

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: P242748

Luminaire Tested: S124RDRP-S795D840-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242748
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-S795D840-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

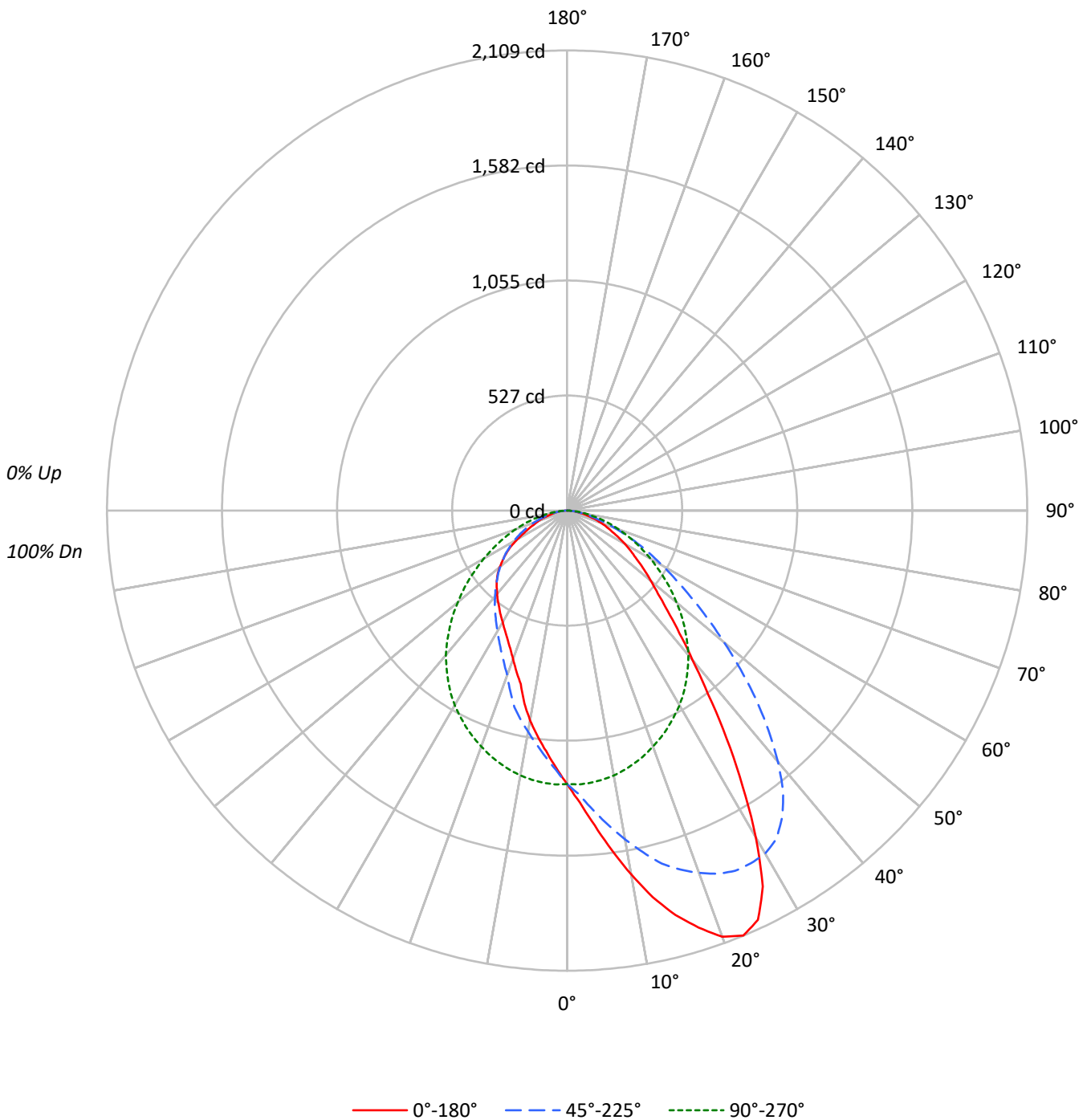
Lumens per Lamp: N/A
Luminaire Lumens: 3168.0 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.22 / 1.39
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

Input Watts (W): 26.3
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																		
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	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	92	86	81	88	83	79	85	81	77	82	79	76	74									74																			
3	93	83	76	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63									63																			
4	85	74	66	60	83	73	65	59	71	64	59	68	63	58	66	61	57	55									55																			
5	79	67	58	52	77	66	58	52	64	57	51	62	56	51	60	55	50	48									48																			
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43									43																			
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38									38																			
8	64	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34									34																			
9	59	47	39	33	58	46	38	33	45	38	33	44	38	33	43	37	33	31									31																			
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28									28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	11140	11140	11140	11140	11140
5°	12922	12300	11173	10110	9876
10°	15286	13810	11125	9293	8814
15°	17657	15418	11022	8587	7574
20°	19659	16718	10880	7594	6850
25°	20294	17868	10742	6998	6358
30°	17766	18636	10573	6556	6064
35°	13830	18646	10323	6224	5885
40°	10370	17443	10037	5958	5789
45°	8189	15393	9578	5732	5739
50°	6913	12953	9049	5537	5572
55°	6025	10737	8466	5330	5274
60°	5422	8985	7863	5028	4668
65°	4779	7488	7212	4684	4015
70°	4304	5983	6536	4226	3623
75°	3606	4647	5790	3713	3088
80°	3051	3517	4935	3076	2897
85°	2570	2784	3865	2733	2570

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 16440 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.3	3.8
10°-20°	366.5	11.6
20°-30°	574.0	18.1
30°-40°	637.5	20.1
40°-50°	564.9	17.8
50°-60°	440.2	13.9
60°-70°	287.9	9.1
70°-80°	141.3	4.5
80°-90°	34.4	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°	1061.8	33.5
0°-40°	1699.3	53.6
0°-60°	2704.4	85.4
0°-90°	3168.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3168.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1253	1253	1253	1253	1253	
5°	1448	1378	1252	1133	1107	146
15°	1919	1675	1198	933	823	546
25°	2069	1822	1095	714	648	924
35°	1274	1718	951	574	542	798
45°	651	1224	762	456	456	514
55°	389	693	546	344	340	353
65°	227	356	343	223	191	228
75°	105	135	169	108	90	115
85°	25	27	38	27	25	29
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°	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2
2.5°	1339.1	1343.6	1339.1	1338.6	1333.5	1332.0	1330.0	1323.4	1311.3	1304.2	1305.8
5°	1448.2	1460.8	1453.7	1452.7	1441.6	1430.5	1423.4	1407.3	1390.1	1378.5	1368.9
7.5°	1569.3	1576.9	1571.9	1566.3	1547.1	1541.1	1524.4	1505.2	1476.4	1454.7	1435.0
10°	1693.5	1699.6	1697.6	1684.5	1671.3	1644.6	1629.4	1599.6	1560.8	1530.0	1501.2
12.5°	1815.7	1822.3	1800.6	1804.6	1776.9	1757.2	1730.9	1691.5	1645.1	1603.2	1565.3
15°	1918.7	1910.7	1910.7	1900.6	1872.8	1843.5	1818.8	1779.4	1722.8	1675.4	1625.4
17.5°	2003.6	2007.1	2003.1	1977.3	1957.1	1927.3	1882.9	1838.0	1789.0	1725.4	1675.9
20°	2078.3	2078.3	2073.8	2057.6	2029.3	1997.0	1948.0	1898.0	1831.4	1767.3	1709.7
22.5°	2108.6	2110.6	2105.1	2092.4	2067.7	2036.4	1996.5	1945.5	1876.3	1802.1	1727.4
25°	2069.2	2078.8	2079.8	2076.3	2068.7	2049.5	2013.7	1961.7	1900.1	1821.8	1745.1
27.5°	1942.0	1954.6	1959.6	1970.8	1991.5	1999.0	1994.5	1959.6	1900.1	1822.8	1746.6
30°	1730.9	1741.0	1773.8	1816.8	1850.1	1880.4	1906.6	1913.7	1883.4	1815.7	1734.4
32.5°	1496.6	1511.3	1544.1	1591.0	1652.1	1708.7	1775.9	1811.7	1818.3	1784.4	1710.7
35°	1274.5	1284.6	1314.8	1363.3	1430.0	1506.2	1599.6	1672.3	1721.8	1718.3	1672.3
37.5°	1061.4	1075.5	1106.3	1146.2	1211.8	1309.3	1397.7	1495.1	1584.0	1627.4	1604.2
40°	893.7	894.2	924.0	965.4	1026.0	1108.3	1206.8	1317.9	1419.9	1503.2	1519.3
42.5°	761.4	761.4	778.6	824.1	863.4	939.7	1032.6	1142.7	1266.4	1365.8	1415.3
45°	651.4	655.9	672.1	698.8	733.2	798.8	874.0	976.5	1110.4	1224.5	1295.7
47.5°	564.5	572.6	582.2	606.4	634.7	680.7	744.8	840.7	951.8	1078.5	1177.0
50°	499.9	500.9	514.0	526.1	549.9	584.7	639.2	716.0	816.0	936.7	1049.3
52.5°	444.3	443.8	450.4	466.6	484.7	510.0	551.4	619.6	705.4	810.4	927.6
55°	388.8	391.3	397.4	409.5	424.1	443.3	478.2	530.7	600.4	692.8	798.3
57.5°	346.4	347.9	353.5	358.0	372.1	386.3	414.6	452.4	513.5	590.8	694.3
60°	305.0	305.5	307.0	314.6	325.2	338.3	356.0	386.8	436.3	505.4	583.2
62.5°	264.6	265.6	268.1	273.2	280.7	288.8	307.5	330.7	369.6	426.2	494.3
65°	227.2	227.7	231.3	233.3	239.8	247.9	261.6	278.2	306.5	356.0	409.0
67.5°	195.9	195.9	195.9	198.9	204.0	209.5	218.6	232.8	255.5	287.3	336.8
70°	165.6	165.6	166.6	168.1	170.7	175.2	179.8	189.9	205.5	230.2	266.1
72.5°	137.3	137.8	138.9	138.9	139.9	143.4	146.4	152.0	162.6	179.8	207.0
75°	105.0	106.5	109.1	111.1	113.6	113.1	116.6	120.7	124.2	135.3	152.0
77.5°	82.8	81.8	81.8	83.8	84.3	84.8	87.4	90.9	93.9	100.0	106.0
80°	59.6	59.6	61.1	61.6	61.1	61.6	64.1	65.6	66.7	68.7	74.2
82.5°	41.4	42.4	41.4	41.9	42.4	42.9	44.9	44.9	45.9	46.5	48.0
85°	25.2	25.8	26.3	25.2	25.2	25.2	26.3	26.8	27.8	27.3	28.3
87.5°	11.1	10.6	11.1	11.1	11.6	11.1	11.6	12.6	11.6	12.1	12.1
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°	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2
2.5°	1300.7	1293.6	1290.1	1282.0	1272.4	1267.4	1262.8	1256.3	1247.7	1238.6	1232.0
5°	1356.8	1344.6	1329.5	1311.3	1295.2	1279.5	1265.9	1252.2	1236.6	1220.4	1204.3
7.5°	1412.3	1390.6	1367.4	1339.6	1312.8	1288.1	1265.9	1244.2	1219.4	1197.2	1176.5
10°	1470.9	1438.6	1402.7	1364.8	1327.0	1294.1	1261.8	1232.5	1200.2	1171.4	1147.2
12.5°	1518.3	1479.0	1434.0	1384.5	1337.1	1295.7	1257.3	1216.9	1179.0	1147.2	1112.9
15°	1571.9	1519.9	1461.8	1405.2	1346.2	1292.1	1242.1	1197.7	1155.8	1111.9	1081.1
17.5°	1608.7	1548.6	1480.0	1414.3	1346.7	1284.0	1227.5	1176.0	1128.0	1084.1	1047.7
20°	1641.0	1572.9	1494.6	1417.4	1339.1	1270.9	1208.8	1150.2	1100.3	1051.8	1013.9
22.5°	1659.2	1582.0	1494.6	1412.8	1331.0	1255.8	1186.1	1124.5	1068.9	1020.5	977.6
25°	1660.2	1579.4	1492.1	1399.2	1310.3	1232.0	1161.3	1095.2	1034.6	986.1	941.7
27.5°	1656.2	1562.8	1474.9	1380.5	1289.1	1205.8	1132.6	1062.4	1002.3	950.8	905.3
30°	1644.1	1542.1	1446.1	1347.2	1254.3	1175.0	1096.7	1030.1	966.9	912.9	867.0
32.5°	1617.8	1516.8	1411.8	1309.8	1215.4	1133.1	1059.9	992.7	931.1	875.6	826.1
35°	1581.5	1479.0	1366.9	1262.8	1170.4	1085.6	1015.9	951.3	892.2	833.1	781.6
37.5°	1539.5	1432.5	1321.9	1207.8	1115.9	1035.1	970.0	907.9	850.3	796.3	739.2
40°	1474.9	1379.5	1264.4	1151.2	1056.3	979.1	920.0	865.0	806.9	753.4	696.3
42.5°	1396.6	1318.9	1202.2	1088.6	995.2	921.5	867.5	814.0	762.5	710.9	650.9
45°	1307.8	1246.2	1137.1	1028.0	933.6	859.9	809.4	761.9	715.5	666.0	610.0
47.5°	1208.8	1163.4	1068.4	954.3	866.0	798.3	749.8	710.4	669.5	619.6	569.1
50°	1104.8	1078.0	987.1	885.1	801.8	740.7	690.7	654.4	621.6	574.1	530.2
52.5°	993.7	982.6	909.4	812.9	733.2	673.6	632.7	600.9	567.5	530.2	489.8
55°	880.6	888.2	823.0	738.7	663.0	612.5	573.6	546.3	518.1	484.7	452.9
57.5°	763.0	791.7	743.3	667.0	593.8	546.3	516.5	492.3	468.6	440.3	411.5
60°	659.4	682.7	657.9	592.8	530.7	487.3	460.0	442.3	418.6	393.3	372.6
62.5°	558.5	583.7	571.6	522.1	465.5	429.7	406.5	390.3	374.2	352.9	331.2
65°	477.2	493.3	486.3	449.9	409.0	377.2	355.0	342.9	326.7	310.5	291.3
67.5°	381.7	413.5	408.5	388.3	348.9	323.7	308.0	296.9	281.8	269.6	256.0
70°	300.4	329.2	328.7	313.1	293.9	270.6	260.5	251.5	238.3	226.7	216.1
72.5°	232.3	258.0	263.1	252.0	240.3	224.2	214.6	209.0	196.4	189.4	181.3
75°	172.2	191.4	196.4	196.4	190.4	181.3	172.7	168.6	159.6	152.5	147.4
77.5°	121.2	134.3	141.9	143.4	143.9	140.4	132.3	129.3	122.2	119.7	114.1
80°	79.8	87.9	96.9	100.0	102.5	101.5	98.5	96.4	89.9	87.4	85.3
82.5°	49.0	52.5	59.6	67.2	65.6	69.2	66.7	65.1	60.6	60.1	58.1
85°	28.8	29.3	30.3	34.8	37.4	38.4	38.9	37.9	36.4	36.4	32.8
87.5°	12.1	11.6	12.6	12.6	13.1	15.1	16.7	17.2	15.7	14.1	12.6
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°	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2
2.5°	1225.0	1219.9	1213.4	1205.8	1196.7	1188.6	1185.1	1188.1	1189.6	1185.6	1185.1
5°	1193.2	1180.5	1170.4	1155.3	1143.2	1133.1	1126.0	1123.0	1124.0	1115.9	1113.9
7.5°	1157.8	1144.2	1127.5	1110.4	1094.2	1080.1	1072.5	1068.9	1060.4	1056.8	1051.3
10°	1124.0	1103.8	1087.6	1066.4	1047.2	1029.6	1021.0	1013.9	1005.3	1001.3	992.7
12.5°	1089.1	1064.9	1046.7	1024.5	1004.8	982.6	974.5	959.9	945.2	935.6	924.0
15°	1056.8	1028.6	1006.8	980.6	957.4	933.1	911.4	887.2	878.1	858.9	847.8
17.5°	1018.5	989.2	964.9	931.1	896.3	867.0	842.7	817.5	803.9	790.7	785.2
20°	980.6	954.3	917.0	876.1	836.2	802.8	784.2	769.0	753.9	745.3	739.2
22.5°	944.7	909.4	864.4	819.5	779.6	755.4	740.2	724.6	713.0	704.9	696.3
25°	903.8	859.9	814.0	763.5	736.2	713.5	696.3	683.7	676.1	665.5	661.5
27.5°	863.9	810.9	758.9	724.6	696.3	674.6	658.9	649.9	639.8	632.7	627.1
30°	816.5	762.5	717.0	684.7	655.9	638.7	626.6	615.5	607.9	602.4	598.3
32.5°	769.5	715.5	679.1	643.8	622.6	605.9	592.8	585.2	579.7	572.1	570.1
35°	724.6	676.6	643.3	612.0	588.8	573.6	563.5	554.9	549.9	547.9	546.3
37.5°	680.7	640.8	603.9	578.7	556.9	545.3	532.2	528.2	524.6	520.1	522.1
40°	639.2	602.4	570.6	543.3	526.6	513.5	506.4	501.4	498.4	498.4	498.4
42.5°	603.4	567.5	536.7	513.0	496.4	485.7	477.7	473.6	473.1	472.6	475.6
45°	566.0	532.7	501.4	481.2	467.1	456.0	451.4	447.9	447.9	449.9	450.4
47.5°	528.7	497.4	472.1	448.9	435.8	428.7	424.6	422.6	422.6	425.2	427.2
50°	494.8	464.0	439.3	419.1	407.0	400.4	396.9	395.9	396.9	396.9	400.4
52.5°	458.0	431.2	407.0	390.8	376.7	370.6	369.1	367.6	368.1	370.1	371.1
55°	422.1	397.4	374.2	358.0	347.9	343.9	339.3	339.8	338.8	339.8	339.8
57.5°	385.8	364.1	341.3	328.2	319.6	313.6	308.5	310.0	308.5	308.5	308.0
60°	350.9	326.7	309.5	297.9	287.8	282.8	278.2	279.2	277.7	276.7	274.7
62.5°	313.1	293.9	277.7	266.6	259.0	253.0	248.4	246.9	242.9	238.8	233.8
65°	276.7	260.0	245.4	234.8	227.2	222.7	219.1	216.1	208.5	200.5	196.4
67.5°	240.9	228.7	214.6	205.5	199.4	193.4	186.8	181.3	173.7	168.6	166.1
70°	206.5	194.9	183.3	174.7	168.1	162.6	155.0	151.5	146.4	144.4	141.9
72.5°	173.7	163.1	152.5	144.9	137.8	133.8	128.3	124.7	123.2	122.7	120.2
75°	140.4	131.8	123.7	116.6	111.1	108.1	105.5	103.0	102.0	97.5	94.9
77.5°	108.1	102.0	96.9	91.4	87.9	85.8	80.3	76.7	74.7	72.2	71.7
80°	79.8	75.7	70.7	67.7	62.1	60.1	58.1	57.6	57.1	56.6	56.0
82.5°	55.0	51.0	45.9	44.4	43.9	42.9	41.9	41.4	40.9	41.4	41.4
85°	30.3	28.3	28.3	27.8	27.3	26.8	26.3	26.3	25.8	26.3	25.8
87.5°	12.6	12.1	12.1	11.1	11.6	11.6	11.1	11.1	11.6	10.6	10.6
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: P242748

CATALOG NUMBER: S124RDRP-S795D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1253.2	1253.2	1253.2	1253.2
2.5°	1182.1	1183.1	1179.5	1178.5
5°	1109.8	1108.8	1106.3	1106.8
7.5°	1047.2	1043.7	1046.2	1042.2
10°	990.7	985.1	980.6	976.5
12.5°	913.4	908.9	902.3	904.8
15°	841.2	833.6	821.5	823.0
17.5°	776.6	777.6	770.5	772.5
20°	728.6	725.1	725.6	724.1
22.5°	695.3	690.7	686.2	682.7
25°	656.9	653.9	649.3	648.3
27.5°	623.1	622.6	620.6	618.0
30°	594.3	593.3	592.3	590.8
32.5°	568.6	568.1	567.0	567.5
35°	544.3	543.8	542.8	542.3
37.5°	521.6	523.1	522.1	522.1
40°	497.9	498.4	499.4	498.9
42.5°	478.2	478.2	479.7	477.7
45°	453.9	457.0	456.5	456.5
47.5°	428.2	431.7	432.2	432.2
50°	402.9	401.9	403.4	402.9
52.5°	372.1	372.6	372.1	371.6
55°	340.3	340.8	339.8	340.3
57.5°	306.5	304.5	306.0	305.0
60°	269.6	265.6	264.6	262.6
62.5°	228.2	225.7	221.7	224.2
65°	192.4	190.4	188.8	190.9
67.5°	163.6	162.6	162.6	161.6
70°	141.9	140.4	140.4	139.4
72.5°	119.7	118.2	118.7	118.2
75°	91.9	89.4	89.4	89.9
77.5°	71.7	71.2	72.2	70.7
80°	56.0	55.5	55.0	56.6
82.5°	40.4	40.4	40.4	42.4
85°	26.3	25.2	26.3	25.2
87.5°	11.6	11.1	10.6	11.1
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242748
 CATALOG NUMBER: S124RDRP-S795D840-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	17.48	19.00	17.84	19.31	19.63	19.29	20.82	19.66	21.13	21.45
	3H	18.70	20.07	19.08	20.40	20.76	20.75	22.11	21.13	22.44	22.80
	4H	19.14	20.42	19.54	20.77	21.14	21.26	22.54	21.66	22.89	23.27
	6H	19.41	20.59	19.82	20.96	21.35	21.62	22.80	22.03	23.17	23.56
	8H	19.49	20.62	19.92	21.01	21.41	21.72	22.84	22.15	23.23	23.64
	12H	19.54	20.62	19.97	21.00	21.43	21.78	22.86	22.21	23.24	23.67
4H	2H	18.74	20.02	19.14	20.37	20.74	19.80	21.08	20.20	21.43	21.81
	3H	19.97	21.03	20.38	21.43	21.84	21.54	22.61	21.95	23.01	23.41
	4H	20.44	21.39	20.87	21.81	22.25	22.17	23.13	22.60	23.54	23.98
	6H	20.76	21.59	21.22	22.03	22.49	22.63	23.46	23.08	23.90	24.36
	8H	20.85	21.63	21.32	22.07	22.54	22.76	23.54	23.23	23.98	24.45
	12H	20.92	21.62	21.41	22.09	22.57	22.85	23.55	23.34	24.02	24.50
8H	4H	20.84	21.61	21.30	22.06	22.53	22.28	23.06	22.75	23.50	23.97
	6H	21.23	21.87	21.72	22.36	22.83	22.83	23.47	23.32	23.96	24.43
	8H	21.36	21.94	21.87	22.44	22.93	23.02	23.59	23.53	24.10	24.59
	12H	21.47	21.98	21.98	22.47	23.04	23.16	23.67	23.67	24.16	24.73
12H	4H	20.87	21.57	21.36	22.05	22.52	22.27	22.96	22.75	23.44	23.91
	6H	21.27	21.85	21.79	22.36	22.85	22.81	23.39	23.33	23.90	24.39
	8H	21.45	21.96	21.96	22.45	23.02	23.04	23.55	23.55	24.04	24.61