

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: P832264

Luminaire Tested: S123RDIP-S560D585U927-4F0-1E-UDD-G1

Issue Date: 05/03/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P832264  
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-S560D585U927-4F0-1E-UDD-G1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, GRAZE OPTIC  
UPLIGHT 585 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: -

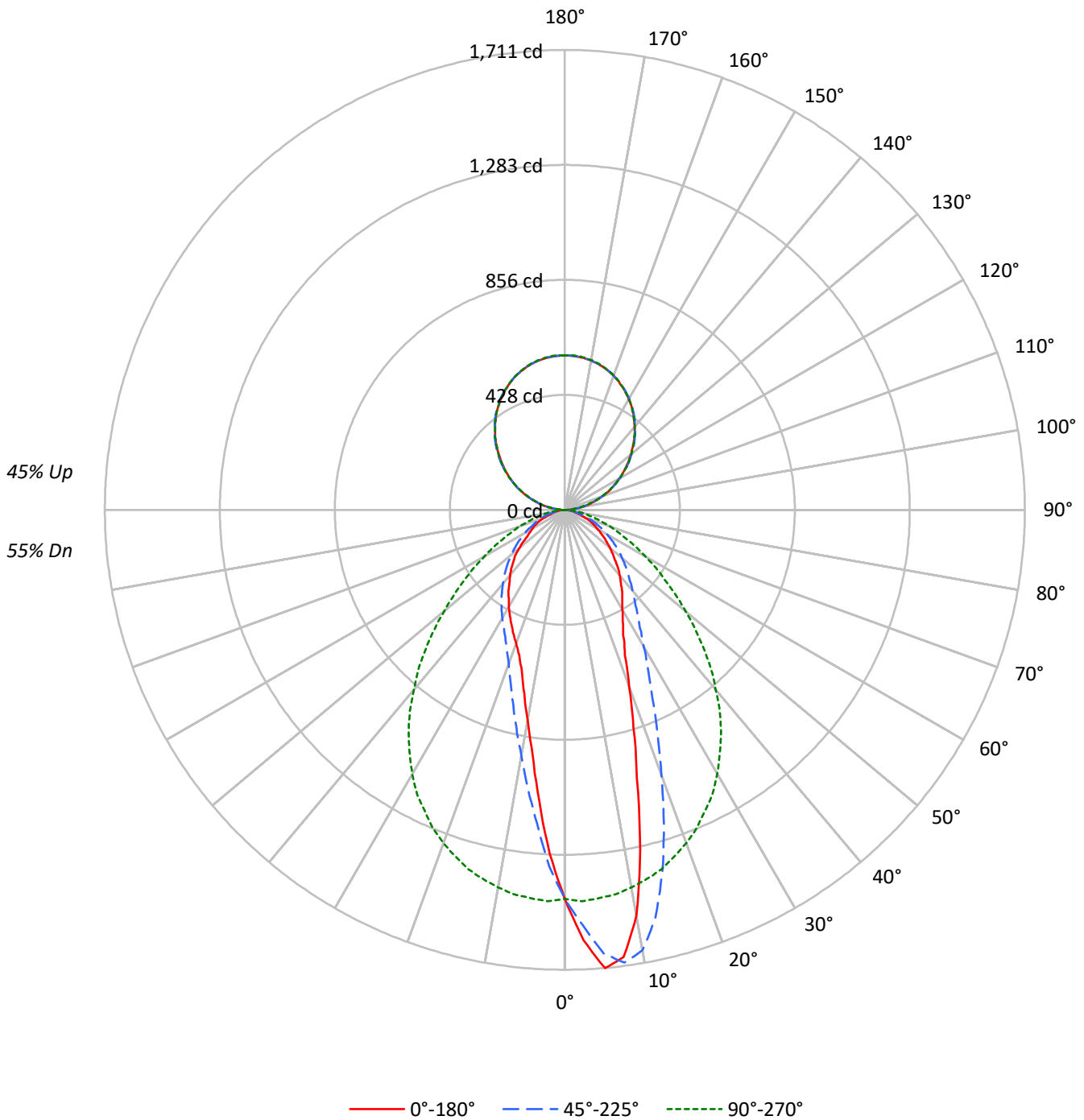
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3513.2 lumens  
Efficiency: N/A  
Efficacy: 101.0 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): 34.8  
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	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	53	49	46	45	42	40	36				
4	78	67	60	54	72	63	57	51	55	50	46	48	44	41	41	38	36	32				
5	72	61	53	47	67	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	43	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	30	26	29	26	24	21				
9	54	42	35	30	50	40	33	29	36	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°	15573	15573	15573	15573	15573
5°	18492	17902	15672	12669	11761
10°	16753	18183	15593	10151	8708
15°	11535	15591	15428	8296	6888
20°	8025	12003	15119	6995	6054
25°	6115	9149	14668	6217	5580
30°	5323	7315	14105	5773	5168
35°	4887	6169	13306	5398	4794
40°	4460	5510	12261	5030	4451
45°	4028	5039	11134	4682	4109
50°	3656	4649	9805	4340	3686
55°	3307	4269	8527	4008	3162
60°	2962	3881	7408	3640	2988
65°	2735	3443	6375	3270	2825
70°	2222	2977	5564	2958	2297
75°	1951	2366	4712	2454	2021
80°	1767	2002	3862	2058	1909
85°	1618	1754	2927	1865	1754

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 80°  
 Vertical Angle: 45°  
 Luminance: 11749 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.9	3.8
10°-20°	305.2	8.7
20°-30°	350.1	10.0
30°-40°	345.1	9.8
40°-50°	304.3	8.7
50°-60°	234.1	6.7
60°-70°	153.9	4.4
70°-80°	74.8	2.1
80°-90°	20.1	0.6
90°-100°	37.0	1.1
100°-110°	112.1	3.2
110°-120°	190.8	5.4
120°-130°	251.0	7.1
130°-140°	282.1	8.0
140°-150°	277.4	7.9
150°-160°	233.5	6.6
160°-170°	155.5	4.4
170°-180°	54.4	1.5
0°-30°	787.2	22.4
0°-40°	1132.3	32.2
0°-60°	1670.7	47.6
0°-90°	1919.5	54.6
90°-120°	339.9	9.7
90°-150°	1150.4	32.7
90°-180°	1594.0	45.4
0°-180°	3513.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1447	1447	1447	1447	1447	
5°	1711	1657	1450	1172	1088	156
15°	1035	1399	1384	744	618	292
25°	515	770	1235	524	470	243
35°	372	470	1013	411	365	232
45°	265	331	731	308	270	205
55°	176	228	454	214	168	158
65°	107	135	250	128	111	105
75°	47	57	113	59	49	50
85°	13	14	24	15	14	14
90°	14	11	0	11	14	7
95°	35	33	27	33	35	35
105°	108	107	102	107	108	114
115°	192	192	192	192	192	191
125°	278	282	281	282	278	249
135°	364	367	365	367	364	280
145°	442	445	442	445	442	276
155°	506	507	506	507	506	233
165°	550	550	552	550	550	155
175°	572	572	574	572	572	54
180°	575	575	575	575	575	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8
2.5°	1603.4	1598.4	1593.3	1591.8	1590.4	1585.6	1580.9	1570.2	1559.5	1548.5	1537.6
5°	1711.4	1712.0	1712.6	1711.1	1709.6	1703.4	1697.1	1684.1	1671.0	1656.8	1642.6
7.5°	1678.2	1687.7	1697.1	1698.9	1700.7	1705.4	1710.2	1707.2	1704.3	1698.9	1693.6
10°	1532.8	1532.2	1531.6	1542.3	1553.0	1584.7	1616.5	1632.8	1649.1	1663.6	1678.2
12.5°	1295.5	1296.4	1297.3	1332.3	1367.3	1397.3	1427.2	1468.8	1510.3	1555.1	1599.9
15°	1035.1	1049.7	1064.2	1095.3	1126.5	1171.6	1216.7	1272.4	1328.2	1399.1	1469.9
17.5°	850.1	856.3	862.5	892.5	922.4	965.1	1007.8	1071.0	1134.2	1225.5	1316.9
20°	700.6	706.2	711.8	733.5	755.1	796.1	837.0	897.2	957.4	1047.9	1138.3
22.5°	584.9	595.9	606.8	621.4	635.9	665.6	695.2	756.6	818.0	900.5	982.9
25°	514.9	519.9	525.0	537.4	549.9	578.4	606.8	647.5	688.1	770.3	852.4
27.5°	467.4	468.9	470.4	479.6	488.8	507.2	525.6	563.2	600.9	668.5	736.2
30°	428.3	431.0	433.6	440.7	447.9	461.2	474.6	501.3	527.9	588.5	649.0
32.5°	398.0	399.5	401.0	406.9	412.9	422.7	432.4	453.5	474.6	520.8	567.1
35°	371.9	372.2	372.5	377.0	381.4	390.9	400.4	417.9	435.4	469.5	503.6
37.5°	342.3	344.4	346.4	349.7	353.0	361.3	369.6	383.8	398.0	426.2	454.4
40°	317.4	319.1	320.9	324.8	328.6	335.2	341.7	354.7	367.8	392.1	416.4
42.5°	292.4	293.6	294.8	298.7	302.5	310.5	318.5	328.9	339.3	359.5	379.6
45°	264.6	267.5	270.5	274.7	278.8	285.6	292.4	303.1	313.8	331.0	348.2
47.5°	241.4	242.9	244.4	248.0	251.5	259.8	268.1	277.6	287.1	303.1	319.1
50°	218.3	218.9	219.5	222.7	226.0	233.4	240.8	251.8	262.8	277.6	292.4
52.5°	196.3	197.8	199.3	202.6	205.8	210.9	215.9	227.2	238.5	253.0	267.5
55°	176.2	177.1	178.0	180.3	182.7	188.6	194.6	204.4	214.1	227.5	240.8
57.5°	157.2	158.4	159.6	161.4	163.1	168.5	173.8	182.4	191.0	204.4	217.7
60°	137.6	139.1	140.6	142.7	144.7	148.9	153.0	160.8	168.5	180.3	192.2
62.5°	123.4	123.7	124.0	125.8	127.5	130.5	133.5	139.7	145.9	157.8	169.7
65°	107.4	108.3	109.1	110.0	110.9	113.3	115.7	121.0	126.4	135.2	144.1
67.5°	90.8	91.6	92.5	94.0	95.5	97.6	99.7	103.2	106.8	115.1	123.4
70°	70.6	70.6	70.6	73.0	75.3	78.9	82.5	85.1	87.8	94.6	101.4
72.5°	57.5	57.8	58.1	58.4	58.7	60.8	62.9	67.3	71.8	75.9	80.1
75°	46.9	47.2	47.5	47.8	48.0	48.6	49.2	50.7	52.2	56.9	61.7
77.5°	37.4	37.7	38.0	38.3	38.6	39.2	39.7	40.3	40.9	42.7	44.5
80°	28.5	28.8	29.1	29.4	29.7	30.0	30.3	30.8	31.4	32.3	33.2
82.5°	20.8	20.8	20.8	20.8	20.8	21.4	21.9	21.9	21.9	22.5	23.1
85°	13.1	13.1	13.1	13.3	13.6	13.6	13.6	13.9	14.2	14.2	14.2
87.5°	5.9	5.6	5.3	5.6	5.9	5.9	5.9	6.2	6.5	6.5	6.5
90°	13.6	13.4	13.2	13.0	12.8	12.5	12.0	11.6	11.2	10.8	9.5
92.5°	19.4	19.6	19.8	20.0	20.2	20.2	19.9	19.6	19.3	19.0	18.4
95°	35.2	35.2	35.2	35.2	35.2	35.0	34.6	34.2	33.8	33.4	32.6
97.5°	50.6	50.7	50.8	50.9	51.0	50.8	50.3	49.8	49.3	48.8	48.2
100°	68.7	68.5	68.3	68.1	67.9	67.6	67.3	67.0	66.7	66.4	65.9
102.5°	87.2	87.3	87.4	87.5	87.6	87.5	87.2	86.9	86.6	86.3	85.6
105°	107.5	107.3	107.1	106.9	106.7	106.6	106.6	106.6	106.6	106.6	105.7
107.5°	128.3	128.4	128.5	128.6	128.7	128.6	128.3	128.0	127.7	127.4	127.0
110°	149.6	149.8	150.0	150.2	150.4	150.3	149.9	149.5	149.1	148.7	148.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	172.2	172.2	172.2	172.2	172.2	171.9	171.4	170.9	170.4	169.9	169.9
115°	192.5	192.6	192.7	192.8	192.9	192.9	192.8	192.7	192.6	192.5	192.7
117.5°	213.3	213.6	213.9	214.2	214.5	214.6	214.6	214.6	214.6	214.6	214.8
120°	235.4	235.6	235.8	236.0	236.2	236.4	236.5	236.6	236.7	236.8	237.3
122.5°	256.7	257.0	257.3	257.6	257.9	258.2	258.5	258.8	259.1	259.4	259.6
125°	277.9	278.3	278.7	279.1	279.5	279.9	280.3	280.7	281.1	281.5	281.7
127.5°	299.1	299.5	299.9	300.3	300.7	301.2	301.8	302.4	303.0	303.6	303.8
130°	319.9	320.6	321.3	322.0	322.7	323.3	323.7	324.1	324.5	324.9	325.2
132.5°	341.6	342.1	342.6	343.1	343.6	344.1	344.6	345.1	345.6	346.1	346.3
135°	364.2	364.4	364.6	364.8	365.0	365.3	365.7	366.1	366.5	366.9	367.0
137.5°	384.1	384.4	384.7	385.0	385.3	385.7	386.2	386.7	387.2	387.7	387.4
140°	403.5	404.2	404.9	405.6	406.3	406.7	406.8	406.9	407.0	407.1	407.0
142.5°	423.4	423.9	424.4	424.9	425.4	425.7	425.8	425.9	426.0	426.1	425.9
145°	442.4	442.8	443.2	443.6	444.0	444.2	444.3	444.4	444.5	444.6	444.3
147.5°	459.5	460.1	460.7	461.3	461.9	462.2	462.2	462.2	462.2	462.2	461.9
150°	475.8	476.4	477.0	477.6	478.2	478.5	478.5	478.5	478.5	478.5	478.3
152.5°	491.6	492.1	492.6	493.1	493.6	493.8	493.6	493.4	493.2	493.0	492.9
155°	505.6	506.3	507.0	507.7	508.4	508.6	508.2	507.8	507.4	507.0	506.9
157.5°	518.7	519.3	519.9	520.5	521.1	521.2	520.8	520.4	520.0	519.6	519.5
160°	531.4	531.8	532.2	532.6	533.0	532.9	532.4	531.9	531.4	530.9	530.9
162.5°	540.9	541.6	542.3	543.0	543.7	543.8	543.3	542.8	542.3	541.8	541.7
165°	549.9	550.6	551.3	552.0	552.7	552.8	552.2	551.6	551.0	550.4	550.4
167.5°	558.0	558.6	559.2	559.8	560.4	560.4	559.8	559.2	558.6	558.0	557.9
170°	563.9	564.6	565.3	566.0	566.7	566.7	566.0	565.3	564.6	563.9	563.9
172.5°	568.4	569.1	569.8	570.5	571.2	571.3	570.7	570.1	569.5	568.9	568.9
175°	571.6	572.3	573.0	573.7	574.4	574.5	573.9	573.3	572.6	572.0	572.0
177.5°	573.4	574.1	574.8	575.5	576.2	576.3	575.7	575.1	574.5	573.9	573.9
180°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8
2.5°	1536.1	1534.6	1520.4	1506.1	1492.2	1478.3	1467.9	1457.5	1440.0	1422.5	1411.5
5°	1631.3	1620.0	1597.5	1574.9	1541.1	1507.3	1478.8	1450.4	1414.2	1378.0	1347.7
7.5°	1684.4	1675.2	1647.9	1620.6	1575.8	1531.0	1486.6	1442.1	1388.7	1335.3	1289.6
10°	1685.9	1693.6	1671.0	1648.5	1598.1	1547.7	1487.1	1426.6	1354.9	1283.1	1224.1
12.5°	1633.1	1666.3	1661.6	1656.8	1605.5	1554.2	1480.6	1407.1	1319.0	1230.9	1157.0
15°	1534.3	1598.7	1617.7	1636.6	1594.2	1551.8	1468.2	1384.5	1281.0	1177.5	1092.7
17.5°	1407.1	1497.2	1547.4	1597.5	1566.6	1535.8	1444.1	1352.5	1235.9	1119.4	1027.1
20°	1256.4	1374.4	1453.0	1531.6	1520.4	1509.1	1414.5	1319.9	1194.1	1068.4	968.4
22.5°	1107.5	1232.1	1340.6	1449.2	1460.8	1472.3	1376.8	1281.3	1143.7	1006.1	904.3
25°	979.1	1105.7	1235.0	1364.4	1390.5	1416.6	1325.8	1235.0	1092.4	949.7	848.6
27.5°	856.6	977.0	1119.4	1261.7	1309.2	1356.6	1273.6	1190.6	1042.0	893.4	792.5
30°	756.6	864.3	1009.6	1155.0	1221.1	1287.2	1211.0	1134.8	987.4	840.0	741.2
32.5°	663.5	759.9	905.8	1051.7	1128.6	1205.4	1139.5	1073.7	931.9	790.1	692.6
35°	589.9	676.2	812.4	948.5	1034.5	1120.6	1066.6	1012.6	874.1	735.6	643.3
37.5°	526.8	599.1	727.0	854.8	946.2	1037.5	992.4	947.3	817.1	686.9	599.7
40°	474.6	532.7	651.6	770.6	860.1	949.7	911.2	872.6	756.0	639.5	557.9
42.5°	429.8	479.9	586.7	693.4	775.6	857.8	832.3	806.8	701.2	595.6	519.9
45°	390.3	432.4	526.5	620.5	696.1	771.8	751.6	731.4	640.4	549.3	479.9
47.5°	355.3	391.5	475.4	559.4	627.3	695.2	676.5	657.9	582.5	507.2	444.0
50°	323.3	354.1	424.1	494.1	555.2	616.3	600.9	585.5	523.2	460.9	406.3
52.5°	293.0	318.5	381.4	444.3	493.5	542.8	530.9	519.0	471.0	423.0	373.4
55°	264.3	287.7	340.8	393.9	436.0	478.1	466.3	454.4	417.0	379.6	336.0
57.5°	238.2	258.6	301.6	344.6	378.2	411.7	406.0	400.4	369.3	338.1	302.2
60°	210.6	229.0	266.0	303.1	330.1	357.1	350.6	344.1	321.8	299.6	268.7
62.5°	186.0	202.3	231.9	261.6	283.5	305.5	300.8	296.0	279.1	262.2	236.7
65°	160.2	176.2	200.2	224.2	241.4	258.6	254.5	250.3	237.6	224.8	204.4
67.5°	136.7	150.1	170.8	191.6	203.2	214.7	212.4	210.0	200.2	190.4	174.4
70°	113.0	124.6	141.8	159.0	167.0	175.0	175.9	176.8	167.9	159.0	147.1
72.5°	89.3	98.5	114.5	130.5	136.7	143.0	142.7	142.4	137.0	131.7	121.0
75°	68.5	75.3	87.8	100.3	105.6	110.9	112.1	113.3	108.3	103.2	97.3
77.5°	49.2	54.0	63.5	73.0	78.9	84.8	85.4	86.0	83.6	81.3	75.6
80°	34.7	36.2	42.1	48.0	54.3	60.5	61.4	62.3	59.9	57.5	54.0
82.5°	24.0	24.9	27.0	29.1	34.1	39.2	40.3	41.5	40.3	39.2	35.3
85°	14.5	14.8	15.7	16.6	19.0	21.4	22.5	23.7	23.1	22.5	20.5
87.5°	6.5	6.5	6.8	7.1	7.7	8.3	9.8	11.3	10.4	9.5	8.6
90°	8.2	6.9	5.6	4.5	3.5	2.5	1.5	0.5	1.5	2.5	3.5
92.5°	17.8	17.2	16.6	16.0	15.4	14.8	14.2	13.6	14.2	14.8	15.4
95°	31.8	31.0	30.2	29.5	28.8	28.1	27.4	26.7	27.4	28.1	28.8
97.5°	47.6	47.0	46.4	45.8	45.3	44.8	44.3	43.8	44.3	44.8	45.3
100°	65.4	64.9	64.4	63.9	63.3	62.7	62.1	61.5	62.1	62.7	63.3
102.5°	84.9	84.2	83.5	83.0	82.7	82.4	82.1	81.8	82.1	82.4	82.7
105°	104.8	103.9	103.0	102.5	102.3	102.1	101.9	101.7	101.9	102.1	102.3
107.5°	126.6	126.2	125.8	125.6	125.5	125.4	125.3	125.2	125.3	125.4	125.5
110°	148.3	148.1	147.9	147.7	147.5	147.3	147.1	146.9	147.1	147.3	147.5





TEST NUMBER: P832264

CATALOG NUMBER: S123RDIP-S560D585U927-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	169.9	169.9	169.9	169.8	169.7	169.6	169.5	169.4	169.5	169.6	169.7
115°	192.9	193.1	193.3	193.2	192.9	192.6	192.3	192.0	192.3	192.6	192.9
117.5°	215.0	215.2	215.4	215.5	215.4	215.3	215.2	215.1	215.2	215.3	215.4
120°	237.8	238.3	238.8	238.7	238.1	237.5	236.9	236.3	236.9	237.5	238.1
122.5°	259.8	260.0	260.2	260.1	259.7	259.3	258.9	258.5	258.9	259.3	259.7
125°	281.9	282.1	282.3	282.3	282.0	281.7	281.4	281.1	281.4	281.7	282.0
127.5°	304.0	304.2	304.4	304.2	303.6	303.0	302.4	301.8	302.4	303.0	303.6
130°	325.5	325.8	326.1	325.8	325.0	324.2	323.4	322.6	323.4	324.2	325.0
132.5°	346.5	346.7	346.9	346.6	345.8	345.0	344.2	343.4	344.2	345.0	345.8
135°	367.1	367.2	367.3	367.1	366.5	365.9	365.2	364.6	365.2	365.9	366.5
137.5°	387.1	386.8	386.5	386.1	385.6	385.1	384.6	384.1	384.6	385.1	385.6
140°	406.9	406.8	406.7	406.4	405.9	405.4	404.9	404.4	404.9	405.4	405.9
142.5°	425.7	425.5	425.3	424.9	424.4	423.9	423.4	422.9	423.4	423.9	424.4
145°	444.0	443.7	443.4	443.2	443.0	442.8	442.6	442.4	442.6	442.8	443.0
147.5°	461.6	461.3	461.0	460.7	460.3	459.9	459.5	459.1	459.5	459.9	460.3
150°	478.1	477.9	477.7	477.5	477.3	477.1	476.9	476.7	476.9	477.1	477.3
152.5°	492.8	492.7	492.6	492.4	492.1	491.8	491.5	491.2	491.5	491.8	492.1
155°	506.8	506.7	506.6	506.5	506.5	506.5	506.5	506.5	506.5	506.5	506.5
157.5°	519.4	519.3	519.2	519.2	519.3	519.4	519.5	519.6	519.5	519.4	519.3
160°	530.9	530.9	530.9	531.0	531.2	531.4	531.6	531.8	531.6	531.4	531.2
162.5°	541.6	541.5	541.4	541.5	541.8	542.1	542.4	542.7	542.4	542.1	541.8
165°	550.4	550.4	550.4	550.5	550.8	551.1	551.4	551.7	551.4	551.1	550.8
167.5°	557.8	557.7	557.6	557.8	558.2	558.6	559.0	559.4	559.0	558.6	558.2
170°	563.9	563.9	563.9	564.1	564.5	564.9	565.3	565.7	565.3	564.9	564.5
172.5°	568.9	568.9	568.9	569.1	569.5	569.9	570.3	570.7	570.3	569.9	569.5
175°	572.0	572.0	572.0	572.2	572.6	573.0	573.5	573.9	573.5	573.0	572.6
177.5°	573.9	573.9	573.9	574.1	574.5	574.9	575.3	575.7	575.3	574.9	574.5
180°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2



TEST NUMBER: P832264

CATALOG NUMBER: S123RDIP-S560D585U927-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8
2.5°	1400.5	1383.6	1366.7	1354.6	1342.4	1327.3	1312.2	1311.6	1311.0	1299.7	1288.4
5°	1317.5	1288.1	1258.8	1230.0	1201.2	1172.5	1143.7	1137.2	1130.6	1120.8	1111.1
7.5°	1243.9	1197.1	1150.2	1113.4	1076.7	1047.9	1019.1	999.5	980.0	964.8	949.7
10°	1165.0	1106.9	1048.8	1004.3	959.8	928.7	897.5	875.0	852.4	841.7	831.1
12.5°	1083.2	1020.0	956.8	913.2	869.6	832.3	794.9	774.4	754.0	739.1	724.3
15°	1007.8	939.9	872.0	825.7	779.5	744.5	709.5	689.0	668.5	653.7	638.9
17.5°	934.9	866.4	797.9	751.0	704.1	672.4	640.7	620.8	600.9	591.7	582.5
20°	868.4	799.3	730.2	686.0	641.8	610.7	579.6	568.9	558.2	549.6	541.0
22.5°	802.6	736.2	669.7	627.3	584.9	562.4	539.8	531.2	522.6	516.1	509.6
25°	747.4	681.3	615.1	578.1	541.0	523.5	506.0	500.4	494.7	488.2	481.7
27.5°	691.7	628.8	565.9	536.3	506.6	492.4	478.1	471.0	463.9	458.5	453.2
30°	642.4	584.3	526.2	501.5	476.9	464.5	452.0	444.3	436.6	431.6	426.5
32.5°	595.0	543.4	491.8	470.7	449.6	437.5	425.3	417.9	410.5	404.6	398.6
35°	551.1	506.3	461.5	442.2	423.0	410.8	398.6	391.2	383.8	377.9	371.9
37.5°	512.5	471.9	431.3	413.2	395.1	384.4	373.7	366.0	358.3	352.1	345.8
40°	476.3	440.5	404.6	387.1	369.6	358.0	346.4	339.6	332.8	327.1	321.5
42.5°	444.3	411.4	378.5	361.3	344.1	333.1	322.1	314.1	306.1	302.8	299.6
45°	410.5	381.4	352.4	335.8	319.1	307.6	296.0	289.2	282.4	279.4	276.4
47.5°	380.8	353.8	326.9	310.5	294.2	283.8	273.5	268.1	262.8	258.6	254.5
50°	351.8	325.7	299.6	283.8	268.1	259.2	250.3	243.8	237.3	234.3	231.3
52.5°	323.9	300.2	276.4	260.4	244.4	235.8	227.2	221.6	215.9	209.7	203.5
55°	292.4	271.7	250.9	236.7	222.4	213.6	204.7	198.1	191.6	185.1	178.6
57.5°	266.3	245.9	225.4	212.7	199.9	191.3	182.7	175.6	168.5	163.1	157.8
60°	237.9	220.1	202.3	189.8	177.4	169.1	160.8	153.9	147.1	144.4	141.8
62.5°	211.2	194.6	178.0	167.0	156.0	148.0	140.0	135.5	131.1	129.3	127.5
65°	183.9	169.7	155.4	145.3	135.2	128.4	121.6	119.5	117.5	116.0	114.5
67.5°	158.4	146.2	134.1	125.2	116.3	111.5	106.8	104.4	102.0	100.3	98.5
70°	135.2	124.6	113.9	106.2	98.5	94.0	89.6	87.5	85.4	82.2	78.9
72.5°	110.3	102.0	93.7	87.8	81.9	78.0	74.1	70.0	65.8	62.9	59.9
75°	91.4	83.0	74.7	69.1	63.5	59.0	54.6	53.1	51.6	50.7	49.8
77.5°	70.0	62.9	55.8	51.3	46.9	44.8	42.7	41.8	40.9	40.6	40.3
80°	50.4	44.5	38.6	36.2	33.8	33.2	32.6	32.0	31.4	31.1	30.8
82.5°	31.4	28.5	25.5	24.9	24.3	24.0	23.7	23.4	23.1	22.8	22.5
85°	18.4	17.2	16.0	15.7	15.4	15.1	14.8	14.8	14.8	14.8	14.8
87.5°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.4	7.1
90°	4.5	5.6	6.9	8.2	9.5	10.8	11.2	11.6	12.0	12.5	12.8
92.5°	16.0	16.6	17.2	17.8	18.4	19.0	19.3	19.6	19.9	20.2	20.2
95°	29.5	30.2	31.0	31.8	32.6	33.4	33.8	34.2	34.6	35.0	35.2
97.5°	45.8	46.4	47.0	47.6	48.2	48.8	49.3	49.8	50.3	50.8	51.0
100°	63.9	64.4	64.9	65.4	65.9	66.4	66.7	67.0	67.3	67.6	67.9
102.5°	83.0	83.5	84.2	84.9	85.6	86.3	86.6	86.9	87.2	87.5	87.6
105°	102.5	103.0	103.9	104.8	105.7	106.6	106.6	106.6	106.6	106.6	106.7
107.5°	125.6	125.8	126.2	126.6	127.0	127.4	127.7	128.0	128.3	128.6	128.7
110°	147.7	147.9	148.1	148.3	148.5	148.7	149.1	149.5	149.9	150.3	150.4



TEST NUMBER: P832264

CATALOG NUMBER: S123RDIP-S560D585U927-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	169.8	169.9	169.9	169.9	169.9	169.9	170.4	170.9	171.4	171.9	172.2
115°	193.2	193.3	193.1	192.9	192.7	192.5	192.6	192.7	192.8	192.9	192.9
117.5°	215.5	215.4	215.2	215.0	214.8	214.6	214.6	214.6	214.6	214.6	214.5
120°	238.7	238.8	238.3	237.8	237.3	236.8	236.7	236.6	236.5	236.4	236.2
122.5°	260.1	260.2	260.0	259.8	259.6	259.4	259.1	258.8	258.5	258.2	257.9
125°	282.3	282.3	282.1	281.9	281.7	281.5	281.1	280.7	280.3	279.9	279.5
127.5°	304.2	304.4	304.2	304.0	303.8	303.6	303.0	302.4	301.8	301.2	300.7
130°	325.8	326.1	325.8	325.5	325.2	324.9	324.5	324.1	323.7	323.3	322.7
132.5°	346.6	346.9	346.7	346.5	346.3	346.1	345.6	345.1	344.6	344.1	343.6
135°	367.1	367.3	367.2	367.1	367.0	366.9	366.5	366.1	365.7	365.3	365.0
137.5°	386.1	386.5	386.8	387.1	387.4	387.7	387.2	386.7	386.2	385.7	385.3
140°	406.4	406.7	406.8	406.9	407.0	407.1	407.0	406.9	406.8	406.7	406.3
142.5°	424.9	425.3	425.5	425.7	425.9	426.1	426.0	425.9	425.8	425.7	425.4
145°	443.2	443.4	443.7	444.0	444.3	444.6	444.5	444.4	444.3	444.2	444.0
147.5°	460.7	461.0	461.3	461.6	461.9	462.2	462.2	462.2	462.2	462.2	461.9
150°	477.5	477.7	477.9	478.1	478.3	478.5	478.5	478.5	478.5	478.5	478.2
152.5°	492.4	492.6	492.7	492.8	492.9	493.0	493.2	493.4	493.6	493.8	493.6
155°	506.5	506.6	506.7	506.8	506.9	507.0	507.4	507.8	508.2	508.6	508.4
157.5°	519.2	519.2	519.3	519.4	519.5	519.6	520.0	520.4	520.8	521.2	521.1
160°	531.0	530.9	530.9	530.9	530.9	530.9	531.4	531.9	532.4	532.9	533.0
162.5°	541.5	541.4	541.5	541.6	541.7	541.8	542.3	542.8	543.3	543.8	543.7
165°	550.5	550.4	550.4	550.4	550.4	550.4	551.0	551.6	552.2	552.8	552.7
167.5°	557.8	557.6	557.7	557.8	557.9	558.0	558.6	559.2	559.8	560.4	560.4
170°	564.1	563.9	563.9	563.9	563.9	563.9	564.6	565.3	566.0	566.7	566.7
172.5°	569.1	568.9	568.9	568.9	568.9	568.9	569.5	570.1	570.7	571.3	571.2
175°	572.2	572.0	572.0	572.0	572.0	572.0	572.6	573.3	573.9	574.5	574.4
177.5°	574.1	573.9	573.9	573.9	573.9	573.9	574.5	575.1	575.7	576.3	576.2
180°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2

TEST NUMBER: P832264

CATALOG NUMBER: S123RDIP-S560D585U927-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1446.8	1446.8	1446.8	1446.8
2.5°	1285.5	1282.5	1281.3	1280.1
5°	1101.9	1092.7	1090.6	1088.5
7.5°	945.9	942.0	929.2	916.5
10°	819.2	807.3	802.0	796.7
12.5°	713.3	702.3	700.6	698.8
15°	631.2	623.5	620.8	618.1
17.5°	577.2	571.8	568.6	565.3
20°	537.1	533.3	530.9	528.5
22.5°	506.6	503.6	501.8	500.1
25°	477.2	472.8	471.3	469.8
27.5°	449.3	445.5	444.0	442.5
30°	423.2	420.0	417.9	415.8
32.5°	394.8	390.9	389.7	388.5
35°	369.6	367.2	366.0	364.8
37.5°	342.9	339.9	338.1	336.3
40°	320.0	318.5	317.7	316.8
42.5°	296.9	294.2	293.9	293.6
45°	273.8	271.1	270.5	269.9
47.5°	252.1	249.7	249.4	249.1
50°	228.1	224.8	222.4	220.1
52.5°	200.5	197.5	195.5	193.4
55°	175.3	172.0	170.2	168.5
57.5°	156.3	154.8	153.9	153.0
60°	140.9	140.0	139.4	138.8
62.5°	126.6	125.8	125.8	125.8
65°	113.6	112.7	111.8	110.9
67.5°	96.7	94.9	94.6	94.3
70°	76.2	73.6	73.3	73.0
72.5°	59.6	59.3	58.7	58.1
75°	49.2	48.6	48.6	48.6
77.5°	39.7	39.2	39.2	39.2
80°	30.5	30.3	30.5	30.8
82.5°	22.5	22.5	22.2	21.9
85°	14.5	14.2	14.2	14.2
87.5°	7.1	7.1	7.1	7.1
90°	13.0	13.2	13.4	13.6
92.5°	20.0	19.8	19.6	19.4
95°	35.2	35.2	35.2	35.2
97.5°	50.9	50.8	50.7	50.6
100°	68.1	68.3	68.5	68.7
102.5°	87.5	87.4	87.3	87.2
105°	106.9	107.1	107.3	107.5
107.5°	128.6	128.5	128.4	128.3
110°	150.2	150.0	149.8	149.6



TEST NUMBER: P832264

CATALOG NUMBER: S123RDIP-S560D585U927-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
112.5°	172.2	172.2	172.2	172.2
115°	192.8	192.7	192.6	192.5
117.5°	214.2	213.9	213.6	213.3
120°	236.0	235.8	235.6	235.4
122.5°	257.6	257.3	257.0	256.7
125°	279.1	278.7	278.3	277.9
127.5°	300.3	299.9	299.5	299.1
130°	322.0	321.3	320.6	319.9
132.5°	343.1	342.6	342.1	341.6
135°	364.8	364.6	364.4	364.2
137.5°	385.0	384.7	384.4	384.1
140°	405.6	404.9	404.2	403.5
142.5°	424.9	424.4	423.9	423.4
145°	443.6	443.2	442.8	442.4
147.5°	461.3	460.7	460.1	459.5
150°	477.6	477.0	476.4	475.8
152.5°	493.1	492.6	492.1	491.6
155°	507.7	507.0	506.3	505.6
157.5°	520.5	519.9	519.3	518.7
160°	532.6	532.2	531.8	531.4
162.5°	543.0	542.3	541.6	540.9
165°	552.0	551.3	550.6	549.9
167.5°	559.8	559.2	558.6	558.0
170°	566.0	565.3	564.6	563.9
172.5°	570.5	569.8	569.1	568.4
175°	573.7	573.0	572.3	571.6
177.5°	575.5	574.8	574.1	573.4
180°	575.2	575.2	575.2	575.2



TEST NUMBER: P832264

CATALOG NUMBER: S123RDIP-S560D585U927-4F0-1E-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	10.71	11.55	11.64	12.49	13.70	15.37	16.22	16.30	17.16	18.36
	3H	11.93	12.69	12.87	13.63	14.87	16.87	17.63	17.82	18.58	19.81
	4H	12.32	13.03	13.27	13.98	15.22	17.37	18.08	18.32	19.03	20.27
	6H	12.60	13.25	13.56	14.21	15.47	17.68	18.33	18.64	19.29	20.54
	8H	12.69	13.31	13.66	14.28	15.53	17.76	18.38	18.73	19.35	20.61
	12H	12.74	13.33	13.72	14.30	15.57	17.79	18.38	18.77	19.35	20.62
4H	2H	11.43	12.15	12.40	13.10	14.34	15.37	16.08	16.33	17.03	18.28
	3H	12.81	13.40	13.78	14.38	15.63	17.03	17.62	18.00	18.60	19.86
	4H	13.26	13.80	14.24	14.78	16.06	17.64	18.18	18.62	19.15	20.43
	6H	13.63	14.09	14.62	15.09	16.37	18.08	18.54	19.07	19.54	20.82
	8H	13.76	14.19	14.75	15.18	16.47	18.21	18.64	19.20	19.63	20.92
	12H	13.83	14.22	14.84	15.23	16.53	18.27	18.66	19.28	19.67	20.97
8H	4H	13.58	14.01	14.57	15.00	16.29	17.61	18.04	18.60	19.03	20.32
	6H	14.04	14.40	15.06	15.43	16.72	18.10	18.46	19.12	19.49	20.78
	8H	14.24	14.55	15.26	15.57	16.88	18.29	18.60	19.31	19.62	20.93
	12H	14.38	14.65	15.40	15.67	17.02	18.41	18.68	19.43	19.70	21.05
12H	4H	13.59	13.98	14.60	14.99	16.28	17.56	17.95	18.57	18.95	20.25
	6H	14.10	14.41	15.13	15.44	16.75	18.08	18.39	19.10	19.41	20.72
	8H	14.32	14.60	15.35	15.61	16.97	18.27	18.55	19.30	19.56	20.92