590.7	584.7
42.5°	724.7	687.5	655.6	630.4	610.0	594.9	581.7	570.9	561.3	555.9	551.1
45°	684.5	646.6	615.4	591.3	573.3	558.3	544.5	539.1	527.0	519.8	517.4
47.5°	642.4	608.2	577.5	555.3	536.6	522.8	509.6	497.6	491.6	484.4	480.8
50°	599.7	567.3	539.1	517.4	499.4	483.8	471.7	464.5	455.5	448.9	444.1
52.5°	557.1	527.6	499.4	479.0	463.9	448.3	434.5	427.3	418.9	415.3	412.3
55°	516.8	485.0	460.9	440.5	424.3	409.8	397.2	390.0	384.6	380.4	379.2
57.5°	470.5	444.7	421.9	403.8	386.4	372.6	361.2	354.6	349.8	349.2	344.9
60°	425.5	402.6	382.2	362.4	348.0	335.3	325.7	317.9	313.1	312.5	311.3
62.5°	380.4	358.8	340.1	323.3	310.7	298.7	289.7	280.6	278.2	274.6	271.6
65°	335.9	316.1	300.5	286.7	272.8	262.6	253.6	248.2	241.6	238.0	231.4
67.5°	292.1	275.8	260.8	249.4	238.0	227.8	219.9	212.1	207.3	204.3	198.9
70°	248.8	236.8	221.8	209.1	200.7	192.9	186.9	177.9	174.9	172.5	170.1
72.5°	207.9	197.7	185.7	176.1	167.7	160.5	153.2	150.2	147.2	144.8	143.6
75°	170.1	159.9	149.0	141.8	135.8	129.8	126.2	123.2	122.0	121.4	119.0
77.5°	132.2	126.2	117.2	110.6	106.4	104.0	100.4	99.2	99.8	96.8	96.2
80°	95.6	92.5	85.3	82.9	79.9	77.5	75.7	72.7	69.7	68.5	66.7
82.5°	64.9	61.9	60.1	55.9	53.5	52.3	50.5	49.9	51.1	49.3	48.7
85°	37.9	34.9	33.7	33.1	31.9	33.1	32.5	31.9	31.2	30.6	31.2
87.5°	15.0	15.0	14.4	15.6	13.8	14.4	14.4	13.8	13.8	13.8	13.2
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: P242911

CATALOG NUMBER: S125RDRP-S1090D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1463.9	1463.9	1463.9	1463.9
2.5°	1387.0	1380.4	1378.6	1381.0
5°	1293.8	1287.8	1290.8	1289.6
7.5°	1215.1	1207.3	1198.3	1200.7
10°	1131.6	1125.6	1122.0	1125.0
12.5°	1061.3	1058.3	1055.3	1052.9
15°	998.8	991.6	988.6	980.8
17.5°	938.7	936.3	928.5	923.1
20°	886.4	884.0	876.2	881.0
22.5°	843.1	837.1	835.9	832.9
25°	802.9	795.1	792.1	788.4
27.5°	762.0	757.8	753.6	752.4
30°	722.3	718.1	715.1	715.1
32.5°	686.9	683.9	680.9	680.3
35°	652.6	647.8	646.6	643.0
37.5°	616.6	612.4	612.4	613.0
40°	582.3	579.3	578.7	574.5
42.5°	545.7	544.5	542.1	540.9
45°	513.2	509.0	509.0	506.0
47.5°	479.0	475.4	476.0	472.3
50°	444.7	442.9	442.3	441.1
52.5°	410.4	409.8	412.9	409.8
55°	380.4	378.6	382.2	378.6
57.5°	344.9	343.7	347.3	344.9
60°	310.1	306.5	308.3	308.9
62.5°	268.6	266.8	268.0	264.4
65°	230.2	228.4	226.0	224.8
67.5°	200.1	194.7	194.7	195.9
70°	166.5	166.5	165.9	165.9
72.5°	143.0	142.4	141.2	140.6
75°	119.0	119.6	118.4	117.8
77.5°	93.1	90.1	91.3	90.1
80°	66.7	66.1	67.9	66.1
82.5°	49.3	48.7	49.3	48.1
85°	31.9	31.2	30.6	31.2
87.5°	13.8	13.2	13.2	13.2
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P242911
 CATALOG NUMBER: S125RDRP-S1090D830-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	17.76	19.30	18.13	19.61	19.92	18.74	20.28	19.11	20.59	20.90
	3H	18.89	20.27	19.27	20.59	20.96	20.22	21.59	20.60	21.92	22.28
	4H	19.27	20.57	19.67	20.91	21.29	20.73	22.02	21.13	22.37	22.75
	6H	19.51	20.70	19.92	21.06	21.46	21.08	22.27	21.49	22.64	23.03
	8H	19.56	20.70	19.99	21.09	21.49	21.18	22.31	21.60	22.70	23.10
	12H	19.59	20.68	20.03	21.06	21.49	21.23	22.32	21.66	22.70	23.13
4H	2H	19.35	20.64	19.75	20.99	21.37	19.59	20.88	19.99	21.23	21.61
	3H	20.42	21.49	20.83	21.89	22.29	21.25	22.32	21.66	22.72	23.12
	4H	20.80	21.76	21.23	22.18	22.62	21.84	22.80	22.27	23.21	23.65
	6H	21.06	21.89	21.51	22.34	22.80	22.26	23.10	22.72	23.54	24.00
	8H	21.12	21.90	21.58	22.34	22.81	22.39	23.17	22.85	23.61	24.08
	12H	21.16	21.86	21.65	22.34	22.81	22.47	23.17	22.95	23.65	24.12
8H	4H	21.18	21.96	21.64	22.40	22.87	21.98	22.77	22.45	23.21	23.68
	6H	21.48	22.13	21.98	22.62	23.09	22.50	23.15	23.00	23.64	24.11
	8H	21.57	22.15	22.09	22.66	23.15	22.68	23.26	23.19	23.76	24.25
	12H	21.65	22.17	22.16	22.66	23.22	22.81	23.32	23.32	23.82	24.38
12H	4H	21.20	21.90	21.68	22.38	22.85	21.97	22.67	22.46	23.15	23.62
	6H	21.51	22.09	22.03	22.60	23.09	22.49	23.07	23.01	23.58	24.07
	8H	21.65	22.16	22.16	22.65	23.21	22.71	23.22	23.22	23.71	24.28