

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: P242410

Luminaire Tested: S122RDRP-S865D930-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242410
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDRP-S865D930-X4F0-XX-UDD-A-W
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

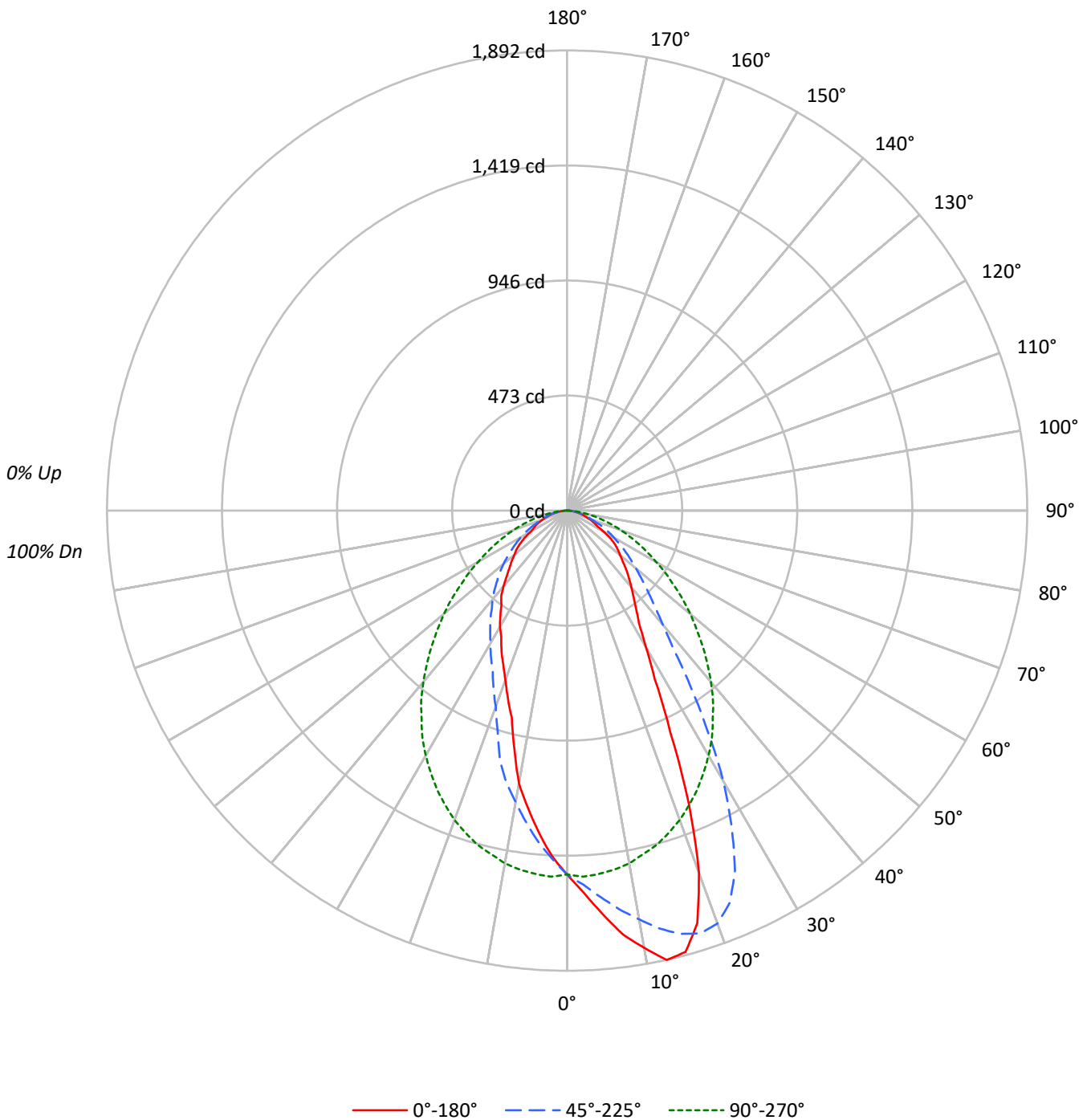
Lumens per Lamp: N/A
Luminaire Lumens: 2585.5 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 1.16 / 1.02
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

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	111	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89					87				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78					76				
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68					66				
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60					59				
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54					52				
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49					47				
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44					42				
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40					39				
9	62	50	43	38	61	50	42	37	49	42	37	47	41	37	47	41	37					35				
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34					33				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	28499	28499	28499	28499	28499
5°	31830	30516	28679	26134	25428
10°	35314	33012	28477	23550	22042
15°	37051	35533	28059	21005	17367
20°	32120	36630	27442	17398	15028
25°	21065	34318	26595	15231	13417
30°	14180	28254	25568	13870	12143
35°	11485	20635	24274	12789	10952
40°	10212	15163	22868	11803	10135
45°	9242	12604	21216	10937	9046
50°	8413	10923	19581	10105	8380
55°	7907	9667	17767	9132	7804
60°	6613	8415	16103	8377	6537
65°	5575	7500	14621	7450	6328
70°	5151	5965	13060	6572	5965
75°	4820	5394	11363	6197	5512
80°	4453	4903	9357	5419	4903
85°	4087	4196	7387	4327	4327

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 70°
 Vertical Angle: 45°
 Luminance: 30908 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.9	5.5
10°-20°	396.1	15.3
20°-30°	509.8	19.7
30°-40°	483.6	18.7
40°-50°	414.4	16.0
50°-60°	315.7	12.2
60°-70°	199.1	7.7
70°-80°	99.3	3.8
80°-90°	25.5	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°	1047.8	40.5
0°-40°	1531.4	59.2
0°-60°	2261.5	87.5
0°-90°	2585.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2585.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1496	1496	1496	1496	1496	
5°	1665	1596	1500	1367	1330	164
15°	1879	1802	1423	1065	881	511
25°	1002	1633	1265	725	638	473
35°	494	887	1044	550	471	314
45°	343	468	788	406	336	265
55°	238	291	535	275	235	210
65°	124	166	324	165	140	125
75°	66	73	154	84	75	69
85°	19	19	34	20	20	21
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°	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2
2.5°	1572.1	1573.7	1575.2	1571.6	1571.6	1568.5	1561.7	1556.5	1542.0	1539.9	1539.9
5°	1664.7	1663.6	1665.7	1658.9	1649.6	1647.5	1637.6	1624.6	1611.1	1596.0	1592.9
7.5°	1758.2	1752.0	1749.4	1752.5	1742.6	1729.1	1712.5	1696.9	1673.5	1654.3	1642.3
10°	1825.8	1843.0	1832.6	1814.4	1818.0	1793.6	1780.6	1758.2	1739.5	1706.8	1699.5
12.5°	1892.4	1896.5	1895.0	1886.7	1879.9	1864.8	1846.1	1827.4	1788.9	1760.3	1730.2
15°	1878.9	1888.7	1891.3	1888.2	1890.8	1889.8	1880.4	1864.3	1834.1	1801.9	1773.8
17.5°	1779.0	1790.5	1799.8	1808.1	1821.1	1846.6	1854.4	1857.5	1845.1	1822.2	1798.8
20°	1584.6	1573.2	1621.0	1645.4	1666.2	1718.2	1762.9	1780.1	1807.6	1807.1	1801.9
22.5°	1309.1	1315.3	1360.0	1390.2	1460.9	1512.9	1565.4	1641.8	1701.6	1745.8	1772.8
25°	1002.3	1022.1	1067.3	1106.8	1174.4	1271.1	1359.0	1460.9	1557.0	1632.9	1705.2
27.5°	779.8	782.4	823.5	863.5	905.1	988.8	1106.3	1228.5	1365.7	1464.5	1589.3
30°	644.7	641.5	656.6	679.0	713.3	774.6	857.8	977.4	1114.1	1284.6	1436.4
32.5°	549.0	550.0	560.4	575.5	602.5	638.9	689.4	780.9	908.2	1075.1	1259.7
35°	493.9	493.4	501.7	513.6	525.6	552.1	591.1	642.1	731.0	887.4	1069.4
37.5°	448.1	450.7	454.4	462.2	476.7	492.3	516.8	552.6	620.2	717.4	880.7
40°	410.7	411.7	417.5	423.7	431.5	442.9	462.2	489.7	536.0	609.8	721.6
42.5°	376.4	377.4	381.1	386.8	392.5	403.9	419.0	441.9	477.3	530.8	618.1
45°	343.1	343.1	346.8	349.4	356.1	366.5	379.5	399.3	425.3	467.9	529.2
47.5°	310.9	310.9	313.5	318.2	322.8	331.2	344.7	361.3	380.0	414.9	469.5
50°	283.9	284.4	285.9	289.6	292.2	299.5	309.3	323.4	343.1	368.6	412.3
52.5°	262.0	261.5	263.6	264.6	266.2	270.9	277.6	289.6	306.7	328.0	362.4
55°	238.1	236.0	239.1	241.7	243.3	245.4	249.5	257.3	272.4	291.1	318.2
57.5°	210.0	209.0	210.6	213.2	217.8	223.0	225.6	230.8	238.6	253.2	281.8
60°	173.6	173.6	178.3	179.9	185.6	192.9	200.2	204.3	212.1	220.9	240.7
62.5°	141.4	141.9	143.5	145.0	147.6	157.0	167.9	178.3	185.6	193.9	205.4
65°	123.7	124.8	124.8	125.8	127.9	130.0	134.1	141.4	154.4	166.4	176.2
67.5°	108.1	108.1	108.7	109.7	110.2	112.8	114.4	118.0	120.6	134.1	147.6
70°	92.5	94.1	93.6	94.6	95.1	96.2	98.3	99.8	104.5	107.1	114.4
72.5°	78.0	79.0	79.0	79.5	81.1	81.1	82.7	84.2	86.8	88.9	92.0
75°	65.5	65.0	65.5	66.5	67.1	67.6	67.6	69.7	71.2	73.3	75.9
77.5°	53.0	53.5	53.5	53.5	53.5	54.6	54.6	55.6	57.2	58.2	59.8
80°	40.6	41.1	40.6	41.1	41.6	42.1	41.6	42.1	43.7	44.7	44.7
82.5°	29.1	29.1	29.6	29.6	29.6	29.6	30.7	30.7	31.7	31.2	31.7
85°	18.7	18.2	18.2	18.2	18.7	19.2	18.7	18.7	19.2	19.2	19.2
87.5°	8.3	8.8	8.8	8.8	8.8	8.8	8.8	9.4	8.8	9.4	8.8
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°	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2
2.5°	1540.9	1536.8	1533.1	1523.8	1519.1	1508.7	1507.1	1506.6	1493.1	1480.1	1476.5
5°	1584.6	1576.3	1563.8	1549.2	1534.2	1518.6	1508.2	1499.9	1479.1	1459.3	1447.9
7.5°	1627.7	1612.7	1592.9	1568.0	1546.6	1521.7	1504.5	1488.9	1460.3	1434.4	1417.2
10°	1677.1	1648.0	1619.4	1581.5	1551.8	1522.7	1495.7	1472.3	1439.0	1401.6	1375.1
12.5°	1707.8	1675.1	1632.9	1596.0	1555.5	1516.5	1478.0	1446.3	1405.8	1366.8	1334.0
15°	1734.8	1700.5	1652.7	1599.7	1550.3	1501.9	1460.3	1422.9	1372.0	1325.7	1287.2
17.5°	1759.8	1712.5	1663.1	1601.8	1547.2	1488.4	1435.9	1389.1	1333.5	1278.9	1235.2
20°	1770.7	1723.9	1664.7	1603.3	1535.7	1463.5	1405.8	1353.8	1292.9	1232.1	1180.1
22.5°	1764.0	1730.2	1662.6	1586.2	1516.5	1440.1	1373.0	1310.6	1241.5	1179.1	1116.7
25°	1728.6	1716.1	1653.7	1573.7	1494.7	1406.8	1331.4	1265.4	1188.4	1121.9	1056.4
27.5°	1663.6	1681.8	1637.6	1550.8	1465.5	1370.9	1288.8	1214.4	1135.9	1061.6	996.1
30°	1560.7	1622.6	1605.9	1526.9	1428.6	1336.1	1241.0	1162.5	1077.2	1000.3	935.8
32.5°	1419.8	1532.1	1556.5	1493.6	1391.2	1287.2	1186.4	1108.4	1018.4	936.3	873.9
35°	1268.5	1421.4	1491.5	1449.4	1347.5	1237.8	1134.9	1043.9	954.5	874.4	812.1
37.5°	1089.2	1292.9	1401.1	1396.4	1299.2	1187.4	1075.6	985.7	893.7	814.7	749.7
40°	915.5	1141.1	1293.5	1327.3	1248.2	1125.0	1011.7	919.7	830.3	753.3	675.8
42.5°	759.5	984.1	1180.1	1245.1	1186.4	1064.2	950.3	853.1	766.8	695.1	615.5
45°	639.5	836.0	1042.4	1147.4	1112.5	999.2	879.1	787.6	706.0	643.1	567.2
47.5°	553.7	696.6	904.1	1041.3	1037.2	929.5	810.0	722.1	645.2	586.9	522.5
50°	482.5	603.1	772.0	933.2	946.7	859.9	747.6	660.8	590.1	528.2	478.8
52.5°	418.5	512.6	660.2	813.1	857.8	785.5	677.4	598.9	530.8	475.2	434.6
55°	364.4	441.4	556.8	701.3	759.5	706.5	609.8	535.0	479.3	431.5	395.1
57.5°	317.1	377.4	473.6	594.7	660.8	624.9	542.2	480.4	431.0	386.3	357.2
60°	272.9	320.2	398.7	496.0	570.8	547.4	479.3	422.7	382.1	344.7	317.6
62.5°	231.3	270.3	334.8	409.1	476.2	470.0	417.5	372.2	337.9	304.7	282.8
65°	192.9	222.5	275.0	336.9	392.0	396.7	356.6	324.4	292.7	265.7	245.4
67.5°	159.6	179.9	219.4	274.0	316.1	330.6	303.6	277.6	251.6	229.8	211.6
70°	129.5	145.0	172.1	214.2	252.1	267.7	253.7	234.5	212.6	195.5	180.4
72.5°	98.8	113.9	132.0	160.1	191.3	208.5	205.9	193.4	176.8	163.2	149.2
75°	79.0	83.7	97.2	118.0	143.5	158.0	161.7	154.4	140.4	129.5	121.1
77.5°	61.3	64.5	71.7	84.2	101.9	114.9	120.6	119.6	109.2	101.9	94.1
80°	46.8	48.3	51.5	56.1	68.6	81.6	85.3	85.3	78.5	75.9	68.1
82.5°	32.8	33.8	35.4	37.4	41.6	52.5	56.7	57.7	54.1	50.4	44.7
85°	20.3	19.8	20.8	22.4	23.4	26.5	32.8	33.8	32.8	28.6	27.0
87.5°	8.8	9.4	9.4	8.8	9.4	9.9	12.5	15.1	13.0	11.4	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2
2.5°	1469.7	1466.1	1459.3	1448.9	1442.7	1431.8	1424.5	1428.6	1429.7	1428.6	1427.6
5°	1435.4	1424.5	1409.4	1394.8	1381.3	1366.8	1358.5	1354.8	1347.5	1343.4	1341.3
7.5°	1396.4	1380.3	1359.0	1335.6	1313.7	1292.9	1283.6	1276.3	1262.8	1255.5	1248.8
10°	1351.7	1322.1	1300.7	1267.5	1247.2	1217.6	1197.3	1197.8	1177.5	1166.1	1157.8
12.5°	1302.3	1269.0	1230.0	1200.9	1170.8	1148.4	1122.9	1110.5	1088.6	1077.7	1051.7
15°	1246.7	1208.7	1171.3	1130.7	1102.1	1065.2	1029.9	986.7	951.9	921.8	913.4
17.5°	1187.4	1140.6	1103.7	1062.1	1017.4	950.3	906.7	880.2	859.4	843.8	831.3
20°	1126.1	1078.2	1038.2	966.5	900.4	858.3	828.2	808.9	787.1	769.9	760.6
22.5°	1061.6	1011.2	952.9	870.8	823.0	791.3	765.3	742.4	729.4	716.9	708.6
25°	1001.3	946.7	856.8	801.7	760.1	724.7	706.0	692.5	676.9	658.7	650.4
27.5°	938.4	851.6	783.5	743.4	700.8	678.4	662.3	640.0	625.9	619.2	609.8
30°	866.1	779.3	728.9	684.2	656.1	630.6	610.9	599.4	585.9	571.9	566.2
32.5°	785.5	720.6	672.7	637.4	608.8	588.0	573.4	553.2	544.3	537.0	523.5
35°	721.6	669.1	624.9	594.7	567.7	550.0	531.8	520.9	503.2	496.0	491.3
37.5°	663.4	617.6	584.3	551.1	530.3	509.5	499.1	480.9	474.1	462.7	453.3
40°	615.5	570.8	539.1	513.1	489.2	474.7	460.6	446.6	435.1	430.5	418.5
42.5°	566.7	532.4	500.6	471.5	457.5	441.9	423.2	413.8	401.9	393.6	387.3
45°	522.5	490.2	463.2	439.8	422.1	406.0	394.6	377.4	370.7	355.6	349.4
47.5°	483.5	452.3	426.3	403.4	385.8	376.4	359.8	344.7	335.3	324.9	316.1
50°	441.4	416.4	391.5	371.7	356.1	341.0	323.9	317.1	300.5	295.8	291.1
52.5°	402.9	379.5	357.2	337.9	322.3	307.8	293.2	283.9	274.0	269.3	266.2
55°	367.6	344.7	322.8	305.7	290.1	275.0	265.7	254.7	249.5	245.9	241.7
57.5°	331.2	310.4	293.2	275.5	259.9	247.5	236.0	229.8	224.6	220.4	214.7
60°	296.9	277.1	262.0	245.9	229.8	219.9	211.6	203.8	197.6	190.3	188.2
62.5°	260.5	243.8	230.3	214.7	201.2	192.4	184.6	177.3	169.5	158.0	154.9
65°	227.7	214.2	199.6	186.6	174.2	165.3	153.9	145.6	142.4	141.4	140.9
67.5°	197.6	184.6	172.1	158.6	147.1	137.2	130.5	129.5	127.4	126.9	125.3
70°	167.4	155.4	143.0	130.5	119.6	118.0	115.9	113.9	111.3	110.2	109.2
72.5°	140.4	127.9	115.4	106.1	102.9	100.9	98.8	96.7	95.1	94.1	93.6
75°	111.8	100.3	92.0	88.4	85.8	84.2	81.1	79.5	78.5	76.9	76.4
77.5°	85.3	78.0	73.8	71.7	68.6	67.1	65.0	63.4	61.9	61.9	60.8
80°	61.3	58.2	55.6	52.5	51.5	49.4	48.9	47.3	47.8	46.3	46.3
82.5°	44.2	40.0	38.0	36.9	35.9	34.3	33.8	33.3	33.3	32.2	32.2
85°	24.4	23.4	22.4	21.3	21.3	19.8	20.3	19.8	19.8	18.7	18.2
87.5°	9.9	9.4	8.3	8.3	8.3	7.8	7.8	7.3	7.3	7.3	6.8
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: P242410

CATALOG NUMBER: S122RDRP-S865D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1496.2	1496.2	1496.2	1496.2
2.5°	1421.9	1422.9	1421.4	1422.4
5°	1338.7	1332.5	1331.4	1329.9
7.5°	1240.4	1239.9	1236.8	1233.2
10°	1146.3	1143.7	1143.2	1139.6
12.5°	1036.1	1015.8	1013.8	1003.4
15°	901.0	897.8	887.4	880.7
17.5°	825.6	815.2	811.5	810.0
20°	753.3	744.0	742.4	741.4
22.5°	703.4	693.5	688.8	685.2
25°	645.2	641.5	639.5	638.4
27.5°	599.4	590.1	589.0	586.4
30°	561.5	558.9	555.2	552.1
32.5°	516.8	514.7	511.6	510.5
35°	486.1	478.8	475.7	471.0
37.5°	452.3	448.1	442.9	445.0
40°	411.7	409.1	408.1	407.6
42.5°	379.5	371.2	368.1	368.1
45°	346.8	340.0	335.3	335.8
47.5°	311.4	311.9	308.8	309.8
50°	287.5	284.4	282.3	282.8
52.5°	264.6	262.0	260.5	263.1
55°	239.1	236.0	235.5	235.0
57.5°	211.6	210.0	207.4	205.9
60°	181.4	177.3	172.1	171.6
62.5°	153.9	153.9	153.9	153.9
65°	139.8	139.3	139.8	140.4
67.5°	125.3	124.3	123.2	123.7
70°	108.1	107.6	107.1	107.1
72.5°	91.5	91.5	91.0	90.5
75°	75.9	74.9	74.9	74.9
77.5°	60.8	60.3	59.8	59.3
80°	45.7	45.2	44.7	44.7
82.5°	32.2	31.7	31.7	31.2
85°	18.7	19.2	18.7	19.8
87.5°	6.8	6.2	6.8	6.2
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242410
 CATALOG NUMBER: S122RDRP-S865D930-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	17.17	18.62	17.54	18.94	19.25	23.07	24.53	23.44	24.84	25.15
	3H	18.28	19.58	18.66	19.91	20.27	24.23	25.53	24.61	25.86	26.22
	4H	18.74	19.96	19.14	20.31	20.69	24.63	25.84	25.03	26.19	26.57
	6H	19.11	20.23	19.52	20.60	20.99	24.89	26.01	25.30	26.38	26.77
	8H	19.23	20.30	19.66	20.69	21.09	24.96	26.03	25.39	26.42	26.82
	12H	19.31	20.33	19.74	20.71	21.14	25.00	26.02	25.43	26.40	26.83
4H	2H	17.88	19.10	18.28	19.45	19.83	23.04	24.25	23.44	24.60	24.98
	3H	19.15	20.16	19.56	20.56	20.96	24.33	25.34	24.74	25.74	26.14
	4H	19.70	20.61	20.14	21.02	21.46	24.83	25.73	25.26	26.15	26.59
	6H	20.17	20.96	20.63	21.40	21.86	25.21	26.00	25.67	26.44	26.90
	8H	20.33	21.07	20.80	21.51	21.98	25.33	26.06	25.79	26.50	26.97
	12H	20.45	21.10	20.94	21.58	22.06	25.40	26.05	25.89	26.53	27.01
8H	4H	20.05	20.78	20.51	21.22	21.69	24.81	25.54	25.28	25.99	26.46
	6H	20.62	21.22	21.12	21.71	22.19	25.24	25.84	25.74	26.33	26.81
	8H	20.84	21.38	21.36	21.89	22.38	25.39	25.93	25.91	26.44	26.93
	12H	21.03	21.50	21.54	22.00	22.56	25.51	25.99	26.02	26.48	27.05
12H	4H	20.09	20.74	20.57	21.22	21.69	24.79	25.44	25.27	25.92	26.39
	6H	20.68	21.22	21.20	21.73	22.22	25.21	25.75	25.73	26.27	26.75
	8H	20.96	21.44	21.47	21.93	22.50	25.39	25.87	25.91	26.37	26.93