

Scaled data based on original data using
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: P832432

Luminaire Tested: S123RDIP-S775D805U935-4F0-1E-UDD-G1

Issue Date: 05/03/2024

Test Information

Test Method: LM-79-2019
Report Number: P832432
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-905-2, G3-1807-864-9)
Test Lab: INNOVATION CENTER
Issue Date: 05/03/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-S775D805U935-4F0-1E-UDD-G1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, GRAZE OPTIC
UPLIGHT 805 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: -

Summary

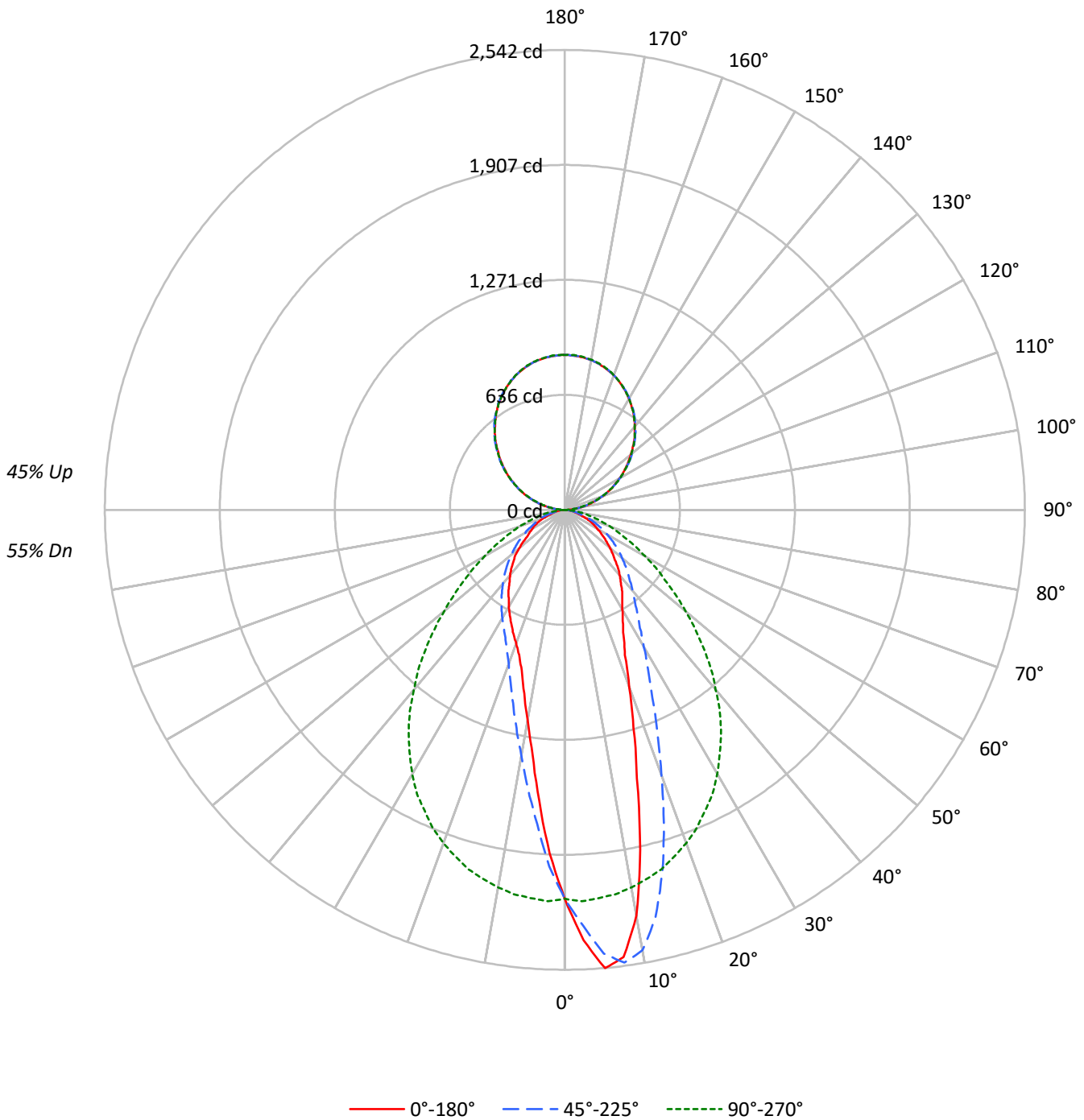
Lumens per Lamp: N/A
Luminaire Lumens: 5226.1 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 1.17 / 0.8
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 46.5
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

TEST NUMBER: P832432

CATALOG NUMBER: S123RDIP-S775D805U935-4F0-1E-UDD-G1

Luminous Intensity Polar Plot





TEST NUMBER: P832432

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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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55				
1	100	96	92	89	92	89	86	83	77	74	72	65	64	62	55	54	53	48				
2	92	85	79	74	85	79	74	70	68	65	61	58	56	53	49	47	46	41				
3	84	75	68	63	78	70	64	59	61	57	53	52	49	46	45	42	40	36				
4	78	67	60	54	72	63	57	51	55	50	46	47	44	41	41	38	35	32				
5	72	61	53	47	66	57	50	45	50	45	40	43	39	36	37	34	32	29				
6	66	55	47	42	62	52	45	40	45	40	36	40	35	32	34	31	29	26				
7	62	50	42	37	57	47	40	36	42	36	32	36	32	29	32	28	26	23				
8	58	46	38	33	54	43	37	32	38	33	29	34	29	26	29	26	24	21				
9	54	42	35	30	50	40	33	29	35	30	27	31	27	24	27	24	22	20				
10	51	39	32	28	47	37	31	26	33	28	24	29	25	22	26	22	20	18				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	23137	23137	23137	23137	23137
5°	27472	26596	23282	18821	17474
10°	24890	27015	23166	15080	12937
15°	17137	23162	22921	12325	10233
20°	11922	17833	22462	10393	8994
25°	9086	13592	21791	9236	8290
30°	7909	10866	20954	8576	7679
35°	7261	9165	19768	8020	7122
40°	6625	8185	18216	7474	6613
45°	5984	7486	16541	6955	6104
50°	5431	6906	14565	6449	5476
55°	4911	6343	12669	5955	4697
60°	4402	5767	11003	5408	4439
65°	4062	5117	9472	4860	4197
70°	3301	4425	8264	4397	3412
75°	2895	3518	6999	3647	3007
80°	2622	2975	5734	3062	2839
85°	2396	2618	4360	2779	2618

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 80°
 Vertical Angle: 45°
 Luminance: 17454 cd/sqm



TEST NUMBER: P832432

CATALOG NUMBER: S123RDIP-S775D805U935-4F0-1E-UDD-G1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.9	3.7
10°-20°	453.4	8.7
20°-30°	520.2	10.0
30°-40°	512.7	9.8
40°-50°	452.1	8.7
50°-60°	347.8	6.7
60°-70°	228.7	4.4
70°-80°	111.1	2.1
80°-90°	29.8	0.6
90°-100°	55.2	1.1
100°-110°	167.0	3.2
110°-120°	284.2	5.4
120°-130°	373.9	7.2
130°-140°	420.3	8.0
140°-150°	413.2	7.9
150°-160°	347.9	6.7
160°-170°	231.6	4.4
170°-180°	81.1	1.6
0°-30°	1169.4	22.4
0°-40°	1682.1	32.2
0°-60°	2482.1	47.5
0°-90°	2851.7	54.6
90°-120°	506.4	9.7
90°-150°	1713.8	32.8
90°-180°	2374.0	45.4
0°-180°	5226.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2150	2150	2150	2150	2150	
5°	2542	2461	2155	1742	1617	232
15°	1538	2078	2057	1106	918	434
25°	765	1144	1835	778	698	361
35°	553	698	1504	610	542	344
45°	393	492	1087	457	401	305
55°	262	338	675	317	250	235
65°	160	201	372	191	165	156
75°	70	85	168	88	72	75
85°	19	21	35	22	21	21
90°	20	16	1	16	20	11
95°	52	50	40	50	52	53
105°	160	159	152	159	160	170
115°	287	287	286	287	287	284
125°	414	419	419	419	414	370
135°	543	547	543	547	543	417
145°	659	662	659	662	659	412
155°	753	755	755	755	753	347
165°	819	820	822	820	819	231
175°	852	852	855	852	852	81
180°	857	857	857	857	857	



TEST NUMBER: P832432

CATALOG NUMBER: S123RDIP-S775D805U935-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2149.5	2149.5	2149.5	2149.5	2149.5	2149.5	2149.5	2149.5	2149.5	2149.5	2149.5
2.5°	2382.1	2374.6	2367.1	2364.9	2362.7	2355.7	2348.6	2332.8	2316.9	2300.6	2284.3
5°	2542.5	2543.4	2544.3	2542.1	2539.9	2530.6	2521.4	2502.0	2482.6	2461.4	2440.3
7.5°	2493.2	2507.3	2521.4	2524.0	2526.6	2533.7	2540.7	2536.3	2531.9	2524.0	2516.1
10°	2277.2	2276.4	2275.5	2291.3	2307.2	2354.4	2401.5	2425.7	2450.0	2471.6	2493.2
12.5°	1924.7	1926.1	1927.4	1979.4	2031.4	2075.9	2120.4	2182.1	2243.8	2310.3	2376.8
15°	1537.8	1559.4	1581.0	1627.3	1673.6	1740.5	1807.5	1890.4	1973.2	2078.5	2183.8
17.5°	1262.9	1272.1	1281.4	1325.9	1370.4	1433.9	1497.3	1591.2	1685.0	1820.7	1956.5
20°	1040.8	1049.2	1057.5	1089.7	1121.9	1182.7	1243.5	1332.9	1422.4	1556.8	1691.2
22.5°	868.9	885.3	901.6	923.1	944.7	988.8	1032.9	1124.1	1215.3	1337.8	1460.3
25°	765.0	772.4	779.9	798.4	817.0	859.3	901.6	961.9	1022.3	1144.4	1266.4
27.5°	694.5	696.7	698.9	712.5	726.2	753.5	780.8	836.8	892.7	993.2	1093.7
30°	636.3	640.3	644.2	654.8	665.4	685.2	705.0	744.7	784.3	874.2	964.1
32.5°	591.3	593.5	595.7	604.6	613.4	627.9	642.5	673.7	705.0	773.8	842.5
35°	552.6	553.0	553.4	560.1	566.7	580.8	594.9	620.9	646.9	697.5	748.2
37.5°	508.5	511.6	514.7	519.5	524.4	536.7	549.0	570.2	591.3	633.2	675.1
40°	471.5	474.1	476.8	482.5	488.2	497.9	507.6	527.0	546.4	582.5	618.7
42.5°	434.5	436.2	438.0	443.7	449.5	461.4	473.3	488.7	504.1	534.1	564.0
45°	393.1	397.5	401.9	408.0	414.2	424.3	434.5	450.3	466.2	491.8	517.3
47.5°	358.7	360.9	363.1	368.4	373.7	386.0	398.3	412.4	426.5	450.3	474.1
50°	324.3	325.2	326.1	330.9	335.8	346.8	357.8	374.1	390.4	412.4	434.5
52.5°	291.7	293.9	296.1	301.0	305.8	313.3	320.8	337.5	354.3	375.9	397.5
55°	261.7	263.1	264.4	267.9	271.4	280.2	289.1	303.6	318.1	338.0	357.8
57.5°	233.5	235.3	237.1	239.7	242.4	250.3	258.2	271.0	283.8	303.6	323.4
60°	204.5	206.7	208.9	211.9	215.0	221.2	227.4	238.8	250.3	267.9	285.5
62.5°	183.3	183.7	184.2	186.8	189.5	193.9	198.3	207.5	216.8	234.4	252.0
65°	159.5	160.8	162.2	163.5	164.8	168.3	171.9	179.8	187.7	200.9	214.2
67.5°	134.8	136.2	137.5	139.7	141.9	145.0	148.1	153.3	158.6	171.0	183.3
70°	104.9	104.9	104.9	108.4	111.9	117.2	122.5	126.5	130.4	140.6	150.7
72.5°	85.5	85.9	86.4	86.8	87.2	90.3	93.4	100.0	106.6	112.8	119.0
75°	69.6	70.1	70.5	70.9	71.4	72.3	73.1	75.3	77.6	84.6	91.7
77.5°	55.5	56.0	56.4	56.8	57.3	58.2	59.0	59.9	60.8	63.5	66.1
80°	42.3	42.7	43.2	43.6	44.1	44.5	44.9	45.8	46.7	48.0	49.4
82.5°	30.8	30.8	30.8	30.8	30.8	31.7	32.6	32.6	32.6	33.5	34.4
85°	19.4	19.4	19.4	19.8	20.3	20.3	20.3	20.7	21.2	21.2	21.2
87.5°	8.8	8.4	7.9	8.4	8.8	8.8	8.8	9.3	9.7	9.7	9.7
90°	20.2	19.9	19.6	19.3	19.0	18.5	18.0	17.4	16.8	16.2	14.2
92.5°	28.9	29.2	29.5	29.8	30.1	30.1	29.6	29.2	28.7	28.3	27.4
95°	52.5	52.5	52.5	52.5	52.5	52.2	51.6	51.0	50.4	49.8	48.6
97.5°	75.4	75.5	75.7	75.8	76.0	75.7	74.9	74.2	73.4	72.7	71.8
100°	102.3	102.0	101.7	101.4	101.1	100.8	100.3	99.9	99.4	99.0	98.2
102.5°	129.9	130.1	130.2	130.4	130.5	130.4	129.9	129.5	129.0	128.6	127.5
105°	160.2	159.9	159.6	159.3	159.0	158.9	158.9	158.9	158.9	158.9	157.5
107.5°	191.2	191.3	191.5	191.6	191.8	191.6	191.2	190.7	190.3	189.8	189.2
110°	222.8	223.1	223.4	223.7	224.0	223.9	223.3	222.7	222.1	221.5	221.2



TEST NUMBER: P832432

CATALOG NUMBER: S123RDIP-S775D805U935-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	256.5	256.5	256.5	256.5	256.5	256.1	255.4	254.6	253.9	253.1	253.1
115°	286.8	286.9	287.1	287.2	287.4	287.4	287.2	287.1	286.9	286.8	287.1
117.5°	317.7	318.2	318.6	319.1	319.5	319.8	319.8	319.8	319.8	319.8	320.1
120°	350.7	351.0	351.3	351.6	351.9	352.1	352.3	352.4	352.6	352.7	353.5
122.5°	382.4	382.8	383.3	383.7	384.2	384.6	385.1	385.5	385.9	386.4	386.7
125°	414.0	414.6	415.2	415.8	416.4	417.0	417.6	418.2	418.8	419.4	419.7
127.5°	445.6	446.2	446.8	447.4	448.0	448.8	449.7	450.6	451.5	452.4	452.7
130°	476.6	477.6	478.7	479.7	480.8	481.6	482.2	482.8	483.4	484.0	484.5
132.5°	508.9	509.7	510.4	511.2	511.9	512.7	513.4	514.1	514.9	515.6	515.9
135°	542.6	542.9	543.2	543.5	543.8	544.2	544.8	545.4	546.0	546.6	546.8
137.5°	572.2	572.6	573.1	573.5	574.0	574.6	575.3	576.1	576.8	577.6	577.1
140°	601.1	602.2	603.2	604.3	605.3	605.9	606.1	606.2	606.4	606.5	606.4
142.5°	630.8	631.5	632.3	633.0	633.7	634.2	634.3	634.5	634.6	634.8	634.5
145°	659.0	659.6	660.2	660.8	661.4	661.8	661.9	662.1	662.2	662.4	661.9
147.5°	684.6	685.5	686.4	687.3	688.2	688.6	688.6	688.6	688.6	688.6	688.2
150°	708.8	709.7	710.6	711.5	712.4	712.9	712.9	712.9	712.9	712.9	712.6
152.5°	732.4	733.2	733.9	734.6	735.4	735.6	735.3	735.0	734.7	734.4	734.3
155°	753.3	754.3	755.4	756.4	757.5	757.7	757.1	756.5	755.9	755.3	755.1
157.5°	772.8	773.7	774.6	775.5	776.4	776.5	775.9	775.3	774.7	774.1	774.0
160°	791.6	792.2	792.8	793.4	794.0	794.0	793.2	792.5	791.7	791.0	791.0
162.5°	805.8	806.8	807.9	808.9	810.0	810.1	809.4	808.6	807.9	807.1	807.0
165°	819.2	820.3	821.3	822.4	823.4	823.5	822.6	821.7	820.8	819.9	819.9
167.5°	831.4	832.3	833.2	834.1	834.9	834.9	834.1	833.2	832.3	831.4	831.2
170°	840.1	841.2	842.2	843.3	844.3	844.3	843.3	842.2	841.2	840.1	840.1
172.5°	846.8	847.9	848.9	850.0	851.0	851.1	850.2	849.3	848.4	847.5	847.5
175°	851.6	852.6	853.6	854.7	855.7	855.8	854.9	854.0	853.1	852.2	852.2
177.5°	854.2	855.3	856.3	857.4	858.4	858.5	857.6	856.7	855.8	854.9	854.9
180°	856.9	856.9	856.9	856.9	856.9	856.9	856.9	856.9	856.9	856.9	856.9



TEST NUMBER: P832432

CATALOG NUMBER: S123RDIP-S775D805U935-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2149.5	2149.5	2149.5	2149.5	2149.5	2149.5	2149.5	2149.5	2149.5	2149.5	2149.5
2.5°	2282.1	2279.9	2258.7	2237.6	2216.9	2196.2	2180.7	2165.3	2139.3	2113.3	2097.0
5°	2423.5	2406.8	2373.3	2339.8	2289.6	2239.3	2197.0	2154.7	2101.0	2047.2	2002.3
7.5°	2502.4	2488.8	2448.2	2407.7	2341.1	2274.6	2208.5	2142.4	2063.1	1983.8	1915.9
10°	2504.6	2516.1	2482.6	2449.1	2374.2	2299.3	2209.4	2119.5	2012.9	1906.2	1818.5
12.5°	2426.2	2475.5	2468.5	2461.4	2385.2	2309.0	2199.7	2090.4	1959.5	1828.7	1718.9
15°	2279.4	2375.1	2403.3	2431.5	2368.5	2305.4	2181.2	2056.9	1903.1	1749.4	1623.3
17.5°	2090.4	2224.4	2298.8	2373.3	2327.5	2281.7	2145.5	2009.3	1836.2	1663.0	1525.9
20°	1866.6	2041.9	2158.7	2275.5	2258.7	2242.0	2101.4	1960.9	1774.0	1587.2	1438.7
22.5°	1645.4	1830.4	1991.7	2153.0	2170.2	2187.4	2045.5	1903.6	1699.1	1494.7	1343.5
25°	1454.6	1642.7	1834.8	2027.0	2065.7	2104.5	1969.7	1834.8	1622.9	1410.9	1260.7
27.5°	1272.6	1451.5	1663.0	1874.5	1945.0	2015.5	1892.1	1768.7	1548.0	1327.2	1177.4
30°	1124.1	1284.0	1499.9	1715.9	1814.1	1912.4	1799.1	1685.9	1466.9	1247.9	1101.2
32.5°	985.7	1128.9	1345.7	1562.5	1676.6	1790.8	1693.0	1595.1	1384.5	1173.9	1028.9
35°	876.4	1004.7	1206.9	1409.2	1537.0	1664.7	1584.6	1504.4	1298.6	1092.8	955.8
37.5°	782.6	890.1	1080.0	1269.9	1405.7	1541.4	1474.4	1407.4	1214.0	1020.5	891.0
40°	705.0	791.4	968.1	1144.8	1277.9	1410.9	1353.7	1296.4	1123.2	950.0	828.8
42.5°	638.5	713.0	871.6	1030.2	1152.3	1274.3	1236.4	1198.5	1041.7	884.8	772.4
45°	579.9	642.5	782.1	921.8	1034.2	1146.6	1116.6	1086.6	951.3	816.1	713.0
47.5°	527.9	581.6	706.4	831.1	932.0	1032.9	1005.1	977.3	865.4	753.5	659.6
50°	480.3	526.1	630.1	734.1	824.9	915.7	892.7	869.8	777.3	684.8	603.7
52.5°	435.4	473.3	566.7	660.1	733.2	806.4	788.8	771.1	699.7	628.4	554.8
55°	392.6	427.4	506.3	585.2	647.7	710.3	692.7	675.1	619.5	564.0	499.2
57.5°	353.8	384.2	448.1	512.0	561.8	611.6	603.2	594.9	548.6	502.3	449.0
60°	312.9	340.2	395.3	450.3	490.4	530.5	520.8	511.1	478.1	445.0	399.2
62.5°	276.3	300.5	344.6	388.6	421.3	453.9	446.8	439.8	414.6	389.5	351.6
65°	237.9	261.7	297.4	333.1	358.7	384.2	378.1	371.9	353.0	334.0	303.6
67.5°	203.1	223.0	253.8	284.7	301.8	319.0	315.5	312.0	297.4	282.9	259.1
70°	167.9	185.1	210.6	236.2	248.1	260.0	261.3	262.6	249.4	236.2	218.6
72.5°	132.6	146.3	170.1	193.9	203.1	212.4	211.9	211.5	203.6	195.6	179.8
75°	101.8	111.9	130.4	148.9	156.9	164.8	166.6	168.3	160.8	153.3	144.5
77.5°	73.1	80.2	94.3	108.4	117.2	126.0	126.9	127.8	124.3	120.7	112.4
80°	51.6	53.8	62.6	71.4	80.6	89.9	91.2	92.5	89.0	85.5	80.2
82.5°	35.7	37.0	40.1	43.2	50.7	58.2	59.9	61.7	59.9	58.2	52.4
85°	21.6	22.0	23.4	24.7	28.2	31.7	33.5	35.3	34.4	33.5	30.4
87.5°	9.7	9.7	10.1	10.6	11.5	12.3	14.5	16.7	15.4	14.1	12.8
90°	12.3	10.3	8.4	6.7	5.2	3.7	2.2	0.7	2.2	3.7	5.2
92.5°	26.5	25.6	24.7	23.8	22.9	22.0	21.1	20.2	21.1	22.0	22.9
95°	47.4	46.2	45.0	43.9	42.9	41.8	40.8	39.7	40.8	41.8	42.9
97.5°	70.9	70.0	69.1	68.3	67.5	66.8	66.0	65.3	66.0	66.8	67.5
100°	97.5	96.7	96.0	95.1	94.2	93.3	92.4	91.6	92.4	93.3	94.2
102.5°	126.5	125.4	124.4	123.6	123.2	122.7	122.3	121.8	122.3	122.7	123.2
105°	156.2	154.8	153.5	152.7	152.4	152.1	151.8	151.5	151.8	152.1	152.4
107.5°	188.6	188.0	187.4	187.1	186.9	186.8	186.6	186.5	186.6	186.8	186.9
110°	220.9	220.6	220.3	220.0	219.7	219.4	219.1	218.8	219.1	219.4	219.7



TEST NUMBER: P832432

CATALOG NUMBER: S123RDIP-S775D805U935-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	253.1	253.1	253.1	253.0	252.9	252.7	252.6	252.4	252.6	252.7	252.9
115°	287.4	287.7	288.0	287.9	287.4	287.0	286.5	286.1	286.5	287.0	287.4
117.5°	320.4	320.7	321.0	321.0	320.9	320.7	320.6	320.4	320.6	320.7	320.9
120°	354.2	355.0	355.7	355.7	354.8	353.9	353.0	352.1	353.0	353.9	354.8
122.5°	387.0	387.3	387.6	387.4	386.8	386.2	385.6	385.1	385.6	386.2	386.8
125°	420.0	420.3	420.6	420.5	420.1	419.6	419.2	418.7	419.2	419.6	420.1
127.5°	453.0	453.3	453.6	453.3	452.4	451.5	450.6	449.7	450.6	451.5	452.4
130°	484.9	485.4	485.8	485.4	484.2	483.0	481.8	480.6	481.8	483.0	484.2
132.5°	516.2	516.5	516.8	516.4	515.2	514.0	512.8	511.6	512.8	514.0	515.2
135°	546.9	547.1	547.2	546.8	545.9	545.0	544.1	543.2	544.1	545.0	545.9
137.5°	576.7	576.2	575.8	575.2	574.4	573.7	572.9	572.2	572.9	573.7	574.4
140°	606.2	606.1	605.9	605.5	604.7	604.0	603.2	602.5	603.2	604.0	604.7
142.5°	634.2	633.9	633.6	633.1	632.3	631.6	630.8	630.1	630.8	631.6	632.3
145°	661.5	661.0	660.6	660.2	659.9	659.6	659.3	659.0	659.3	659.6	659.9
147.5°	687.8	687.3	686.9	686.3	685.7	685.1	684.5	683.9	684.5	685.1	685.7
150°	712.3	712.0	711.7	711.4	711.1	710.8	710.5	710.2	710.5	710.8	711.1
152.5°	734.1	734.0	733.8	733.5	733.1	732.6	732.2	731.7	732.2	732.6	733.1
155°	755.0	754.8	754.7	754.6	754.6	754.6	754.6	754.6	754.6	754.6	754.6
157.5°	773.8	773.7	773.5	773.5	773.7	773.8	774.0	774.1	774.0	773.8	773.7
160°	791.0	791.0	791.0	791.1	791.4	791.7	792.0	792.3	792.0	791.7	791.4
162.5°	806.8	806.7	806.5	806.7	807.1	807.6	808.0	808.5	808.0	807.6	807.1
165°	819.9	819.9	819.9	820.1	820.6	821.0	821.5	821.9	821.5	821.0	820.6
167.5°	831.1	830.9	830.8	831.0	831.6	832.2	832.8	833.4	832.8	832.2	831.6
170°	840.1	840.1	840.1	840.4	841.0	841.6	842.2	842.8	842.2	841.6	841.0
172.5°	847.5	847.5	847.5	847.8	848.4	849.0	849.6	850.2	849.6	849.0	848.4
175°	852.2	852.2	852.2	852.5	853.1	853.7	854.3	854.9	854.3	853.7	853.1
177.5°	854.9	854.9	854.9	855.2	855.8	856.4	857.0	857.6	857.0	856.4	855.8
180°	856.9	856.9	856.9	856.9	856.9	856.9	856.9	856.9	856.9	856.9	856.9



TEST NUMBER: P832432

CATALOG NUMBER: S123RDIP-S775D805U935-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2149.5	2149.5	2149.5	2149.5	2149.5	2149.5	2149.5	2149.5	2149.5	2149.5	2149.5
2.5°	2080.7	2055.6	2030.5	2012.4	1994.4	1971.9	1949.4	1948.5	1947.6	1930.9	1914.2
5°	1957.3	1913.7	1870.1	1827.3	1784.6	1741.9	1699.1	1689.4	1679.7	1665.2	1650.6
7.5°	1848.1	1778.4	1708.8	1654.2	1599.5	1556.8	1514.0	1485.0	1455.9	1433.4	1410.9
10°	1730.8	1644.5	1558.1	1492.0	1425.9	1379.7	1333.4	1299.9	1266.4	1250.5	1234.7
12.5°	1609.2	1515.4	1421.5	1356.7	1292.0	1236.4	1180.9	1150.5	1120.1	1098.1	1076.1
15°	1497.3	1396.4	1295.5	1226.8	1158.0	1106.0	1054.0	1023.6	993.2	971.2	949.1
17.5°	1388.9	1287.1	1185.3	1115.7	1046.1	998.9	951.8	922.3	892.7	879.1	865.4
20°	1290.2	1187.5	1084.9	1019.2	953.6	907.3	861.0	845.2	829.3	816.5	803.7
22.5°	1192.4	1093.7	995.0	932.0	868.9	835.5	802.0	789.2	776.4	766.7	757.0
25°	1110.4	1012.2	913.9	858.8	803.7	777.7	751.7	743.4	735.0	725.3	715.6
27.5°	1027.6	934.2	840.7	796.7	752.6	731.5	710.3	699.7	689.2	681.2	673.3
30°	954.4	868.1	781.7	745.1	708.6	690.0	671.5	660.1	648.6	641.1	633.6
32.5°	883.9	807.3	730.6	699.3	668.0	649.9	631.9	620.9	609.9	601.0	592.2
35°	818.7	752.2	685.6	657.0	628.4	610.3	592.2	581.2	570.2	561.4	552.6
37.5°	761.4	701.1	640.7	613.8	586.9	571.1	555.2	543.8	532.3	523.0	513.8
40°	707.7	654.4	601.0	575.0	549.0	531.9	514.7	504.5	494.4	486.0	477.7
42.5°	660.1	611.2	562.3	536.7	511.1	494.8	478.5	466.6	454.7	449.9	445.0
45°	609.9	566.7	523.5	498.8	474.1	456.9	439.8	429.6	419.5	415.1	410.7
47.5°	565.8	525.7	485.6	461.4	437.1	421.7	406.3	398.3	390.4	384.2	378.1
50°	522.6	483.8	445.0	421.7	398.3	385.1	371.9	362.2	352.5	348.1	343.7
52.5°	481.2	445.9	410.7	386.9	363.1	350.3	337.5	329.2	320.8	311.5	302.3
55°	434.5	403.6	372.8	351.6	330.5	317.3	304.0	294.3	284.7	275.0	265.3
57.5°	395.7	365.3	334.9	315.9	297.0	284.2	271.4	260.9	250.3	242.4	234.4
60°	353.4	327.0	300.5	282.0	263.5	251.2	238.8	228.7	218.6	214.6	210.6
62.5°	313.7	289.1	264.4	248.1	231.8	219.9	208.0	201.4	194.8	192.1	189.5
65°	273.2	252.0	230.9	215.9	200.9	190.8	180.7	177.6	174.5	172.3	170.1
67.5°	235.3	217.2	199.2	186.0	172.7	165.7	158.6	155.1	151.6	148.9	146.3
70°	200.9	185.1	169.2	157.8	146.3	139.7	133.1	130.0	126.9	122.1	117.2
72.5°	163.9	151.6	139.2	130.4	121.6	115.9	110.2	104.0	97.8	93.4	89.0
75°	135.7	123.4	111.0	102.7	94.3	87.7	81.1	78.9	76.7	75.3	74.0
77.5°	104.0	93.4	82.8	76.2	69.6	66.5	63.5	62.1	60.8	60.4	59.9
80°	74.9	66.1	57.3	53.8	50.2	49.4	48.5	47.6	46.7	46.3	45.8
82.5°	46.7	42.3	37.9	37.0	36.1	35.7	35.3	34.8	34.4	33.9	33.5
85°	27.3	25.6	23.8	23.4	22.9	22.5	22.0	22.0	22.0	22.0	22.0
87.5°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.0	10.6
90°	6.7	8.4	10.3	12.3	14.2	16.2	16.8	17.4	18.0	18.5	19.0
92.5°	23.8	24.7	25.6	26.5	27.4	28.3	28.7	29.2	29.6	30.1	30.1
95°	43.9	45.0	46.2	47.4	48.6	49.8	50.4	51.0	51.6	52.2	52.5
97.5°	68.3	69.1	70.0	70.9	71.8	72.7	73.4	74.2	74.9	75.7	76.0
100°	95.1	96.0	96.7	97.5	98.2	99.0	99.4	99.9	100.3	100.8	101.1
102.5°	123.6	124.4	125.4	126.5	127.5	128.6	129.0	129.5	129.9	130.4	130.5
105°	152.7	153.5	154.8	156.2	157.5	158.9	158.9	158.9	158.9	158.9	159.0
107.5°	187.1	187.4	188.0	188.6	189.2	189.8	190.3	190.7	191.2	191.6	191.8
110°	220.0	220.3	220.6	220.9	221.2	221.5	222.1	222.7	223.3	223.9	224.0



TEST NUMBER: P832432

CATALOG NUMBER: S123RDIP-S775D805U935-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	253.0	253.1	253.1	253.1	253.1	253.1	253.9	254.6	255.4	256.1	256.5
115°	287.9	288.0	287.7	287.4	287.1	286.8	286.9	287.1	287.2	287.4	287.4
117.5°	321.0	321.0	320.7	320.4	320.1	319.8	319.8	319.8	319.8	319.8	319.5
120°	355.7	355.7	355.0	354.2	353.5	352.7	352.6	352.4	352.3	352.1	351.9
122.5°	387.4	387.6	387.3	387.0	386.7	386.4	385.9	385.5	385.1	384.6	384.2
125°	420.5	420.6	420.3	420.0	419.7	419.4	418.8	418.2	417.6	417.0	416.4
127.5°	453.3	453.6	453.3	453.0	452.7	452.4	451.5	450.6	449.7	448.8	448.0
130°	485.4	485.8	485.4	484.9	484.5	484.0	483.4	482.8	482.2	481.6	480.8
132.5°	516.4	516.8	516.5	516.2	515.9	515.6	514.9	514.1	513.4	512.7	511.9
135°	546.8	547.2	547.1	546.9	546.8	546.6	546.0	545.4	544.8	544.2	543.8
137.5°	575.2	575.8	576.2	576.7	577.1	577.6	576.8	576.1	575.3	574.6	574.0
140°	605.5	605.9	606.1	606.2	606.4	606.5	606.4	606.2	606.1	605.9	605.3
142.5°	633.1	633.6	633.9	634.2	634.5	634.8	634.6	634.5	634.3	634.2	633.7
145°	660.2	660.6	661.0	661.5	661.9	662.4	662.2	662.1	661.9	661.8	661.4
147.5°	686.3	686.9	687.3	687.8	688.2	688.6	688.6	688.6	688.6	688.6	688.2
150°	711.4	711.7	712.0	712.3	712.6	712.9	712.9	712.9	712.9	712.9	712.4
152.5°	733.5	733.8	734.0	734.1	734.3	734.4	734.7	735.0	735.3	735.6	735.4
155°	754.6	754.7	754.8	755.0	755.1	755.3	755.9	756.5	757.1	757.7	757.5
157.5°	773.5	773.5	773.7	773.8	774.0	774.1	774.7	775.3	775.9	776.5	776.4
160°	791.1	791.0	791.0	791.0	791.0	791.0	791.7	792.5	793.2	794.0	794.0
162.5°	806.7	806.5	806.7	806.8	807.0	807.1	807.9	808.6	809.4	810.1	810.0
165°	820.1	819.9	819.9	819.9	819.9	819.9	820.8	821.7	822.6	823.5	823.4
167.5°	831.0	830.8	830.9	831.1	831.2	831.4	832.3	833.2	834.1	834.9	834.9
170°	840.4	840.1	840.1	840.1	840.1	840.1	841.2	842.2	843.3	844.3	844.3
172.5°	847.8	847.5	847.5	847.5	847.5	847.5	848.4	849.3	850.2	851.1	851.0
175°	852.5	852.2	852.2	852.2	852.2	852.2	853.1	854.0	854.9	855.8	855.7
177.5°	855.2	854.9	854.9	854.9	854.9	854.9	855.8	856.7	857.6	858.5	858.4
180°	856.9	856.9	856.9	856.9	856.9	856.9	856.9	856.9	856.9	856.9	856.9



TEST NUMBER: P832432

CATALOG NUMBER: S123RDIP-S775D805U935-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2149.5	2149.5	2149.5	2149.5
2.5°	1909.7	1905.3	1903.6	1901.8
5°	1637.0	1623.3	1620.2	1617.2
7.5°	1405.2	1399.5	1380.5	1361.6
10°	1217.1	1199.4	1191.5	1183.6
12.5°	1059.7	1043.4	1040.8	1038.2
15°	937.7	926.2	922.3	918.3
17.5°	857.5	849.6	844.7	839.9
20°	798.0	792.3	788.8	785.2
22.5°	752.6	748.2	745.6	742.9
25°	709.0	702.4	700.2	698.0
27.5°	667.6	661.8	659.6	657.4
30°	628.8	624.0	620.9	617.8
32.5°	586.5	580.8	579.0	577.2
35°	549.0	545.5	543.8	542.0
37.5°	509.4	505.0	502.3	499.7
40°	475.5	473.3	471.9	470.6
42.5°	441.1	437.1	436.7	436.2
45°	406.7	402.7	401.9	401.0
47.5°	374.5	371.0	370.6	370.1
50°	338.9	334.0	330.5	327.0
52.5°	297.9	293.5	290.4	287.3
55°	260.4	255.6	252.9	250.3
57.5°	232.2	230.0	228.7	227.4
60°	209.3	208.0	207.1	206.2
62.5°	188.2	186.8	186.8	186.8
65°	168.8	167.4	166.1	164.8
67.5°	143.6	141.0	140.6	140.1
70°	113.2	109.3	108.8	108.4
72.5°	88.6	88.1	87.2	86.4
75°	73.1	72.3	72.3	72.3
77.5°	59.0	58.2	58.2	58.2
80°	45.4	44.9	45.4	45.8
82.5°	33.5	33.5	33.0	32.6
85°	21.6	21.2	21.2	21.2
87.5°	10.6	10.6	10.6	10.6
90°	19.3	19.6	19.9	20.2
92.5°	29.8	29.5	29.2	28.9
95°	52.5	52.5	52.5	52.5
97.5°	75.8	75.7	75.5	75.4
100°	101.4	101.7	102.0	102.3
102.5°	130.4	130.2	130.1	129.9
105°	159.3	159.6	159.9	160.2
107.5°	191.6	191.5	191.3	191.2
110°	223.7	223.4	223.1	222.8



TEST NUMBER: P832432

CATALOG NUMBER: S123RDIP-S775D805U935-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
112.5°	256.5	256.5	256.5	256.5
115°	287.2	287.1	286.9	286.8
117.5°	319.1	318.6	318.2	317.7
120°	351.6	351.3	351.0	350.7
122.5°	383.7	383.3	382.8	382.4
125°	415.8	415.2	414.6	414.0
127.5°	447.4	446.8	446.2	445.6
130°	479.7	478.7	477.6	476.6
132.5°	511.2	510.4	509.7	508.9
135°	543.5	543.2	542.9	542.6
137.5°	573.5	573.1	572.6	572.2
140°	604.3	603.2	602.2	601.1
142.5°	633.0	632.3	631.5	630.8
145°	660.8	660.2	659.6	659.0
147.5°	687.3	686.4	685.5	684.6
150°	711.5	710.6	709.7	708.8
152.5°	734.6	733.9	733.2	732.4
155°	756.4	755.4	754.3	753.3
157.5°	775.5	774.6	773.7	772.8
160°	793.4	792.8	792.2	791.6
162.5°	808.9	807.9	806.8	805.8
165°	822.4	821.3	820.3	819.2
167.5°	834.1	833.2	832.3	831.4
170°	843.3	842.2	841.2	840.1
172.5°	850.0	848.9	847.9	846.8
175°	854.7	853.6	852.6	851.6
177.5°	857.4	856.3	855.3	854.2
180°	856.9	856.9	856.9	856.9



TEST NUMBER: P832432

CATALOG NUMBER: S123RDIP-S775D805U935-4F0-1E-UDD-G1

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	12.08	12.92	13.01	13.86	15.07	16.74	17.59	17.67	18.53	19.73
	3H	13.30	14.06	14.24	15.00	16.24	18.24	19.00	19.19	19.95	21.18
	4H	13.68	14.40	14.64	15.35	16.59	18.73	19.45	19.69	20.40	21.64
	6H	13.97	14.62	14.93	15.58	16.83	19.05	19.70	20.01	20.66	21.91
	8H	14.05	14.68	15.03	15.65	16.90	19.13	19.75	20.10	20.72	21.97
	12H	14.11	14.70	15.08	15.67	16.94	19.16	19.75	20.14	20.72	21.99
4H	2H	12.80	13.52	13.76	14.47	15.71	16.74	17.45	17.70	18.40	19.65
	3H	14.17	14.77	15.14	15.75	17.00	18.40	18.99	19.37	19.97	21.23
	4H	14.63	15.17	15.61	16.15	17.43	19.01	19.55	19.99	20.52	21.80
	6H	15.00	15.46	15.99	16.46	17.74	19.45	19.91	20.44	20.91	22.19
	8H	15.12	15.56	16.12	16.55	17.84	19.58	20.01	20.57	21.00	22.29
	12H	15.20	15.59	16.21	16.60	17.90	19.64	20.03	20.65	21.04	22.33
8H	4H	14.95	15.38	15.94	16.37	17.66	18.97	19.41	19.97	20.40	21.69
	6H	15.41	15.76	16.43	16.80	18.09	19.47	19.83	20.49	20.86	22.15
	8H	15.60	15.92	16.63	16.94	18.25	19.66	19.97	20.68	20.99	22.30
	12H	15.74	16.02	16.77	17.03	18.39	19.77	20.05	20.80	21.06	22.42
12H	4H	14.96	15.35	15.97	16.36	17.65	18.93	19.31	19.94	20.32	21.62
	6H	15.47	15.78	16.49	16.80	18.11	19.45	19.76	20.47	20.78	22.09
	8H	15.69	15.96	16.71	16.98	18.33	19.64	19.92	20.67	20.93	22.29