

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: P242563

Luminaire Tested: S123RDRP-S1165D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242563
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDRP-S1165D927-X4F0-XX-UDD-A-W
Description: DEFINE 3 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

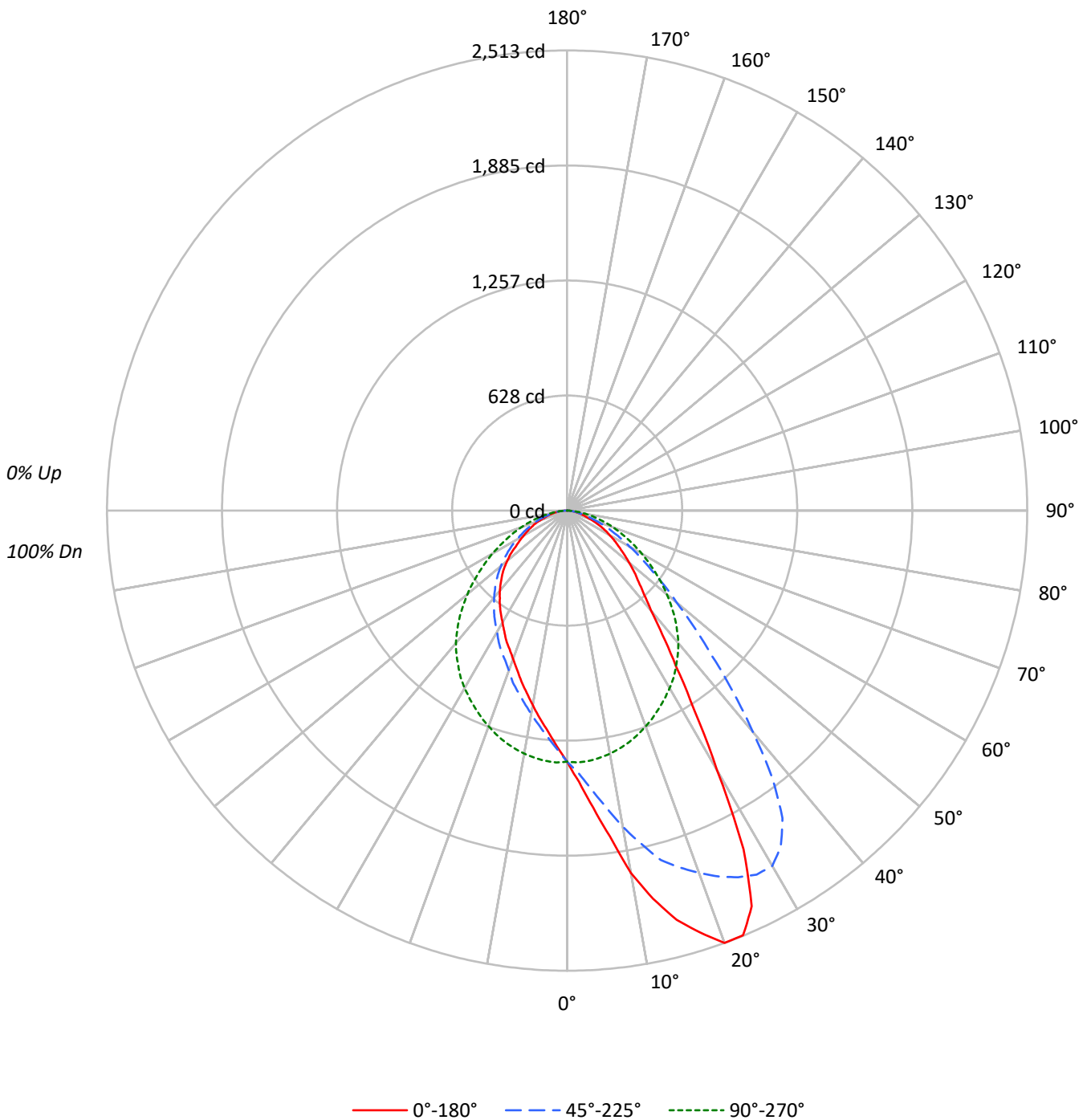
Lumens per Lamp: N/A
Luminaire Lumens: 3414.7 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.35
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

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

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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	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87					87			
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	74					74			
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64					64			
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	16622	16622	16622	16622	16622
5°	19815	18586	16693	15072	14700
10°	24741	21590	16598	13887	13281
15°	29039	24796	16428	12914	12111
20°	32410	27155	16174	12003	11116
25°	31892	29553	15907	11368	10506
30°	22925	31355	15661	10714	9876
35°	15306	30334	15340	10268	9469
40°	11277	25005	14954	9818	9048
45°	9459	19079	14279	9399	8634
50°	8346	14712	13394	8889	8060
55°	7320	11735	12382	8362	7270
60°	6519	9578	11413	7685	6659
65°	5725	7847	10371	7087	6195
70°	4494	6305	9445	6510	5660
75°	3957	4646	8247	5882	5170
80°	3441	3972	7008	5165	5082
85°	2782	3018	5633	5229	5382

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 26848 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.7	3.9
10°-20°	421.6	12.3
20°-30°	664.0	19.4
30°-40°	690.5	20.2
40°-50°	590.7	17.3
50°-60°	450.2	13.2
60°-70°	288.5	8.4
70°-80°	138.2	4.0
80°-90°	36.3	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°	1220.2	35.7
0°-40°	1910.7	56.0
0°-60°	2951.7	86.4
0°-90°	3414.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3414.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1371	1371	1371	1371	1371	
5°	1628	1528	1372	1239	1208	167
15°	2314	1976	1309	1029	965	657
25°	2385	2210	1189	850	786	1036
35°	1034	2050	1037	694	640	673
45°	552	1113	833	548	504	433
55°	346	555	586	396	344	313
65°	200	274	362	247	216	197
75°	84	99	176	126	110	90
85°	20	22	40	38	39	23
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°	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3
2.5°	1482.9	1485.2	1477.6	1476.4	1467.6	1465.3	1465.3	1452.9	1445.3	1435.3	1429.5
5°	1628.5	1637.9	1633.2	1622.6	1605.0	1600.9	1589.7	1572.1	1552.2	1527.5	1515.8
7.5°	1795.2	1814.6	1811.0	1794.6	1775.8	1764.1	1733.0	1707.7	1669.6	1634.9	1607.9
10°	2010.1	1996.6	1986.0	1970.1	1953.1	1925.5	1892.6	1847.4	1795.2	1754.1	1708.3
12.5°	2170.9	2171.5	2157.4	2141.0	2115.1	2089.3	2047.0	1989.5	1926.7	1862.7	1808.7
15°	2314.1	2317.7	2308.9	2291.8	2257.8	2211.4	2150.4	2127.5	2040.6	1976.0	1911.4
17.5°	2416.3	2416.9	2415.1	2392.2	2355.2	2323.5	2266.6	2213.2	2131.0	2043.5	1957.2
20°	2512.6	2506.7	2507.9	2481.5	2455.6	2417.5	2362.3	2274.8	2210.2	2105.2	2015.3
22.5°	2510.2	2510.2	2515.5	2510.8	2493.8	2466.8	2426.3	2355.8	2268.9	2162.7	2058.8
25°	2384.6	2379.9	2407.5	2415.1	2445.1	2450.3	2437.4	2396.9	2318.8	2209.7	2084.6
27.5°	2085.2	2068.2	2125.7	2182.7	2258.4	2306.5	2355.8	2367.0	2330.0	2240.8	2109.9
30°	1637.9	1693.1	1718.9	1811.6	1915.0	2038.2	2146.3	2249.0	2274.2	2240.2	2137.4
32.5°	1290.3	1336.7	1357.3	1433.6	1528.1	1677.8	1853.3	2009.5	2131.6	2172.7	2121.0
35°	1034.4	1035.0	1084.3	1119.5	1208.7	1357.3	1514.6	1709.5	1903.2	2050.0	2065.2
37.5°	853.6	855.9	887.6	922.8	994.5	1077.8	1224.0	1388.4	1621.4	1840.4	1954.3
40°	712.7	718.0	740.3	774.9	823.0	882.3	990.4	1143.0	1329.7	1580.3	1785.2
42.5°	622.3	631.7	640.5	665.1	690.4	745.0	827.2	936.3	1101.9	1335.5	1579.8
45°	551.8	556.5	565.3	577.7	604.7	643.4	702.1	781.4	922.3	1113.0	1349.6
47.5°	497.8	494.9	504.9	515.4	533.6	561.8	602.9	671.6	777.3	936.9	1141.8
50°	442.6	442.0	448.5	456.1	473.2	492.5	524.8	573.5	653.4	780.2	963.9
52.5°	391.0	393.9	398.0	408.0	419.2	433.8	462.0	493.7	559.5	664.5	810.1
55°	346.4	348.1	354.6	359.9	368.7	384.5	402.7	432.1	479.0	555.3	681.6
57.5°	307.6	307.0	313.5	314.1	325.2	338.7	353.4	376.3	412.1	472.6	560.6
60°	268.9	267.1	272.4	276.5	281.8	292.4	304.1	326.4	353.4	395.1	467.9
62.5°	233.6	233.1	236.6	240.7	244.8	254.2	263.6	279.4	299.4	332.9	386.9
65°	199.6	201.4	203.1	204.9	207.2	213.1	222.5	234.2	248.9	273.6	315.2
67.5°	164.4	166.7	167.3	171.4	176.1	179.1	184.3	195.5	206.6	228.9	253.6
70°	126.8	126.2	126.8	128.6	135.0	141.5	149.1	156.7	163.2	177.9	197.8
72.5°	104.5	103.3	105.1	105.1	107.4	108.0	112.1	119.2	128.0	136.8	149.7
75°	84.5	84.5	84.5	84.5	86.9	88.1	89.8	91.6	94.5	99.2	109.8
77.5°	65.7	65.7	66.9	67.5	68.1	68.7	69.9	71.6	72.8	75.1	80.4
80°	49.3	49.9	49.3	49.9	49.9	51.1	51.7	53.4	54.0	56.9	58.7
82.5°	34.0	33.5	34.0	34.6	34.6	35.8	35.8	37.0	37.0	38.2	39.9
85°	20.0	18.8	20.0	19.4	20.5	19.4	20.0	21.1	21.1	21.7	24.1
87.5°	5.9	7.0	5.9	6.5	6.5	7.0	7.0	7.0	8.2	7.6	8.2
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°	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3
2.5°	1427.1	1425.4	1417.1	1407.7	1395.4	1387.2	1380.7	1377.2	1366.7	1353.7	1344.9
5°	1503.4	1485.8	1467.0	1444.1	1423.0	1401.3	1387.8	1371.9	1352.6	1330.8	1315.6
7.5°	1579.2	1548.6	1515.2	1480.5	1445.3	1414.2	1385.4	1362.0	1332.6	1302.7	1282.1
10°	1669.0	1618.5	1566.2	1512.8	1464.1	1418.3	1383.1	1348.5	1311.5	1275.7	1248.7
12.5°	1750.6	1680.1	1617.9	1549.2	1483.5	1426.5	1371.9	1329.7	1283.3	1244.5	1212.8
15°	1816.9	1748.8	1676.0	1576.2	1493.5	1424.2	1362.5	1309.1	1255.1	1208.1	1178.2
17.5°	1886.2	1782.9	1687.2	1609.7	1501.7	1417.7	1345.5	1283.3	1224.6	1176.4	1138.9
20°	1926.1	1826.9	1720.6	1614.4	1508.7	1411.9	1324.4	1253.9	1192.3	1135.9	1101.9
22.5°	1950.2	1834.5	1721.2	1605.0	1491.1	1389.5	1303.2	1224.0	1155.9	1103.1	1059.0
25°	1967.8	1833.9	1710.7	1597.9	1483.5	1374.3	1271.5	1189.4	1117.2	1060.2	1015.6
27.5°	1981.9	1826.9	1685.4	1562.7	1447.1	1336.1	1243.4	1155.3	1083.1	1023.8	975.1
30°	1985.4	1818.1	1655.5	1519.9	1401.9	1302.1	1202.3	1118.9	1041.4	977.4	932.8
32.5°	1990.1	1796.4	1615.0	1468.8	1347.3	1248.7	1160.6	1081.9	1002.1	939.3	893.5
35°	1973.7	1791.1	1573.9	1408.3	1287.4	1191.7	1110.1	1036.7	958.7	897.6	851.2
37.5°	1923.8	1762.3	1532.8	1340.8	1215.8	1127.7	1059.6	992.7	920.5	853.6	810.7
40°	1839.8	1715.4	1483.5	1280.4	1148.3	1057.3	997.4	945.1	875.9	814.2	767.3
42.5°	1714.8	1651.4	1436.5	1217.0	1072.0	985.1	936.9	888.8	830.1	767.3	723.8
45°	1556.3	1566.2	1369.0	1148.9	1002.7	914.6	867.1	833.0	779.0	727.4	682.2
47.5°	1363.7	1447.1	1296.8	1077.2	927.5	844.8	803.1	772.0	734.4	681.0	639.3
50°	1175.9	1309.1	1206.4	1005.0	857.7	775.5	734.4	710.3	678.6	638.7	599.4
52.5°	1002.7	1148.3	1097.2	924.6	781.9	708.6	668.6	649.9	626.4	589.4	554.8
55°	845.9	990.9	976.9	843.6	706.2	638.7	608.2	585.9	568.9	540.7	512.5
57.5°	709.7	850.0	853.0	753.8	640.5	571.8	545.4	527.8	516.0	493.7	466.1
60°	582.4	708.6	733.2	662.8	568.9	510.1	484.3	470.8	462.0	445.0	425.0
62.5°	476.7	579.4	608.2	562.4	500.2	446.2	427.4	414.5	409.2	395.1	378.1
65°	381.0	470.2	497.2	469.1	433.2	389.2	372.8	361.6	356.3	348.1	335.2
67.5°	300.6	369.8	399.2	375.7	362.2	331.1	319.9	313.5	308.8	302.9	291.8
70°	230.1	278.3	308.8	303.5	292.9	278.3	270.6	266.5	261.8	257.1	247.7
72.5°	173.8	203.1	231.3	236.0	227.8	227.8	221.3	220.1	217.8	211.9	207.8
75°	122.7	145.6	165.5	173.2	176.7	179.6	176.7	176.1	175.5	170.8	167.9
77.5°	85.1	99.8	113.3	126.8	131.5	135.6	136.2	138.5	136.8	133.8	132.7
80°	61.6	64.6	73.4	84.5	93.3	96.9	99.2	100.4	99.8	99.2	96.9
82.5°	40.5	42.9	45.8	52.8	59.9	66.3	67.5	66.9	68.7	69.3	67.5
85°	24.1	24.7	25.8	27.0	31.1	37.6	39.3	40.5	41.7	41.7	38.2
87.5°	9.4	8.8	10.0	10.0	11.7	12.3	15.9	18.8	19.4	17.0	17.0
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°	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3	1371.3
2.5°	1342.0	1334.4	1329.1	1317.3	1309.7	1301.5	1293.3	1298.6	1298.0	1297.4	1297.4
5°	1302.7	1289.2	1276.8	1261.0	1251.0	1238.7	1229.3	1228.1	1230.5	1222.2	1217.5
7.5°	1265.7	1248.1	1230.5	1214.0	1195.8	1181.7	1172.9	1169.4	1162.9	1157.7	1153.0
10°	1226.3	1204.6	1187.6	1165.9	1145.9	1128.3	1117.2	1109.5	1105.4	1101.3	1093.7
12.5°	1185.8	1164.7	1141.8	1116.6	1097.8	1076.6	1069.0	1060.2	1051.4	1046.7	1035.6
15°	1146.5	1118.9	1096.0	1070.2	1049.1	1029.1	1017.4	1000.3	998.0	992.1	981.5
17.5°	1108.3	1077.8	1044.4	1026.7	1005.6	984.5	965.7	960.4	942.8	936.9	927.0
20°	1061.4	1033.8	1009.7	984.5	949.8	930.5	916.4	908.8	895.3	887.0	881.2
22.5°	1020.9	992.7	963.9	933.4	906.4	884.1	874.7	861.8	855.9	843.6	837.1
25°	982.7	952.2	918.7	887.0	866.5	850.0	833.6	823.0	812.5	807.2	795.5
27.5°	936.3	905.8	873.5	848.9	825.4	809.0	793.1	784.3	770.8	762.0	755.5
30°	899.4	861.8	834.8	813.1	780.8	765.5	754.4	742.6	733.2	723.8	717.4
32.5°	856.5	823.0	797.8	769.6	746.7	729.7	714.4	704.5	696.8	688.0	681.6
35°	811.3	782.5	756.1	729.1	710.9	693.9	676.9	668.1	660.4	652.2	646.3
37.5°	770.2	743.2	718.5	692.7	670.4	655.7	641.6	635.8	625.2	619.3	613.5
40°	732.6	706.2	679.2	654.6	631.1	620.5	608.2	598.2	588.8	584.7	578.2
42.5°	691.5	665.1	643.4	616.4	598.2	582.9	571.8	560.6	554.2	547.7	544.8
45°	651.0	627.6	605.2	578.8	560.6	548.3	535.4	525.4	519.0	514.8	508.4
47.5°	612.3	588.2	565.9	542.4	524.8	510.7	497.2	490.8	482.0	477.3	472.6
50°	569.4	548.3	524.2	503.1	485.5	471.4	460.8	452.0	444.4	437.9	435.0
52.5°	530.1	507.2	487.3	467.9	449.1	432.7	423.3	413.9	408.6	401.0	397.4
55°	486.1	464.4	446.7	427.4	409.2	395.7	383.9	375.7	369.8	361.6	356.9
57.5°	445.6	426.8	405.1	388.0	368.7	358.1	348.1	336.4	329.3	322.9	318.2
60°	404.5	382.2	364.0	348.1	331.7	317.0	308.2	299.4	291.8	285.3	281.2
62.5°	361.6	342.8	325.8	308.2	293.5	281.2	270.6	263.6	257.1	253.6	249.5
65°	317.6	302.3	284.7	270.6	256.5	247.1	238.9	232.5	227.8	224.8	221.3
67.5°	277.1	262.4	246.6	231.9	222.5	214.9	209.0	203.1	200.8	197.2	194.9
70°	237.8	222.5	209.0	198.4	189.0	183.7	180.2	176.1	173.8	169.1	166.7
72.5°	194.9	184.9	176.1	167.9	160.9	156.2	151.5	146.2	142.1	136.8	134.4
75°	160.3	150.3	142.7	136.8	132.1	125.6	119.2	113.9	112.1	110.4	109.8
77.5°	125.0	118.6	112.7	108.0	101.6	95.7	93.9	92.8	92.2	91.0	91.0
80°	93.3	87.5	83.4	77.5	74.0	74.0	74.0	72.8	73.4	73.4	73.4
82.5°	63.4	58.1	56.4	55.2	55.2	55.8	55.8	56.4	55.8	56.9	56.4
85°	35.8	36.4	37.6	37.0	37.6	37.6	38.7	38.2	38.7	37.6	38.7
87.5°	16.4	18.2	18.8	19.4	20.0	19.4	20.0	20.0	20.5	20.5	20.5
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: P242563

CATALOG NUMBER: S123RDRP-S1165D927-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1371.3	1371.3	1371.3	1371.3
2.5°	1290.3	1289.7	1290.3	1288.0
5°	1215.8	1215.2	1213.4	1208.1
7.5°	1148.3	1147.1	1142.4	1143.6
10°	1089.6	1090.2	1083.1	1079.0
12.5°	1032.6	1029.1	1023.8	1019.1
15°	983.9	978.0	963.9	965.1
17.5°	923.4	918.7	918.1	909.9
20°	871.8	868.8	870.0	861.8
22.5°	831.3	828.3	821.9	820.7
25°	791.9	787.2	782.5	785.5
27.5°	752.0	748.5	743.2	743.2
30°	714.4	710.9	708.6	705.6
32.5°	676.3	676.3	671.6	671.6
35°	644.0	640.5	639.3	639.9
37.5°	612.9	608.2	605.8	603.5
40°	578.8	574.1	573.0	571.8
42.5°	540.7	539.5	538.9	536.6
45°	506.6	506.0	502.5	503.7
47.5°	470.2	467.3	465.5	467.3
50°	432.7	431.5	426.2	427.4
52.5°	395.1	389.8	388.6	387.5
55°	352.8	347.5	345.2	344.0
57.5°	311.1	309.4	307.0	308.8
60°	275.3	275.3	275.3	274.7
62.5°	247.7	246.0	245.4	246.6
65°	219.6	219.0	216.6	216.0
67.5°	193.7	191.4	191.4	190.2
70°	163.8	162.6	159.1	159.7
72.5°	131.5	130.3	130.3	129.2
75°	109.2	108.6	108.0	110.4
77.5°	91.0	91.0	91.6	90.4
80°	73.4	73.4	72.8	72.8
82.5°	55.2	55.8	56.4	55.2
85°	38.7	38.2	39.3	38.7
87.5°	21.7	20.5	20.5	21.1
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P242563
 CATALOG NUMBER: S123RDRP-S1165D927-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	17.40	18.90	17.77	19.21	19.52	20.80	22.29	21.17	22.61	22.92
	3H	18.50	19.83	18.87	20.16	20.52	22.21	23.55	22.59	23.87	24.24
	4H	18.83	20.08	19.23	20.43	20.81	22.71	23.96	23.11	24.31	24.69
	6H	19.08	20.23	19.49	20.60	20.99	23.06	24.22	23.47	24.58	24.98
	8H	19.15	20.25	19.57	20.64	21.04	23.16	24.26	23.59	24.65	25.05
	12H	19.18	20.24	19.61	20.62	21.05	23.22	24.28	23.65	24.66	25.09
4H	2H	18.38	19.64	18.78	19.98	20.36	21.04	22.29	21.44	22.64	23.02
	3H	19.55	20.59	19.96	20.99	21.39	22.73	23.77	23.14	24.17	24.57
	4H	19.94	20.87	20.37	21.29	21.73	23.35	24.28	23.78	24.69	25.13
	6H	20.25	21.06	20.71	21.50	21.96	23.81	24.62	24.27	25.06	25.53
	8H	20.34	21.10	20.80	21.54	22.01	23.95	24.71	24.42	25.16	25.62
	12H	20.40	21.07	20.88	21.55	22.02	24.05	24.73	24.54	25.21	25.68
8H	4H	20.31	21.06	20.77	21.51	21.97	23.40	24.15	23.86	24.60	25.07
	6H	20.68	21.30	21.18	21.80	22.27	23.93	24.56	24.43	25.05	25.53
	8H	20.81	21.37	21.33	21.88	22.37	24.13	24.69	24.64	25.20	25.69
	12H	20.91	21.41	21.42	21.90	22.46	24.28	24.78	24.79	25.27	25.84
12H	4H	20.34	21.01	20.82	21.49	21.96	23.38	24.06	23.87	24.54	25.01
	6H	20.72	21.28	21.24	21.79	22.28	23.92	24.48	24.44	24.99	25.48
	8H	20.90	21.39	21.41	21.89	22.45	24.15	24.65	24.66	25.14	25.71