

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: P242312

Luminaire Tested: S122DRP-S865D935-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DRP-S865D935-X4F0-XX-UDD-A-W
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

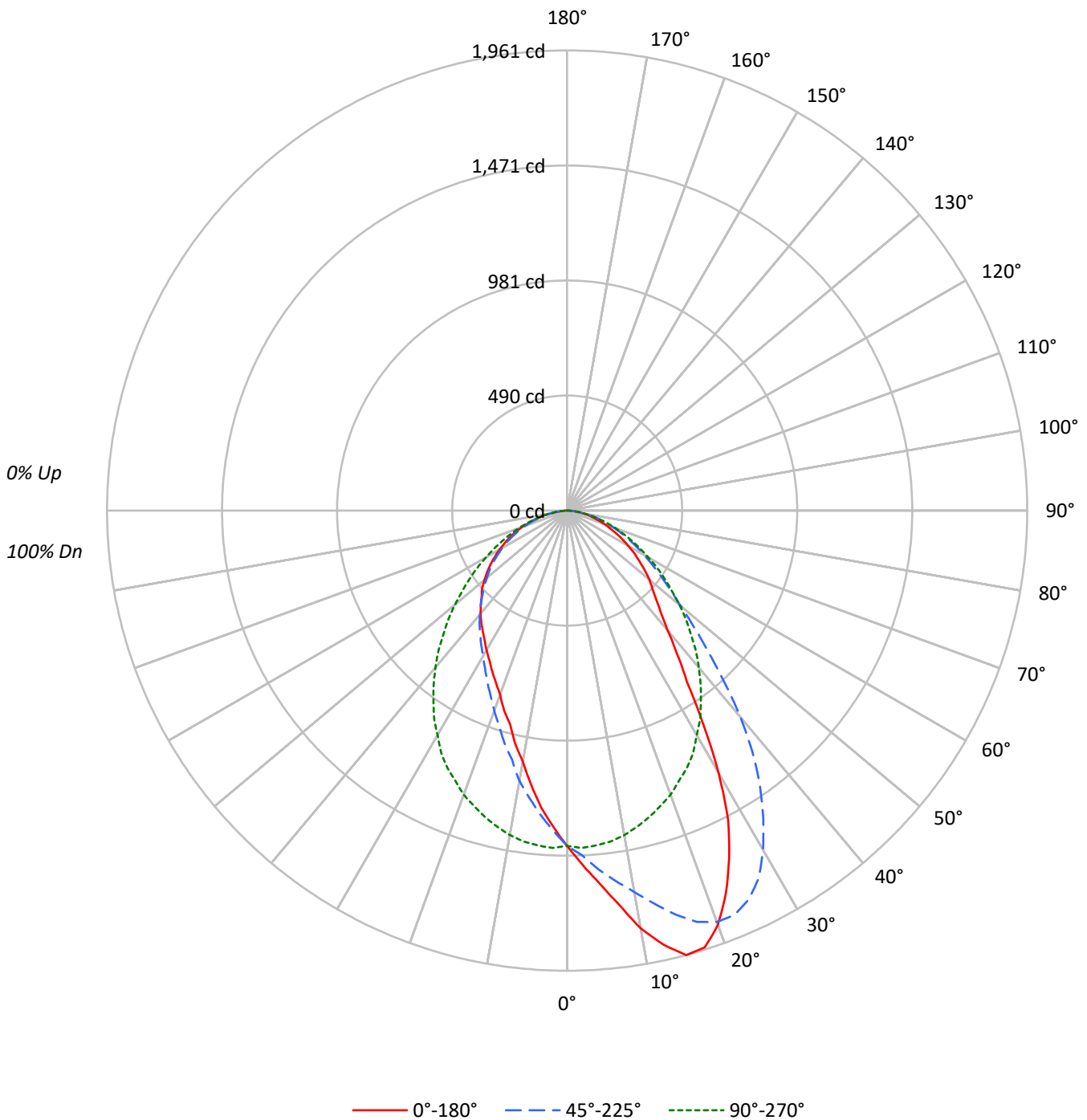
Lumens per Lamp: N/A
Luminaire Lumens: 3151.7 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.23
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (A_{in}): 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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64					64			
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	58	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	74	61	53	47	72	60	52	46	58	51	46	57	51	46	55	50	45	43					43			
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35					35			
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32					32			
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	27212	27212	27212	27212	27212
5°	30509	29363	27390	24881	24272
10°	34960	31923	27165	22630	21005
15°	38674	35134	26667	20280	18558
20°	38086	37818	26132	18407	16917
25°	34341	38450	25422	16906	15878
30°	28379	36724	24284	15735	15119
35°	20684	33321	23095	15014	14580
40°	16520	28575	21692	14389	14280
45°	14436	22851	20071	13754	13873
50°	13569	18645	18500	13228	13602
55°	12510	16209	16903	12745	13237
60°	11463	14431	15208	12175	12674
65°	10443	13043	13683	11434	12124
70°	9479	11651	12202	10548	11317
75°	8405	10303	10546	9457	10024
80°	7229	8731	8731	7766	8073
85°	6469	7081	6469	5398	4808

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 65°
 Vertical Angle: 45°
 Luminance: 35008 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.1	4.3
10°-20°	396.0	12.6
20°-30°	574.8	18.2
30°-40°	605.9	19.2
40°-50°	536.1	17.0
50°-60°	428.0	13.6
60°-70°	290.7	9.2
70°-80°	148.8	4.7
80°-90°	35.2	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°	1106.9	35.1
0°-40°	1712.9	54.3
0°-60°	2677.0	84.9
0°-90°	3151.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3151.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1429	1429	1429	1429	1429	
5°	1596	1536	1432	1301	1269	159
15°	1961	1782	1352	1028	941	543
25°	1634	1830	1210	804	756	741
35°	890	1433	993	646	627	576
45°	536	848	745	511	515	420
55°	377	488	509	384	399	338
65°	232	289	304	254	269	230
75°	114	140	143	128	136	122
85°	30	32	30	25	22	34
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°	1428.6	1428.6	1428.6	1428.6	1428.6	1428.6	1428.6	1428.6	1428.6	1428.6	1428.6
2.5°	1511.0	1511.5	1512.6	1503.9	1502.8	1502.8	1495.1	1488.5	1480.8	1470.4	1471.5
5°	1595.6	1601.6	1603.8	1597.2	1587.3	1586.2	1576.9	1561.5	1547.2	1535.7	1527.5
7.5°	1693.3	1695.5	1691.1	1683.4	1676.8	1664.2	1648.8	1634.0	1612.0	1592.3	1578.0
10°	1807.5	1810.8	1801.4	1788.8	1778.4	1763.0	1737.8	1712.0	1680.7	1650.5	1626.3
12.5°	1894.2	1903.6	1890.9	1892.0	1872.3	1849.8	1818.5	1808.6	1761.4	1716.3	1690.0
15°	1961.2	1960.7	1961.8	1951.3	1938.2	1934.9	1903.0	1868.4	1806.4	1781.7	1738.9
17.5°	1951.3	1959.0	1963.4	1960.1	1957.9	1953.0	1939.3	1913.5	1879.4	1837.7	1786.6
20°	1878.9	1889.8	1891.5	1904.1	1911.3	1920.6	1924.4	1918.4	1899.2	1865.7	1822.9
22.5°	1766.9	1768.0	1774.0	1795.4	1813.0	1839.9	1854.2	1881.1	1876.7	1864.6	1830.5
25°	1634.0	1628.5	1647.7	1657.6	1693.3	1730.6	1757.5	1787.2	1813.5	1829.5	1819.0
27.5°	1486.8	1475.3	1504.4	1530.2	1555.5	1591.7	1632.3	1680.7	1717.4	1767.4	1779.5
30°	1290.3	1295.2	1322.7	1350.7	1394.6	1451.7	1498.9	1553.3	1612.0	1669.7	1709.8
32.5°	1078.3	1100.9	1115.7	1162.3	1199.7	1265.0	1339.7	1411.1	1487.9	1555.5	1623.0
35°	889.5	911.4	935.6	966.9	1021.2	1084.4	1151.9	1243.6	1343.5	1433.0	1506.6
37.5°	769.8	765.9	780.8	803.8	850.5	904.8	985.0	1078.3	1198.0	1297.4	1396.2
40°	664.4	662.2	672.0	692.9	726.4	763.7	831.8	911.4	1020.7	1149.2	1272.7
42.5°	591.9	594.1	598.5	611.6	632.0	661.1	707.7	772.5	870.3	989.4	1124.5
45°	535.9	539.7	545.8	552.9	566.1	591.3	619.9	668.2	747.3	848.3	979.0
47.5°	492.0	493.1	499.6	506.2	513.9	529.3	554.5	585.3	645.7	731.9	848.8
50°	457.9	454.1	458.5	463.4	471.6	481.5	496.9	525.4	562.8	629.2	723.1
52.5°	416.2	417.3	421.1	422.2	429.4	439.2	453.0	470.5	503.5	551.8	624.8
55°	376.7	379.4	381.6	384.9	391.5	398.6	409.6	422.8	449.1	488.1	545.2
57.5°	339.3	340.4	342.1	349.2	353.0	359.6	370.6	382.7	400.3	430.5	475.5
60°	300.9	300.9	305.3	308.0	313.5	320.1	328.3	339.9	355.2	378.8	413.4
62.5°	265.7	265.2	266.3	271.2	275.1	281.1	289.4	298.7	313.0	333.3	360.2
65°	231.7	230.6	233.9	235.0	239.4	245.4	252.0	262.4	274.0	289.4	314.6
67.5°	197.7	199.3	201.5	203.7	205.9	213.0	217.4	225.1	235.0	248.2	265.7
70°	170.2	170.2	170.2	171.9	175.1	178.4	182.8	188.9	198.2	209.2	224.6
72.5°	139.5	141.7	143.9	142.2	146.6	148.2	153.7	156.5	165.3	171.3	184.5
75°	114.2	114.2	114.2	116.9	118.6	120.2	123.5	126.8	131.2	140.0	147.1
77.5°	90.0	89.5	90.0	90.6	92.8	95.0	96.1	98.8	103.2	107.6	114.2
80°	65.9	67.0	67.5	68.6	68.6	69.7	70.3	74.1	76.9	79.6	83.5
82.5°	47.2	47.2	47.2	47.2	47.8	48.3	50.0	50.5	51.1	53.3	56.0
85°	29.6	29.1	29.1	30.2	29.6	29.6	30.7	31.8	31.8	32.4	34.0
87.5°	14.3	14.3	14.8	14.3	14.3	14.8	14.8	14.3	14.8	15.4	15.9
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°	1428.6	1428.6	1428.6	1428.6	1428.6	1428.6	1428.6	1428.6	1428.6	1428.6	1428.6
2.5°	1475.3	1470.9	1468.2	1458.3	1449.5	1440.7	1438.0	1439.1	1427.0	1415.5	1410.5
5°	1523.1	1512.1	1501.7	1486.8	1469.3	1450.1	1440.2	1432.5	1413.3	1392.4	1380.3
7.5°	1566.5	1552.2	1533.5	1507.2	1483.0	1454.4	1436.9	1422.1	1395.1	1367.1	1350.1
10°	1605.4	1584.0	1558.2	1524.2	1492.9	1456.1	1430.3	1404.5	1371.5	1336.4	1314.4
12.5°	1638.9	1608.2	1582.9	1536.8	1498.4	1450.1	1418.2	1379.2	1344.1	1300.7	1279.3
15°	1696.0	1642.8	1594.5	1545.0	1499.5	1435.2	1401.2	1352.3	1306.8	1255.1	1230.4
17.5°	1738.3	1680.7	1606.0	1546.1	1495.6	1427.0	1378.1	1319.9	1268.3	1211.2	1178.3
20°	1773.4	1704.8	1623.0	1548.3	1484.6	1403.4	1349.0	1289.2	1226.0	1159.6	1123.4
22.5°	1794.3	1721.3	1640.6	1540.1	1462.7	1384.2	1312.2	1245.3	1181.0	1108.0	1069.6
25°	1795.4	1729.5	1643.9	1536.3	1445.1	1355.6	1273.3	1209.6	1132.2	1065.2	1009.7
27.5°	1777.3	1725.1	1642.2	1528.6	1424.8	1322.1	1232.6	1162.9	1081.1	1008.6	953.2
30°	1737.2	1709.8	1629.6	1515.4	1399.5	1287.0	1186.0	1104.1	1022.9	949.3	892.2
32.5°	1675.2	1674.6	1606.5	1496.7	1372.6	1242.5	1137.1	1054.2	961.9	890.0	836.2
35°	1590.1	1616.4	1571.9	1467.1	1337.5	1200.8	1087.7	993.2	899.9	830.7	779.7
37.5°	1481.9	1542.8	1525.3	1427.5	1292.5	1156.3	1033.3	934.5	845.0	773.6	723.7
40°	1369.3	1452.8	1464.9	1380.9	1244.2	1103.1	970.7	872.4	785.7	722.0	671.5
42.5°	1248.6	1349.6	1388.0	1324.9	1191.4	1047.0	914.7	812.1	726.4	664.9	621.5
45°	1110.7	1239.8	1299.6	1261.2	1131.6	984.5	848.3	745.1	667.1	608.9	574.3
47.5°	986.1	1126.1	1202.4	1184.3	1067.4	921.3	786.8	686.3	608.9	561.7	529.3
50°	852.1	997.1	1094.3	1098.7	997.1	852.7	717.6	624.3	554.5	511.2	485.9
52.5°	735.7	872.4	980.6	1008.6	918.6	781.3	655.6	562.8	503.5	464.5	442.5
55°	637.5	754.4	871.9	914.7	840.6	708.8	590.8	509.0	451.3	423.9	404.1
57.5°	544.1	646.8	758.2	803.3	756.0	640.2	526.0	454.1	405.2	380.5	365.1
60°	473.3	550.2	646.8	703.3	663.8	563.3	466.7	399.2	360.7	339.3	325.0
62.5°	407.4	473.3	551.3	601.8	584.7	491.4	407.4	349.7	317.9	298.1	288.8
65°	347.0	400.8	464.0	511.7	497.4	425.5	354.7	303.6	277.3	261.4	253.1
67.5°	295.4	336.6	381.6	425.5	413.4	360.2	300.3	259.2	238.8	224.6	219.6
70°	247.1	276.7	315.7	349.2	339.9	298.1	253.1	219.1	202.1	190.5	185.6
72.5°	201.0	224.0	251.5	277.3	271.8	238.8	203.2	179.5	167.5	157.0	153.2
75°	158.7	177.3	195.5	213.6	211.9	185.0	163.1	143.3	132.9	124.6	123.0
77.5°	124.1	135.6	148.8	160.3	157.6	140.0	121.9	109.8	101.6	96.1	95.5
80°	89.5	95.5	104.3	112.0	108.2	101.6	87.8	79.6	74.1	68.6	66.4
82.5°	58.7	64.8	69.2	72.5	69.7	63.7	56.6	51.6	48.9	45.6	45.0
85°	34.0	37.3	39.5	40.6	39.5	35.7	31.8	29.6	26.9	25.3	24.7
87.5°	16.5	16.5	16.5	17.6	15.9	15.9	13.7	12.1	11.5	11.0	9.9
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°	1428.6	1428.6	1428.6	1428.6	1428.6	1428.6	1428.6	1428.6	1428.6	1428.6	1428.6
2.5°	1405.0	1401.7	1390.2	1384.2	1374.3	1365.0	1358.9	1361.7	1363.9	1362.8	1361.1
5°	1369.3	1358.9	1343.0	1329.3	1319.4	1301.3	1293.6	1289.7	1286.4	1282.6	1278.7
7.5°	1329.8	1315.0	1292.5	1274.9	1257.3	1234.3	1222.7	1216.2	1209.0	1200.8	1193.1
10°	1287.0	1263.9	1239.8	1212.3	1190.4	1170.0	1151.9	1139.8	1128.9	1118.4	1110.7
12.5°	1242.0	1214.5	1183.2	1143.1	1118.4	1087.1	1088.2	1064.6	1046.0	1040.5	1031.1
15°	1193.6	1156.3	1118.4	1074.0	1054.7	1028.4	1011.9	995.4	980.6	970.2	967.4
17.5°	1140.9	1091.0	1054.2	1021.2	989.9	963.0	948.8	935.6	923.0	907.6	907.0
20°	1078.9	1037.2	996.0	968.0	935.6	908.1	889.5	876.3	865.9	857.6	850.5
22.5°	1020.1	973.5	936.7	905.4	873.5	852.7	839.0	826.3	818.1	808.8	802.2
25°	956.5	920.8	879.6	845.0	818.6	804.4	792.3	781.3	775.8	769.8	762.1
27.5°	902.1	862.6	821.9	795.0	770.9	758.2	748.9	740.7	735.7	731.9	726.9
30°	843.9	803.8	773.6	747.3	728.0	715.4	709.9	705.5	699.5	697.3	695.1
32.5°	787.9	752.8	728.0	706.1	688.0	680.8	675.9	672.0	667.7	665.5	660.5
35°	735.7	705.5	680.3	667.7	652.8	645.7	641.8	636.4	632.0	629.8	629.2
37.5°	685.8	658.3	641.3	624.3	617.1	613.3	607.8	604.0	602.3	601.8	601.2
40°	637.5	616.0	601.2	588.0	585.3	578.7	574.3	571.0	571.0	571.6	571.0
42.5°	593.5	574.9	562.2	551.3	548.0	544.7	540.3	540.8	541.9	544.1	541.9
45°	549.1	535.3	526.0	520.5	514.5	510.6	510.1	511.7	512.3	512.8	514.5
47.5°	507.3	498.5	489.8	483.2	480.4	479.9	478.8	481.5	484.3	484.8	487.6
50°	471.1	460.7	453.5	449.7	447.5	446.4	447.5	450.8	453.0	455.7	457.4
52.5°	430.5	423.9	419.5	416.7	416.2	417.3	417.3	421.1	425.0	425.5	426.1
55°	393.7	388.2	387.1	382.1	384.3	383.8	386.5	388.7	392.0	395.3	395.9
57.5°	356.3	351.4	348.1	348.7	349.2	351.4	353.6	357.4	361.3	365.1	365.1
60°	319.0	316.8	315.2	315.2	316.3	319.6	322.3	326.1	328.3	330.5	332.2
62.5°	285.0	282.8	281.1	282.2	285.5	287.2	290.5	292.1	294.3	296.5	297.0
65°	248.7	247.6	249.3	250.4	250.9	253.7	257.5	259.2	261.4	262.4	266.3
67.5°	215.8	215.8	215.2	216.9	220.2	220.7	224.6	229.0	229.0	231.2	233.9
70°	182.3	183.4	184.5	185.6	188.3	189.4	192.2	193.8	196.0	197.7	199.3
72.5°	151.5	151.5	152.6	152.1	154.3	157.0	159.2	160.9	163.1	165.3	166.9
75°	121.3	121.3	122.4	123.0	125.7	128.5	127.9	129.0	131.2	133.4	134.5
77.5°	93.9	92.8	93.9	94.4	95.5	97.7	98.3	99.9	102.7	102.1	103.2
80°	67.5	65.9	67.5	68.1	68.1	70.8	70.8	71.9	73.6	71.9	73.6
82.5°	43.4	42.8	43.9	43.9	45.0	44.5	45.6	45.6	47.2	46.7	47.2
85°	24.2	23.6	24.2	23.6	24.2	24.7	24.7	24.2	24.2	25.3	23.6
87.5°	9.3	8.8	8.2	8.2	7.7	7.1	6.6	6.6	6.6	5.5	5.5
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: P242312

CATALOG NUMBER: S122DRP-S865D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1428.6	1428.6	1428.6	1428.6
2.5°	1355.6	1354.5	1354.5	1349.6
5°	1271.1	1269.4	1266.7	1269.4
7.5°	1190.9	1183.8	1182.7	1177.2
10°	1101.4	1097.0	1096.5	1086.0
12.5°	1033.3	1021.2	1024.0	1019.0
15°	952.6	952.6	950.4	941.1
17.5°	895.0	894.4	889.5	892.8
20°	844.4	841.2	834.6	834.6
22.5°	796.7	797.2	790.1	792.8
25°	761.5	757.1	753.9	755.5
27.5°	725.3	723.7	723.1	718.2
30°	694.6	689.1	690.2	687.4
32.5°	659.4	658.3	656.7	654.5
35°	628.1	628.7	625.9	627.0
37.5°	600.1	602.3	600.7	600.7
40°	572.7	572.7	572.7	574.3
42.5°	546.3	545.2	544.1	543.6
45°	515.6	517.2	517.8	515.0
47.5°	488.7	489.2	488.7	492.0
50°	460.1	459.0	460.1	459.0
52.5°	429.9	430.5	429.4	429.4
55°	398.1	399.2	398.6	398.6
57.5°	365.7	366.2	367.3	364.6
60°	331.6	334.4	333.8	332.7
62.5°	300.3	300.9	300.9	300.9
65°	267.9	269.0	267.4	269.0
67.5°	232.8	233.3	234.4	235.0
70°	200.4	199.9	201.5	203.2
72.5°	166.4	168.0	166.9	168.0
75°	133.4	135.1	134.5	136.2
77.5°	102.1	102.7	102.7	103.2
80°	73.6	72.5	71.4	73.6
82.5°	45.6	46.7	45.6	45.0
85°	23.6	23.1	22.0	22.0
87.5°	5.5	4.9	4.9	4.4
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242312
 CATALOG NUMBER: S122DRP-S865D935-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	19.77	21.29	20.14	21.60	21.92	23.03	24.54	23.39	24.86	25.17
	3H	21.18	22.54	21.56	22.87	23.23	24.04	25.40	24.41	25.73	26.09
	4H	21.68	22.96	22.08	23.31	23.69	24.36	25.63	24.76	25.98	26.36
	6H	22.04	23.22	22.45	23.59	23.98	24.55	25.73	24.96	26.10	26.49
	8H	22.15	23.27	22.58	23.66	24.06	24.59	25.72	25.02	26.11	26.51
	12H	22.22	23.30	22.65	23.68	24.11	24.61	25.69	25.04	26.07	26.50
4H	2H	20.63	21.91	21.03	22.26	22.64	23.24	24.51	23.64	24.86	25.24
	3H	22.19	23.25	22.60	23.65	24.05	24.58	25.64	24.99	26.04	26.44
	4H	22.78	23.73	23.21	24.15	24.59	25.09	26.04	25.52	26.46	26.89
	6H	23.23	24.06	23.68	24.50	24.96	25.42	26.25	25.88	26.69	27.15
	8H	23.37	24.14	23.83	24.59	25.05	25.49	26.27	25.96	26.71	27.18
	12H	23.47	24.16	23.95	24.64	25.11	25.54	26.23	26.02	26.71	27.18
8H	4H	23.21	23.99	23.68	24.43	24.90	25.21	25.99	25.68	26.43	26.90
	6H	23.75	24.39	24.24	24.88	25.35	25.65	26.29	26.15	26.78	27.26
	8H	23.94	24.51	24.45	25.02	25.51	25.78	26.36	26.30	26.87	27.36
	12H	24.10	24.60	24.61	25.10	25.66	25.88	26.38	26.39	26.87	27.44
12H	4H	23.27	23.96	23.75	24.44	24.91	25.21	25.90	25.69	26.38	26.85
	6H	23.82	24.40	24.34	24.91	25.40	25.65	26.23	26.17	26.74	27.22
	8H	24.07	24.57	24.58	25.06	25.63	25.83	26.34	26.34	26.83	27.39