

LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P832457

Luminaire Tested: S123RDP-S1165D950-4F0-1E-UDD-G

Issue Date: 05/03/2024

Tested By:

Approved By:



NVLAP Lab Code: 200050-0

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**Test Information**

Test Method: LM-79-2019  
 Report Number: P832457  
 Test Lab: INNOVATION CENTER  
 Issue Date: 05/03/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: NEO-RAY  
 Catalog Number: S123RDP-S1165D950-4F0-1E-UDD-G  
 Description: DEFINE 3 DIRECT PENDANT LED LUMINAIRE  
 DOWNLIGHT 1165 LUMENS PER FOOT, GRAZE OPTIC

Light Source: -  
 Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
 Luminaire Lumens: 4740.4 lumens  
 Efficiency: N/A  
 Efficacy: 112.3 lumens/watt  
 Spacing Criteria (0/90/45): 0.55 / 1.17 / 0.8  
 Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
 CIE Type: Direct

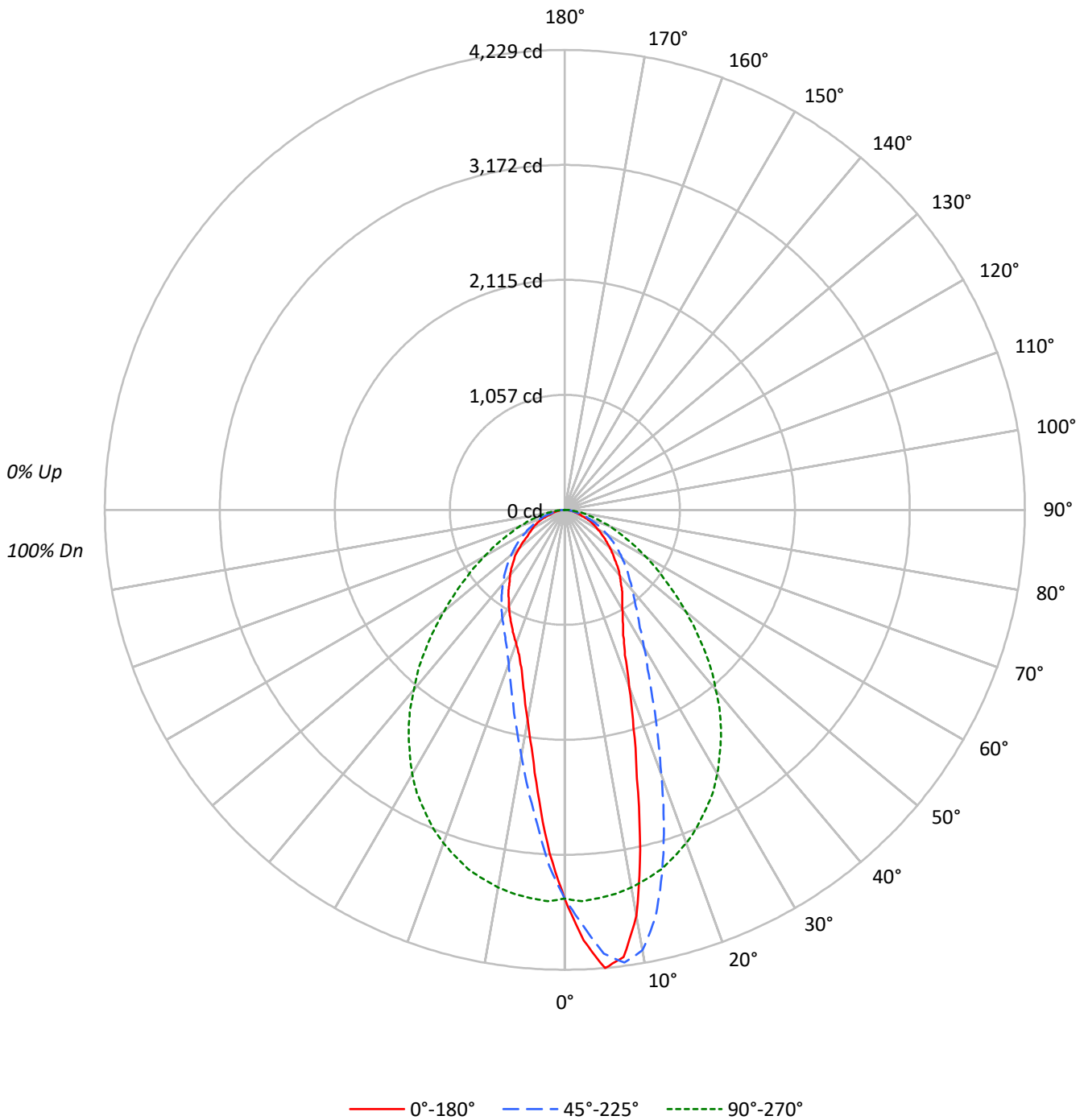
Input Watts (W): 42.2  
 Input Voltage (V): 120  
 Input Current (Ain): NR  
 Voltage Rise (V): NR  
 Power Factor: NR  
 Total Harmonic Distortion (THDi): NR  
 Frequency (hertz): 60  
 Stabilization Time: NR  
 Operation Time: NR  
 Ambient Temperature (°C): NR  
 Test Distance: 24 FT

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	P3	10/30/2015	4/30/2016
Power Meter	IN0214	1/12/2016	1/12/2017
AC Power Source	IN0062	1/12/2016	1/12/2017
DC Power Supply	--	--	--
Room Thermometer	IN0145	1/13/2016	1/13/2017

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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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87			87	
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76			76	
3	94	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67			67	
4	88	77	69	64	85	76	69	63	73	67	62	71	66	62	69	65	61	59			59	
5	82	70	62	56	80	69	62	56	67	61	56	65	60	55	63	58	54	53			53	
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47			47	
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43			43	
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	51	45	41	39			39	
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36			36	
10	60	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33			33	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	38485	38485	38485	38485	38485
5°	45697	44239	38727	31306	29066
10°	41402	44935	38534	25083	21518
15°	28505	38528	38128	20501	17022
20°	19832	29662	37362	17287	14961
25°	15112	22607	36248	15365	13789
30°	13155	18074	34855	14266	12772
35°	12077	15247	32881	13340	11846
40°	11020	13616	30300	12431	10999
45°	9952	12452	27515	11571	10153
50°	9034	11489	24229	10727	9108
55°	8171	10550	21073	9903	7812
60°	7322	9593	18303	8994	7384
65°	6757	8512	15755	8084	6981
70°	5489	7358	13747	7311	5674
75°	4816	5852	11645	6068	4999
80°	4364	4953	9540	5089	4723
85°	3989	4347	7237	4619	4347

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 80°  
 Vertical Angle: 45°  
 Luminance: 29032 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	325.9	6.9
10°-20°	754.1	15.9
20°-30°	865.2	18.3
30°-40°	852.8	18.0
40°-50°	752.1	15.9
50°-60°	578.6	12.2
60°-70°	380.4	8.0
70°-80°	184.7	3.9
80°-90°	46.6	1.0
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°	1945.2	41.0
0°-40°	2798.0	59.0
0°-60°	4128.7	87.1
0°-90°	4740.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4740.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3575	3575	3575	3575	3575	
5°	4229	4094	3584	2897	2690	386
15°	2558	3457	3422	1840	1528	722
25°	1272	1904	3052	1294	1161	601
35°	919	1160	2502	1015	902	573
45°	654	818	1808	760	667	508
55°	435	562	1123	528	416	391
65°	265	334	619	317	274	260
75°	116	141	280	146	120	125
85°	32	35	59	37	35	36
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°	3575.4	3575.4	3575.4	3575.4	3575.4	3575.4	3575.4	3575.4	3575.4	3575.4	3575.4
2.5°	3962.4	3949.9	3937.5	3933.8	3930.1	3918.4	3906.7	3880.3	3853.9	3826.8	3799.7
5°	4229.2	4230.6	4232.1	4228.4	4224.8	4209.4	4194.0	4161.7	4129.5	4094.3	4059.1
7.5°	4147.1	4170.5	4194.0	4198.4	4202.8	4214.5	4226.2	4218.9	4211.6	4198.4	4185.2
10°	3787.9	3786.5	3785.0	3811.4	3837.8	3916.2	3994.6	4034.9	4075.3	4111.2	4147.1
12.5°	3201.6	3203.8	3206.0	3292.5	3378.9	3453.0	3527.0	3629.6	3732.2	3842.9	3953.6
15°	2558.0	2593.9	2629.9	2706.8	2783.8	2895.2	3006.6	3144.4	3282.2	3457.4	3632.6
17.5°	2100.7	2116.1	2131.4	2205.5	2279.5	2385.1	2490.6	2646.7	2802.8	3028.6	3254.3
20°	1731.3	1745.2	1759.1	1812.6	1866.1	1967.3	2068.4	2217.2	2366.0	2589.5	2813.1
22.5°	1445.4	1472.5	1499.6	1535.6	1571.5	1644.8	1718.1	1869.8	2021.5	2225.3	2429.0
25°	1272.4	1284.9	1297.3	1328.1	1358.9	1429.3	1499.6	1600.1	1700.5	1903.5	2106.5
27.5°	1155.1	1158.8	1162.5	1185.2	1207.9	1253.4	1298.8	1391.9	1485.0	1652.1	1819.2
30°	1058.4	1065.0	1071.6	1089.2	1106.8	1139.8	1172.7	1238.7	1304.7	1454.2	1603.7
32.5°	983.6	987.3	991.0	1005.6	1020.3	1044.5	1068.7	1120.7	1172.7	1287.1	1401.4
35°	919.1	919.9	920.6	931.6	942.6	966.0	989.5	1032.7	1076.0	1160.3	1244.6
37.5°	845.8	851.0	856.1	864.2	872.2	892.7	913.3	948.5	983.6	1053.3	1122.9
40°	784.3	788.7	793.1	802.6	812.1	828.2	844.4	876.6	908.9	969.0	1029.1
42.5°	722.7	725.6	728.6	738.1	747.6	767.4	787.2	812.9	838.5	888.3	938.2
45°	653.8	661.1	668.5	678.7	689.0	705.8	722.7	749.1	775.5	818.0	860.5
47.5°	596.6	600.3	604.0	612.8	621.6	642.1	662.6	686.1	709.5	749.1	788.7
50°	539.5	540.9	542.4	550.5	558.5	576.8	595.2	622.3	649.4	686.1	722.7
52.5°	485.2	488.9	492.5	500.6	508.7	521.1	533.6	561.4	589.3	625.2	661.1
55°	435.4	437.6	439.8	445.6	451.5	466.2	480.8	505.0	529.2	562.2	595.2
57.5°	388.5	391.4	394.3	398.7	403.1	416.3	429.5	450.8	472.0	505.0	538.0
60°	340.1	343.8	347.4	352.6	357.7	367.9	378.2	397.3	416.3	445.6	475.0
62.5°	304.9	305.6	306.4	310.8	315.2	322.5	329.8	345.2	360.6	389.9	419.3
65°	265.3	267.5	269.7	271.9	274.1	280.0	285.9	299.0	312.2	334.2	356.2
67.5°	224.3	226.5	228.7	232.3	236.0	241.1	246.3	255.1	263.9	284.4	304.9
70°	174.4	174.4	174.4	180.3	186.2	195.0	203.8	210.4	217.0	233.8	250.7
72.5°	142.2	142.9	143.7	144.4	145.1	150.3	155.4	166.4	177.4	187.6	197.9
75°	115.8	116.5	117.3	118.0	118.7	120.2	121.7	125.3	129.0	140.7	152.5
77.5°	92.4	93.1	93.8	94.6	95.3	96.8	98.2	99.7	101.1	105.5	109.9
80°	70.4	71.1	71.8	72.6	73.3	74.0	74.8	76.2	77.7	79.9	82.1
82.5°	51.3	51.3	51.3	51.3	51.3	52.8	54.2	54.2	54.2	55.7	57.2
85°	32.3	32.3	32.3	33.0	33.7	33.7	33.7	34.4	35.2	35.2	35.2
87.5°	14.7	13.9	13.2	13.9	14.7	14.7	14.7	15.4	16.1	16.1	16.1
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°	3575.4	3575.4	3575.4	3575.4	3575.4	3575.4	3575.4	3575.4	3575.4	3575.4	3575.4
2.5°	3796.0	3792.3	3757.2	3722.0	3687.5	3653.1	3627.4	3601.8	3558.5	3515.3	3488.2
5°	4031.3	4003.4	3947.7	3892.0	3808.5	3724.9	3654.5	3584.2	3494.8	3405.3	3330.6
7.5°	4162.5	4139.8	4072.3	4004.9	3894.2	3783.5	3673.6	3563.7	3431.7	3299.8	3186.9
10°	4166.1	4185.2	4129.5	4073.8	3949.2	3824.6	3675.1	3525.5	3348.2	3170.8	3024.9
12.5°	4035.7	4117.8	4106.0	4094.3	3967.5	3840.7	3658.9	3477.2	3259.5	3041.8	2859.3
15°	3791.6	3950.7	3997.6	4044.5	3939.7	3834.8	3628.2	3421.5	3165.7	2909.9	2700.2
17.5°	3477.2	3700.0	3823.9	3947.7	3871.5	3795.3	3568.8	3342.3	3054.2	2766.2	2538.2
20°	3104.8	3396.5	3590.8	3785.0	3757.2	3729.3	3495.5	3261.7	2950.9	2640.1	2393.1
22.5°	2736.9	3044.7	3313.0	3581.2	3609.8	3638.4	3402.4	3166.4	2826.3	2486.2	2234.8
25°	2419.5	2732.5	3052.0	3371.6	3436.1	3500.6	3276.3	3052.0	2699.5	2346.9	2097.0
27.5°	2116.8	2414.4	2766.2	3118.0	3235.3	3352.6	3147.3	2942.1	2574.9	2207.7	1958.5
30°	1869.8	2135.8	2495.0	2854.1	3017.6	3181.0	2992.7	2804.3	2440.0	2075.7	1831.7
32.5°	1639.6	1877.8	2238.5	2599.1	2788.9	2978.8	2816.0	2653.3	2303.0	1952.6	1711.5
35°	1457.9	1671.1	2007.6	2344.0	2556.6	2769.1	2635.7	2502.3	2160.0	1817.7	1589.8
37.5°	1301.7	1480.6	1796.5	2112.4	2338.1	2563.9	2452.5	2341.1	2019.3	1697.5	1482.0
40°	1172.7	1316.4	1610.3	1904.2	2125.6	2346.9	2251.7	2156.4	1868.3	1580.3	1378.7
42.5°	1062.1	1185.9	1449.8	1713.7	1916.7	2119.7	2056.7	1993.7	1732.7	1471.8	1284.9
45°	964.6	1068.7	1301.0	1533.4	1720.3	1907.2	1857.3	1807.5	1582.5	1357.4	1185.9
47.5°	878.1	967.5	1174.9	1382.4	1550.2	1718.1	1671.9	1625.7	1439.5	1253.4	1097.2
50°	798.9	875.2	1048.1	1221.1	1372.1	1523.1	1485.0	1446.9	1292.9	1139.0	1004.2
52.5°	724.2	787.2	942.6	1098.0	1219.6	1341.3	1312.0	1282.7	1163.9	1045.2	922.8
55°	653.1	711.0	842.2	973.4	1077.5	1181.5	1152.2	1122.9	1030.5	938.2	830.4
57.5°	588.6	639.1	745.4	851.7	934.5	1017.3	1003.4	989.5	912.5	835.6	746.9
60°	520.4	565.8	657.5	749.1	815.8	882.5	866.4	850.2	795.3	740.3	664.1
62.5°	459.6	499.9	573.2	646.5	700.7	754.9	743.2	731.5	689.7	647.9	584.9
65°	395.8	435.4	494.7	554.1	596.6	639.1	628.9	618.6	587.1	555.6	505.0
67.5°	337.9	370.9	422.2	473.5	502.1	530.7	524.8	518.9	494.7	470.6	431.0
70°	279.3	307.8	350.4	392.9	412.7	432.4	434.6	436.8	414.9	392.9	363.5
72.5°	220.6	243.3	282.9	322.5	337.9	353.3	352.6	351.8	338.6	325.4	299.0
75°	169.3	186.2	217.0	247.7	260.9	274.1	277.1	280.0	267.5	255.1	240.4
77.5°	121.7	133.4	156.9	180.3	195.0	209.6	211.1	212.6	206.7	200.8	186.9
80°	85.8	89.4	104.1	118.7	134.1	149.5	151.7	153.9	148.1	142.2	133.4
82.5°	59.4	61.6	66.7	71.8	84.3	96.8	99.7	102.6	99.7	96.8	87.2
85°	35.9	36.6	38.8	41.0	46.9	52.8	55.7	58.6	57.2	55.7	50.6
87.5°	16.1	16.1	16.9	17.6	19.1	20.5	24.2	27.9	25.7	23.5	21.3
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°	3575.4	3575.4	3575.4	3575.4	3575.4	3575.4	3575.4	3575.4	3575.4	3575.4	3575.4
2.5°	3461.0	3419.3	3377.5	3347.4	3317.4	3280.0	3242.6	3241.2	3239.7	3211.8	3184.0
5°	3255.8	3183.2	3110.7	3039.6	2968.5	2897.4	2826.3	2810.2	2794.0	2769.9	2745.7
7.5°	3074.0	2958.2	2842.4	2751.5	2660.6	2589.5	2518.5	2470.1	2421.7	2384.3	2346.9
10°	2879.1	2735.4	2591.7	2481.8	2371.9	2294.9	2217.9	2162.2	2106.5	2080.1	2053.8
12.5°	2676.8	2520.7	2364.5	2256.8	2149.0	2056.7	1964.3	1913.8	1863.2	1826.5	1789.9
15°	2490.6	2322.8	2154.9	2040.6	1926.2	1839.7	1753.2	1702.7	1652.1	1615.4	1578.8
17.5°	2310.3	2141.0	1971.7	1855.9	1740.0	1661.6	1583.2	1534.1	1485.0	1462.3	1439.5
20°	2146.1	1975.3	1804.5	1695.3	1586.1	1509.2	1432.2	1405.8	1379.4	1358.2	1336.9
22.5°	1983.4	1819.2	1655.0	1550.2	1445.4	1389.7	1334.0	1312.7	1291.5	1275.4	1259.2
25°	1847.1	1683.6	1520.2	1428.5	1336.9	1293.7	1250.4	1236.5	1222.6	1206.5	1190.3
27.5°	1709.3	1553.9	1398.5	1325.2	1251.9	1216.7	1181.5	1163.9	1146.3	1133.2	1120.0
30°	1587.6	1443.9	1300.3	1239.4	1178.6	1147.8	1117.0	1098.0	1078.9	1066.5	1054.0
32.5°	1470.3	1342.8	1215.2	1163.2	1111.2	1081.1	1051.1	1032.7	1014.4	999.8	985.1
35°	1361.8	1251.2	1140.5	1092.8	1045.2	1015.2	985.1	966.8	948.5	933.8	919.1
37.5°	1266.6	1166.1	1065.7	1021.0	976.3	949.9	923.5	904.5	885.4	870.0	854.6
40°	1177.1	1088.4	999.8	956.5	913.3	884.7	856.1	839.2	822.4	808.5	794.5
42.5°	1098.0	1016.6	935.3	892.7	850.2	823.1	796.0	776.2	756.4	748.4	740.3
45°	1014.4	942.6	870.8	829.7	788.7	760.1	731.5	714.6	697.8	690.4	683.1
47.5°	941.1	874.4	807.7	767.4	727.1	701.4	675.8	662.6	649.4	639.1	628.9
50°	869.3	804.8	740.3	701.4	662.6	640.6	618.6	602.5	586.4	579.0	571.7
52.5°	800.4	741.8	683.1	643.5	604.0	582.7	561.4	547.5	533.6	518.2	502.8
55°	722.7	671.4	620.1	584.9	549.7	527.7	505.7	489.6	473.5	457.4	441.2
57.5°	658.2	607.6	557.0	525.5	494.0	472.8	451.5	433.9	416.3	403.1	389.9
60°	587.8	543.9	499.9	469.1	438.3	417.8	397.3	380.4	363.5	357.0	350.4
62.5°	521.9	480.8	439.8	412.7	385.5	365.7	346.0	335.0	324.0	319.6	315.2
65°	454.4	419.3	384.1	359.2	334.2	317.4	300.5	295.4	290.3	286.6	282.9
67.5°	391.4	361.3	331.3	309.3	287.3	275.6	263.9	258.0	252.1	247.7	243.3
70°	334.2	307.8	281.5	262.4	243.3	232.3	221.4	216.2	211.1	203.0	195.0
72.5°	272.7	252.1	231.6	217.0	202.3	192.8	183.2	173.0	162.7	155.4	148.1
75°	225.8	205.2	184.7	170.8	156.9	145.9	134.9	131.2	127.5	125.3	123.1
77.5°	173.0	155.4	137.8	126.8	115.8	110.7	105.5	103.3	101.1	100.4	99.7
80°	124.6	109.9	95.3	89.4	83.6	82.1	80.6	79.2	77.7	77.0	76.2
82.5°	77.7	70.4	63.0	61.6	60.1	59.4	58.6	57.9	57.2	56.4	55.7
85°	45.4	42.5	39.6	38.8	38.1	37.4	36.6	36.6	36.6	36.6	36.6
87.5°	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	18.3	17.6
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: P832457

CATALOG NUMBER: S123RDP-S1165D950-4F0-1E-UDD-G

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	3575.4	3575.4	3575.4	3575.4
2.5°	3176.7	3169.3	3166.4	3163.5
5°	2722.9	2700.2	2695.1	2690.0
7.5°	2337.4	2327.9	2296.4	2264.8
10°	2024.4	1995.1	1981.9	1968.7
12.5°	1762.8	1735.7	1731.3	1726.9
15°	1559.7	1540.7	1534.1	1527.5
17.5°	1426.3	1413.1	1405.1	1397.0
20°	1327.4	1317.9	1312.0	1306.1
22.5°	1251.9	1244.6	1240.2	1235.8
25°	1179.3	1168.3	1164.7	1161.0
27.5°	1110.4	1100.9	1097.2	1093.6
30°	1045.9	1037.9	1032.7	1027.6
32.5°	975.6	966.0	963.1	960.2
35°	913.3	907.4	904.5	901.5
37.5°	847.3	840.0	835.6	831.2
40°	790.9	787.2	785.0	782.8
42.5°	733.7	727.1	726.4	725.6
45°	676.5	669.9	668.5	667.0
47.5°	623.0	617.2	616.4	615.7
50°	563.6	555.6	549.7	543.9
52.5°	495.5	488.2	483.0	477.9
55°	433.2	425.1	420.7	416.3
57.5°	386.3	382.6	380.4	378.2
60°	348.2	346.0	344.5	343.0
62.5°	313.0	310.8	310.8	310.8
65°	280.7	278.5	276.3	274.1
67.5°	238.9	234.5	233.8	233.1
70°	188.4	181.8	181.0	180.3
72.5°	147.3	146.6	145.1	143.7
75°	121.7	120.2	120.2	120.2
77.5°	98.2	96.8	96.8	96.8
80°	75.5	74.8	75.5	76.2
82.5°	55.7	55.7	55.0	54.2
85°	35.9	35.2	35.2	35.2
87.5°	17.6	17.6	17.6	17.6
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P832457

CATALOG NUMBER: S123RDP-S1165D950-4F0-1E-UDD-G

**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	17.39	18.84	17.75	19.16	19.47	22.05	23.51	22.42	23.82	24.14
	3H	18.65	19.95	19.03	20.28	20.64	23.59	24.90	23.97	25.22	25.59
	4H	19.06	20.28	19.46	20.63	21.01	24.11	25.33	24.51	25.68	26.06
	6H	19.37	20.49	19.78	20.86	21.26	24.45	25.58	24.86	25.94	26.34
	8H	19.47	20.54	19.90	20.93	21.34	24.55	25.62	24.97	26.01	26.41
	12H	19.54	20.57	19.97	20.95	21.38	24.60	25.62	25.03	26.00	26.43
4H	2H	18.18	19.40	18.58	19.75	20.13	22.12	23.34	22.52	23.69	24.07
	3H	19.60	20.61	20.01	21.01	21.41	23.82	24.83	24.24	25.24	25.64
	4H	20.08	20.98	20.51	21.40	21.84	24.45	25.36	24.89	25.78	26.22
	6H	20.47	21.26	20.93	21.71	22.17	24.92	25.71	25.38	26.15	26.61
	8H	20.61	21.35	21.08	21.79	22.26	25.06	25.80	25.53	26.24	26.71
	12H	20.71	21.37	21.20	21.85	22.32	25.15	25.81	25.63	26.29	26.76
8H	4H	20.43	21.17	20.90	21.61	22.08	24.46	25.20	24.93	25.64	26.11
	6H	20.92	21.52	21.41	22.01	22.49	24.98	25.58	25.48	26.07	26.55
	8H	21.11	21.65	21.63	22.16	22.65	25.16	25.71	25.68	26.22	26.71
	12H	21.28	21.75	21.79	22.25	22.81	25.31	25.78	25.82	26.28	26.84
12H	4H	20.47	21.12	20.95	21.60	22.08	24.44	25.09	24.92	25.57	26.04
	6H	20.97	21.52	21.49	22.03	22.52	24.95	25.49	25.47	26.01	26.49
	8H	21.22	21.70	21.73	22.19	22.76	25.17	25.65	25.68	26.14	26.71