

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: P243436

Luminaire Tested: S123RDRP-H775D840-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243436
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-69)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDRP-H775D840-X4F0-XX-UDD-A-W
Description: DEFINE 3 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

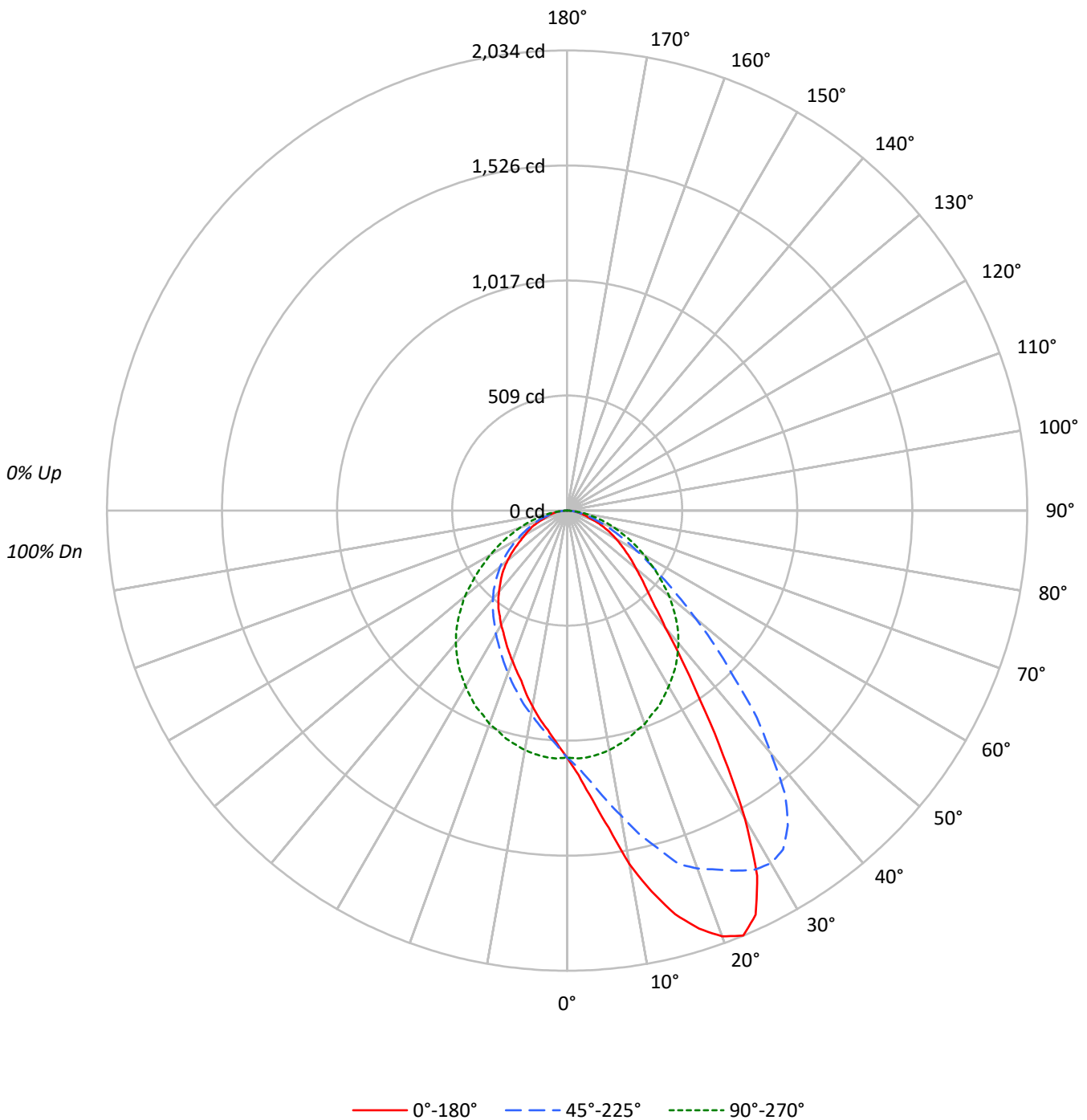
Lumens per Lamp: N/A
Luminaire Lumens: 2844.9 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.22 / 1.4
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

Input Watts (W): 23.6
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	107	104	100	97	99	97	94	96	93	91	92	90	89	87					87			
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56					56			
5	79	68	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49					49			
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44					44			
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39					39			
8	64	51	43	38	62	51	43	37	49	42	37	48	42	37	47	41	37	35					35			
9	60	47	39	34	59	47	39	34	45	39	34	44	38	34	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	13234	13234	13234	13234	13234
5°	15602	14645	13308	12097	11851
10°	19531	16839	13230	11245	10815
15°	23179	19374	13097	10518	9797
20°	25832	21716	12940	9869	9121
25°	26367	23487	12780	9280	8588
30°	21973	25199	12563	8822	8168
35°	15179	25161	12390	8412	7826
40°	10666	22154	12106	8071	7415
45°	8566	17843	11677	7709	7015
50°	7467	13966	11122	7281	6489
55°	6695	10780	10292	6805	5778
60°	6058	8582	9508	6172	5234
65°	5300	7044	8762	5584	4896
70°	4278	5731	7885	5128	4143
75°	3709	4505	6866	4327	4060
80°	3420	3686	5857	4146	4083
85°	3018	3143	4715	3741	3546

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 22360 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.1	3.8
10°-20°	337.2	11.9
20°-30°	540.3	19.0
30°-40°	586.5	20.6
40°-50°	502.5	17.7
50°-60°	380.9	13.4
60°-70°	243.4	8.6
70°-80°	116.4	4.1
80°-90°	30.6	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°	984.6	34.6
0°-40°	1571.1	55.2
0°-60°	2454.5	86.3
0°-90°	2844.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2844.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1092	1092	1092	1092	1092	
5°	1282	1204	1094	994	974	132
15°	1847	1544	1044	838	781	524
25°	1972	1756	956	694	642	875
35°	1026	1700	837	568	529	659
45°	500	1041	681	450	409	395
55°	317	510	487	322	273	286
65°	185	246	306	195	171	184
75°	79	96	147	92	87	86
85°	22	23	34	27	26	25
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°	1091.8	1091.8	1091.8	1091.8	1091.8	1091.8	1091.8	1091.8	1091.8	1091.8	1091.8
2.5°	1170.1	1171.5	1169.1	1168.7	1168.2	1160.7	1158.3	1154.5	1141.3	1138.0	1135.7
5°	1282.3	1278.5	1282.8	1274.7	1265.8	1260.6	1252.1	1233.3	1216.8	1203.6	1195.1
7.5°	1415.2	1416.6	1412.4	1404.9	1386.9	1379.4	1356.3	1333.7	1312.0	1284.6	1264.4
10°	1586.8	1575.5	1577.9	1554.3	1535.4	1512.8	1481.2	1444.9	1406.7	1368.1	1339.3
12.5°	1723.5	1731.6	1725.9	1714.6	1678.3	1656.1	1627.4	1574.6	1514.2	1462.4	1418.5
15°	1847.1	1836.2	1837.6	1810.3	1797.1	1776.8	1729.2	1676.9	1637.7	1543.9	1492.1
17.5°	1937.6	1936.6	1935.2	1912.1	1896.1	1853.7	1805.1	1751.4	1702.3	1637.3	1572.2
20°	2002.6	2009.7	2007.8	1989.0	1960.7	1919.7	1890.4	1823.5	1742.9	1683.5	1603.8
22.5°	2033.7	2034.2	2035.2	2026.2	2007.3	1980.9	1939.5	1885.7	1814.1	1716.9	1628.3
25°	1971.5	1973.9	1986.1	1993.7	1998.9	1987.1	1965.4	1916.8	1855.1	1756.1	1664.1
27.5°	1818.8	1826.3	1840.0	1885.2	1903.6	1929.1	1938.0	1918.7	1873.0	1790.5	1685.8
30°	1569.9	1591.1	1604.3	1655.7	1727.8	1795.7	1827.7	1859.3	1855.1	1800.4	1694.3
32.5°	1285.1	1298.8	1337.0	1392.1	1449.2	1548.6	1659.9	1736.3	1779.2	1776.3	1701.4
35°	1025.8	1045.6	1078.2	1120.1	1198.8	1302.1	1428.0	1548.2	1655.7	1700.4	1673.6
37.5°	832.5	834.4	865.1	924.5	973.5	1064.5	1178.1	1326.6	1467.6	1584.5	1610.4
40°	674.1	687.3	703.4	740.6	798.6	885.8	961.2	1107.4	1253.5	1400.1	1504.8
42.5°	574.2	574.2	592.1	615.7	654.3	706.7	796.7	929.2	1060.7	1240.8	1358.7
45°	499.7	504.4	512.4	527.5	554.9	595.4	665.2	755.2	889.6	1040.9	1218.2
47.5°	446.0	445.5	452.6	461.5	482.7	513.4	554.4	627.5	726.9	890.1	1046.6
50°	396.0	397.9	403.1	410.6	424.8	446.4	472.4	527.5	611.4	740.6	904.7
52.5°	357.3	356.9	361.1	365.8	376.7	388.9	412.0	453.0	511.0	613.8	750.0
55°	316.8	318.7	323.9	326.7	335.7	343.7	363.0	386.1	432.8	510.1	634.1
57.5°	281.9	284.3	287.1	289.9	296.1	304.1	320.1	334.2	368.2	423.8	522.8
60°	249.9	248.9	252.2	256.9	260.2	267.3	276.3	290.9	314.4	354.0	426.6
62.5°	217.8	218.3	218.7	221.6	227.7	233.8	241.8	252.7	266.8	296.1	347.4
65°	184.8	185.3	186.2	189.0	195.2	198.9	207.4	216.9	228.2	245.6	281.4
67.5°	155.6	157.5	157.5	159.8	162.2	165.9	172.1	179.1	188.6	201.3	224.4
70°	120.7	120.2	122.6	127.3	129.6	136.2	140.5	145.2	153.7	161.7	181.5
72.5°	97.1	97.1	97.1	99.0	99.5	100.9	103.7	113.6	120.2	128.2	139.1
75°	79.2	79.7	79.7	80.1	80.6	82.0	83.0	85.8	87.7	96.2	102.8
77.5°	63.2	63.6	63.6	64.1	64.6	65.1	66.9	66.9	68.4	70.2	73.1
80°	49.0	48.6	48.6	49.0	49.0	50.4	50.4	51.4	51.9	52.8	54.2
82.5°	34.9	34.4	34.9	34.4	34.9	35.4	36.3	35.8	36.8	37.7	38.2
85°	21.7	22.2	22.2	23.1	22.6	22.2	22.6	22.6	22.6	22.6	23.6
87.5°	9.4	10.4	10.4	9.9	10.4	10.4	9.4	10.4	10.4	10.4	10.8
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°	1091.8	1091.8	1091.8	1091.8	1091.8	1091.8	1091.8	1091.8	1091.8	1091.8	1091.8
2.5°	1134.3	1132.4	1125.3	1118.7	1108.8	1104.6	1098.9	1096.5	1089.0	1078.6	1073.9
5°	1187.1	1172.9	1159.2	1142.7	1129.1	1113.0	1104.1	1093.7	1077.7	1063.1	1052.7
7.5°	1243.2	1222.4	1197.0	1169.6	1145.1	1122.0	1102.2	1085.7	1065.0	1044.7	1028.7
10°	1304.9	1269.6	1228.5	1193.7	1158.3	1124.8	1099.8	1074.9	1048.0	1022.5	1003.2
12.5°	1371.4	1321.4	1271.9	1219.6	1166.8	1128.1	1090.9	1058.8	1028.7	1001.8	978.7
15°	1440.2	1371.9	1308.7	1249.8	1176.2	1124.4	1083.3	1043.7	1006.0	973.0	950.4
17.5°	1489.2	1411.0	1331.3	1247.9	1184.7	1120.6	1069.7	1019.7	984.8	950.9	920.2
20°	1534.5	1445.9	1351.1	1273.3	1185.2	1106.9	1051.3	1003.2	954.6	918.3	892.4
22.5°	1553.8	1473.7	1378.0	1270.0	1181.9	1101.7	1030.1	975.9	932.5	892.9	858.9
25°	1557.6	1468.0	1370.0	1265.8	1169.1	1082.4	1009.8	955.6	899.0	858.0	831.6
27.5°	1574.1	1451.5	1355.4	1251.6	1153.6	1063.1	986.7	926.4	873.6	829.7	795.8
30°	1578.3	1444.5	1324.2	1225.2	1124.4	1035.7	958.4	897.6	840.1	795.3	764.7
32.5°	1580.2	1435.0	1291.7	1183.3	1087.1	1003.7	933.0	867.0	812.3	765.1	733.5
35°	1573.6	1421.8	1252.6	1135.7	1043.3	961.2	895.7	837.3	776.4	732.1	698.7
37.5°	1547.7	1401.1	1230.4	1080.0	991.9	914.6	858.9	801.4	745.3	697.2	662.8
40°	1498.7	1370.9	1188.9	1033.4	933.4	864.1	812.3	765.1	708.6	662.4	628.4
42.5°	1420.4	1329.9	1150.8	980.6	875.4	809.9	766.5	726.0	675.1	631.2	594.0
45°	1304.4	1272.4	1099.8	926.8	812.3	750.5	712.8	681.2	635.0	594.9	560.5
47.5°	1179.0	1186.1	1048.5	872.1	754.8	695.8	662.8	635.0	600.1	557.2	525.6
50°	1034.3	1073.0	976.3	817.0	697.2	639.3	606.7	589.8	557.2	521.4	491.7
52.5°	901.8	963.1	903.3	756.6	640.7	583.6	553.5	536.5	514.8	485.1	454.9
55°	764.7	842.4	799.1	691.6	583.2	525.6	500.2	487.0	469.1	446.0	418.6
57.5°	651.0	734.0	706.7	623.2	527.1	475.2	452.6	437.5	426.6	405.4	383.3
60°	539.8	616.6	605.8	544.5	471.4	421.9	404.5	392.2	383.3	367.7	346.0
62.5°	435.6	510.1	516.7	468.6	417.2	372.4	356.4	347.9	340.8	328.6	308.8
65°	345.6	411.1	424.8	388.0	360.2	326.2	310.7	305.5	300.3	286.2	271.1
67.5°	270.6	322.0	339.9	319.2	299.4	279.6	267.3	260.2	256.5	248.0	237.6
70°	207.0	251.3	266.4	257.4	244.2	236.7	227.2	222.5	218.7	207.9	202.2
72.5°	155.1	185.3	204.1	201.3	198.5	193.3	187.6	186.2	180.6	173.5	168.3
75°	113.6	131.1	148.0	154.2	153.2	155.1	149.0	146.6	143.3	138.1	133.9
77.5°	81.6	91.9	103.7	111.3	115.0	115.5	115.5	114.1	111.7	108.0	104.7
80°	56.6	58.9	69.8	76.8	80.6	83.4	83.4	83.9	81.6	80.1	77.8
82.5°	39.1	40.5	42.9	48.6	53.3	56.6	57.0	56.6	55.6	55.2	51.9
85°	24.5	24.0	24.0	25.5	29.2	32.5	33.0	33.9	33.5	33.0	29.7
87.5°	10.4	10.4	10.8	10.4	11.8	12.3	13.2	15.6	15.1	12.7	11.8
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°	1091.8	1091.8	1091.8	1091.8	1091.8	1091.8	1091.8	1091.8	1091.8	1091.8	1091.8
2.5°	1071.1	1065.0	1059.3	1053.2	1045.6	1038.6	1037.6	1036.7	1039.0	1034.3	1032.4
5°	1044.7	1032.9	1023.9	1012.6	1004.6	994.2	988.6	987.2	986.7	983.9	980.1
7.5°	1015.9	1003.2	990.5	977.7	964.5	953.7	947.6	944.3	941.4	936.7	933.0
10°	989.1	973.0	959.4	941.9	927.8	913.6	908.0	903.3	900.4	893.8	888.6
12.5°	958.9	938.6	923.5	904.7	891.9	879.7	870.7	861.8	855.2	845.3	841.0
15°	932.5	911.3	885.8	874.5	856.6	838.2	828.3	828.3	814.6	806.6	801.4
17.5°	897.1	878.7	860.8	837.7	812.3	801.4	790.1	780.2	770.8	768.4	759.0
20°	866.0	844.3	825.9	801.0	777.9	765.1	751.9	741.1	734.0	727.4	722.2
22.5°	835.4	813.7	785.4	760.9	745.3	728.4	714.2	704.8	698.7	688.8	684.0
25°	803.3	777.4	751.9	727.9	708.6	693.9	679.3	674.1	663.3	658.1	651.5
27.5°	771.3	740.1	716.1	695.4	673.7	659.5	649.6	640.2	630.8	627.9	624.2
30°	735.4	706.7	683.6	663.3	642.6	630.3	618.5	610.0	602.0	595.9	591.6
32.5°	699.6	675.6	653.4	629.8	611.0	597.8	587.9	580.3	576.6	566.2	562.4
35°	666.6	642.1	618.5	596.4	581.3	568.5	559.6	552.5	544.5	537.9	534.1
37.5°	632.7	610.5	586.5	567.6	550.6	540.3	530.4	520.9	514.8	511.0	506.3
40°	599.7	576.1	557.7	537.0	521.9	510.1	499.7	492.6	485.1	481.8	475.7
42.5°	568.5	545.9	524.7	505.8	492.2	480.9	471.0	462.9	456.8	450.7	447.4
45°	532.7	512.9	493.6	474.7	462.0	449.7	438.9	431.8	423.3	418.2	416.3
47.5°	502.5	481.8	461.1	443.6	430.4	417.2	408.3	399.8	392.7	387.5	384.7
50°	466.7	447.4	430.4	413.0	400.2	386.1	375.3	367.2	359.2	355.5	350.7
52.5°	436.1	417.2	396.5	380.9	366.3	354.0	344.1	337.5	330.5	324.8	321.5
55°	397.9	379.5	363.0	346.5	331.9	322.0	314.0	302.7	296.5	290.9	281.9
57.5°	364.4	347.0	329.5	313.5	299.8	288.0	278.1	270.6	262.6	258.3	252.2
60°	329.1	310.7	294.6	282.4	267.3	254.6	248.0	239.0	232.4	225.8	223.9
62.5°	294.2	277.2	261.2	248.4	234.8	224.9	216.4	212.1	205.5	200.4	198.5
65°	257.9	243.7	228.6	214.5	206.0	194.7	190.0	182.9	179.1	176.8	176.3
67.5°	222.0	209.3	195.6	184.8	176.8	169.2	163.6	160.8	157.0	154.2	151.8
70°	189.5	177.3	165.5	156.5	150.4	144.7	141.0	135.8	132.0	128.2	123.0
72.5°	157.5	147.6	137.7	130.6	124.5	121.2	116.0	108.0	104.2	103.2	102.8
75°	127.8	116.9	109.8	106.1	100.4	92.4	89.1	88.2	87.7	86.7	86.7
77.5°	98.5	91.9	87.2	79.2	76.4	75.9	73.5	73.1	72.1	72.6	72.6
80°	71.7	67.9	62.2	59.9	58.9	59.4	58.5	58.9	58.0	58.5	57.5
82.5°	47.6	44.3	45.3	43.8	43.8	44.8	44.3	42.9	42.9	42.4	42.4
85°	28.3	27.8	28.8	28.8	28.3	26.9	27.8	27.3	25.9	26.4	26.4
87.5°	12.3	12.3	12.3	11.8	12.3	11.8	11.8	11.8	10.4	10.4	10.4
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: P243436

CATALOG NUMBER: S123RDRP-H775D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1091.8	1091.8	1091.8	1091.8
2.5°	1033.4	1032.4	1031.0	1029.6
5°	980.1	975.9	975.4	974.0
7.5°	930.1	928.2	924.9	928.7
10°	884.4	885.8	882.5	878.7
12.5°	836.8	834.0	828.8	831.6
15°	794.8	790.1	787.3	780.7
17.5°	751.0	747.2	747.2	743.0
20°	712.8	709.0	710.0	707.1
22.5°	680.7	677.9	673.7	674.1
25°	650.6	646.3	641.6	642.1
27.5°	617.1	613.3	612.4	609.1
30°	587.4	584.1	583.6	583.6
32.5°	558.6	557.2	554.9	553.5
35°	533.7	531.8	528.0	528.9
37.5°	502.5	500.7	500.2	499.7
40°	473.3	471.9	468.1	468.6
42.5°	444.1	441.7	439.4	438.4
45°	412.5	412.0	408.3	409.2
47.5°	382.3	381.4	379.5	377.1
50°	348.9	348.4	347.0	344.1
52.5°	316.3	314.9	312.1	309.3
55°	279.6	275.3	275.8	273.4
57.5°	249.4	247.5	243.7	242.3
60°	220.2	218.3	217.8	215.9
62.5°	195.6	193.8	192.3	192.3
65°	173.5	171.1	170.7	170.7
67.5°	149.0	146.6	146.1	145.2
70°	118.3	117.9	116.9	116.9
72.5°	101.8	101.4	101.8	99.9
75°	86.7	86.3	86.3	86.7
77.5°	72.1	72.1	71.7	71.7
80°	57.0	57.5	57.0	58.5
82.5°	42.9	42.0	42.4	41.5
85°	26.4	26.4	25.5	25.5
87.5°	10.4	10.4	10.4	10.4
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243436
 CATALOG NUMBER: S123RDRP-H775D840-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	17.36	18.86	17.73	19.18	19.49	20.06	21.56	20.43	21.88	22.19
	3H	18.55	19.89	18.93	20.22	20.58	21.49	22.83	21.86	23.16	23.52
	4H	18.90	20.16	19.30	20.51	20.89	21.99	23.25	22.39	23.60	23.98
	6H	19.18	20.34	19.59	20.71	21.10	22.34	23.50	22.75	23.87	24.26
	8H	19.27	20.37	19.69	20.76	21.16	22.44	23.54	22.86	23.93	24.33
	12H	19.33	20.39	19.76	20.77	21.20	22.50	23.55	22.93	23.94	24.37
4H	2H	18.31	19.57	18.71	19.92	20.30	20.34	21.60	20.74	21.95	22.33
	3H	19.58	20.62	19.99	21.02	21.43	22.06	23.10	22.47	23.50	23.90
	4H	19.99	20.93	20.42	21.34	21.78	22.67	23.61	23.10	24.03	24.47
	6H	20.33	21.15	20.79	21.59	22.05	23.13	23.94	23.59	24.39	24.85
	8H	20.45	21.21	20.91	21.65	22.12	23.27	24.03	23.73	24.47	24.94
	12H	20.54	21.22	21.02	21.70	22.17	23.36	24.04	23.84	24.52	24.99
8H	4H	20.35	21.11	20.81	21.55	22.02	22.73	23.49	23.20	23.94	24.40
	6H	20.77	21.40	21.27	21.89	22.37	23.26	23.89	23.76	24.38	24.86
	8H	20.93	21.50	21.45	22.01	22.49	23.45	24.01	23.96	24.52	25.01
	12H	21.08	21.58	21.59	22.07	22.63	23.60	24.10	24.11	24.59	25.16
12H	4H	20.38	21.06	20.86	21.54	22.01	22.72	23.40	23.20	23.88	24.35
	6H	20.81	21.38	21.33	21.89	22.38	23.25	23.81	23.77	24.33	24.81
	8H	21.02	21.52	21.53	22.02	22.58	23.48	23.98	23.99	24.47	25.04