

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: P242307

Luminaire Tested: S122DRP-S865D930-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242307
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-S865D930-X4F0-XX-UDD-A-W
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

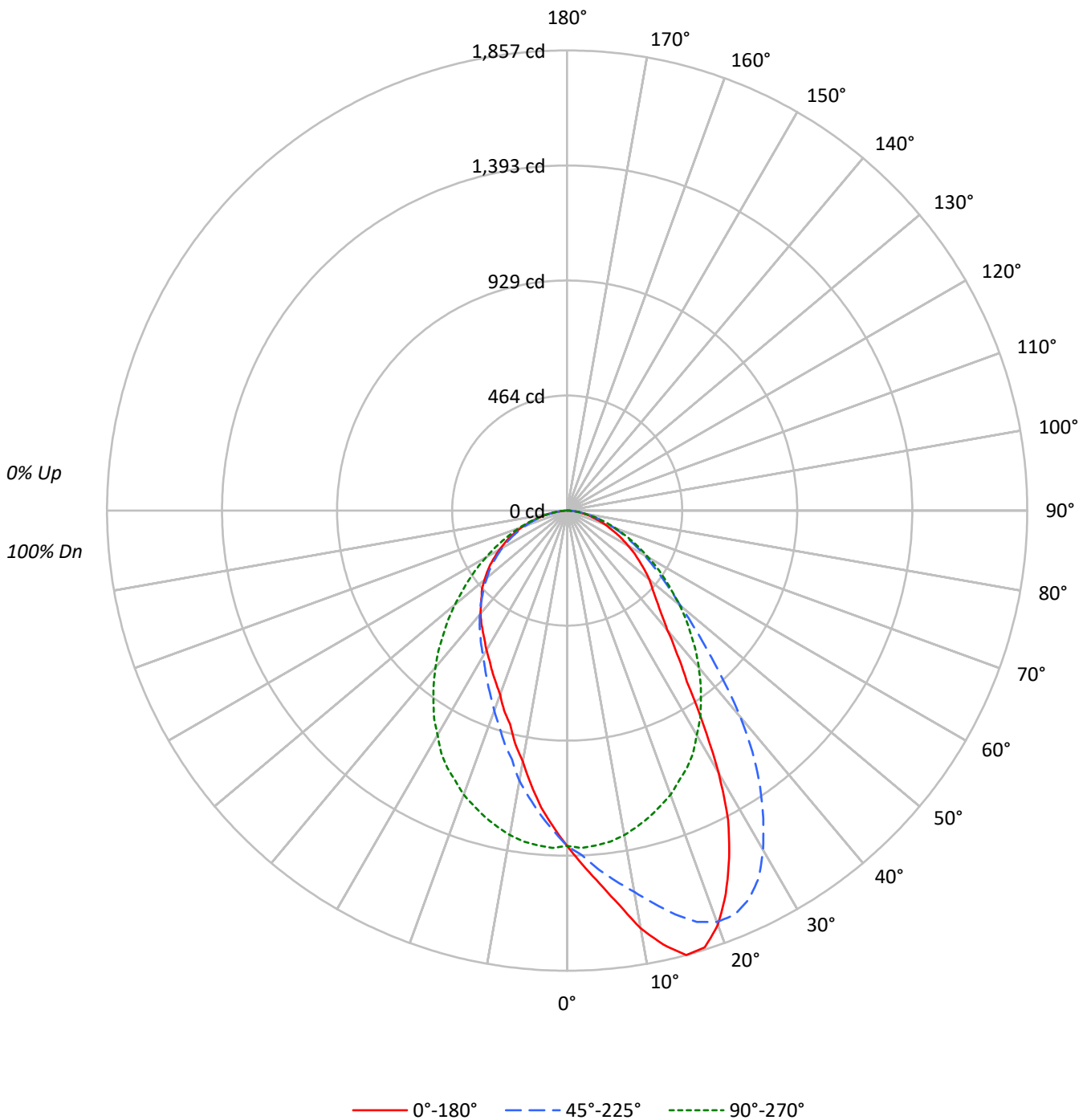
Lumens per Lamp: N/A
Luminaire Lumens: 2984.4 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.23
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	25768	25768	25768	25768	25768
5°	28889	27805	25937	23560	22983
10°	33105	30229	25722	21429	19891
15°	36621	33269	25251	19203	17572
20°	36063	35811	24746	17430	16019
25°	32519	36407	24073	16009	15035
30°	26873	34775	22995	14899	14316
35°	19586	31554	21869	14217	13805
40°	15643	27058	20541	13626	13522
45°	13668	21639	19004	13024	13137
50°	12849	17655	17516	12526	12878
55°	11846	15349	16007	12068	12536
60°	10853	13665	14400	11528	12004
65°	9889	12349	12958	10826	11484
70°	8978	11033	11550	9991	10715
75°	7956	9759	9987	8956	9486
80°	6845	8271	8271	7360	7645
85°	6141	6709	6141	5114	4546

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 65°
 Vertical Angle: 45°
 Luminance: 33149 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.9	4.3
10°-20°	375.0	12.6
20°-30°	544.3	18.2
30°-40°	573.8	19.2
40°-50°	507.7	17.0
50°-60°	405.3	13.6
60°-70°	275.3	9.2
70°-80°	140.9	4.7
80°-90°	33.3	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°	1048.2	35.1
0°-40°	1622.0	54.3
0°-60°	2534.9	84.9
0°-90°	2984.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2984.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1353	1353	1353	1353	1353	
5°	1511	1454	1356	1232	1202	150
15°	1857	1687	1280	974	891	515
25°	1547	1732	1145	762	715	702
35°	842	1357	940	611	594	545
45°	507	803	706	484	488	398
55°	357	462	482	363	378	320
65°	219	274	288	240	255	218
75°	108	133	136	122	129	115
85°	28	31	28	23	21	32
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°	1352.8	1352.8	1352.8	1352.8	1352.8	1352.8	1352.8	1352.8	1352.8	1352.8	1352.8
2.5°	1430.8	1431.3	1432.4	1424.0	1423.0	1423.0	1415.7	1409.5	1402.2	1392.3	1393.4
5°	1510.9	1516.6	1518.7	1512.4	1503.1	1502.0	1493.2	1478.6	1465.1	1454.2	1446.4
7.5°	1603.4	1605.5	1601.3	1594.1	1587.8	1575.9	1561.3	1547.3	1526.5	1507.7	1494.2
10°	1711.6	1714.7	1705.8	1693.9	1684.0	1669.4	1645.5	1621.1	1591.5	1562.9	1540.0
12.5°	1793.7	1802.5	1790.6	1791.6	1772.9	1751.6	1721.9	1712.6	1667.9	1625.2	1600.3
15°	1857.1	1856.6	1857.6	1847.8	1835.3	1832.2	1802.0	1769.3	1710.5	1687.1	1646.6
17.5°	1847.8	1855.0	1859.2	1856.1	1854.0	1849.3	1836.3	1811.9	1779.7	1740.1	1691.8
20°	1779.1	1789.5	1791.1	1803.1	1809.8	1818.7	1822.3	1816.6	1798.4	1766.7	1726.1
22.5°	1673.1	1674.1	1679.8	1700.1	1716.7	1742.2	1755.7	1781.2	1777.1	1765.6	1733.4
25°	1547.3	1542.1	1560.3	1569.6	1603.4	1638.8	1664.2	1692.3	1717.3	1732.3	1722.5
27.5°	1407.9	1397.0	1424.6	1449.0	1472.9	1507.2	1545.7	1591.5	1626.3	1673.6	1685.0
30°	1221.8	1226.5	1252.5	1279.0	1320.6	1374.6	1419.4	1470.8	1526.5	1581.1	1619.0
32.5°	1021.1	1042.4	1056.5	1100.7	1136.0	1197.9	1268.6	1336.2	1409.0	1472.9	1536.9
35°	842.3	863.1	885.9	915.6	967.0	1026.8	1090.8	1177.6	1272.2	1357.0	1426.6
37.5°	728.9	725.3	739.3	761.2	805.3	856.8	932.7	1021.1	1134.4	1228.6	1322.1
40°	629.1	627.0	636.4	656.1	687.8	723.2	787.7	863.1	966.5	1088.2	1205.2
42.5°	560.5	562.5	566.7	579.2	598.4	626.0	670.2	731.5	824.1	936.9	1064.8
45°	507.4	511.1	516.8	523.6	536.0	559.9	587.0	632.7	707.6	803.3	927.0
47.5°	465.8	466.9	473.1	479.4	486.6	501.2	525.1	554.2	611.4	693.0	803.8
50°	433.6	430.0	434.1	438.8	446.6	456.0	470.5	497.6	532.9	595.8	684.7
52.5°	394.1	395.1	398.8	399.8	406.6	415.9	428.9	445.6	476.8	522.5	591.7
55°	356.7	359.3	361.3	364.5	370.7	377.5	387.9	400.3	425.3	462.2	516.3
57.5°	321.3	322.3	323.9	330.7	334.3	340.5	350.9	362.4	379.0	407.6	450.2
60°	284.9	284.9	289.1	291.7	296.9	303.1	310.9	321.8	336.4	358.7	391.5
62.5°	251.6	251.1	252.2	256.8	260.5	266.2	274.0	282.8	296.3	315.6	341.1
65°	219.4	218.4	221.5	222.5	226.7	232.4	238.6	248.5	259.4	274.0	297.9
67.5°	187.2	188.7	190.8	192.9	195.0	201.7	205.9	213.2	222.5	235.0	251.6
70°	161.2	161.2	161.2	162.7	165.9	169.0	173.1	178.8	187.7	198.1	212.6
72.5°	132.1	134.1	136.2	134.7	138.8	140.4	145.6	148.2	156.5	162.2	174.7
75°	108.1	108.1	108.1	110.7	112.3	113.9	117.0	120.1	124.3	132.6	139.3
77.5°	85.3	84.7	85.3	85.8	87.9	89.9	91.0	93.6	97.7	101.9	108.1
80°	62.4	63.4	63.9	65.0	65.0	66.0	66.5	70.2	72.8	75.4	79.0
82.5°	44.7	44.7	44.7	44.7	45.2	45.8	47.3	47.8	48.4	50.4	53.0
85°	28.1	27.6	27.6	28.6	28.1	28.1	29.1	30.2	30.2	30.7	32.2
87.5°	13.5	13.5	14.0	13.5	13.5	14.0	14.0	13.5	14.0	14.6	15.1
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°	1352.8	1352.8	1352.8	1352.8	1352.8	1352.8	1352.8	1352.8	1352.8	1352.8	1352.8
2.5°	1397.0	1392.8	1390.2	1380.9	1372.6	1364.2	1361.6	1362.7	1351.3	1340.3	1335.7
5°	1442.2	1431.8	1422.0	1407.9	1391.3	1373.1	1363.7	1356.5	1338.3	1318.5	1307.1
7.5°	1483.3	1469.8	1452.1	1427.2	1404.3	1377.2	1360.6	1346.6	1321.1	1294.6	1278.5
10°	1520.2	1499.9	1475.5	1443.3	1413.6	1378.8	1354.4	1329.9	1298.7	1265.5	1244.7
12.5°	1551.9	1522.8	1498.9	1455.2	1418.8	1373.1	1342.9	1306.0	1272.7	1231.7	1211.4
15°	1606.0	1555.6	1509.8	1463.0	1419.9	1359.1	1326.8	1280.5	1237.4	1188.5	1165.1
17.5°	1646.0	1591.5	1520.7	1464.1	1416.2	1351.3	1305.0	1249.9	1201.0	1146.9	1115.7
20°	1679.3	1614.3	1536.9	1466.2	1405.8	1328.9	1277.4	1220.8	1161.0	1098.1	1063.7
22.5°	1699.1	1629.9	1553.5	1458.4	1385.0	1310.7	1242.6	1179.2	1118.3	1049.2	1012.8
25°	1700.1	1637.7	1556.6	1454.7	1368.4	1283.7	1205.7	1145.4	1072.1	1008.6	956.1
27.5°	1683.0	1633.6	1555.1	1447.4	1349.2	1251.9	1167.2	1101.2	1023.7	955.1	902.6
30°	1645.0	1619.0	1543.1	1435.0	1325.3	1218.7	1123.0	1045.5	968.6	898.9	844.9
32.5°	1586.3	1585.7	1521.3	1417.3	1299.8	1176.6	1076.7	998.2	910.9	842.8	791.8
35°	1505.7	1530.6	1488.5	1389.2	1266.5	1137.0	1029.9	940.5	852.1	786.6	738.3
37.5°	1403.2	1461.0	1444.3	1351.8	1223.9	1094.9	978.5	884.9	800.1	732.6	685.2
40°	1296.7	1375.7	1387.1	1307.6	1178.1	1044.5	919.2	826.1	744.0	683.7	635.9
42.5°	1182.3	1277.9	1314.3	1254.5	1128.2	991.5	866.2	768.9	687.8	629.6	588.5
45°	1051.8	1174.0	1230.6	1194.2	1071.5	932.2	803.3	705.5	631.7	576.6	543.8
47.5°	933.8	1066.3	1138.6	1121.5	1010.7	872.4	745.0	649.9	576.6	531.9	501.2
50°	806.9	944.2	1036.2	1040.3	944.2	807.4	679.5	591.1	525.1	484.0	460.1
52.5°	696.7	826.1	928.6	955.1	869.8	739.8	620.8	532.9	476.8	439.8	419.0
55°	603.6	714.4	825.6	866.2	796.0	671.2	559.4	482.0	427.4	401.4	382.7
57.5°	515.2	612.5	718.0	760.6	715.9	606.2	498.1	430.0	383.7	360.3	345.7
60°	448.2	521.0	612.5	666.0	628.6	533.4	441.9	378.0	341.6	321.3	307.8
62.5°	385.8	448.2	522.0	569.8	553.7	465.3	385.8	331.2	301.0	282.3	273.5
65°	328.6	379.5	439.3	484.6	471.0	402.9	335.9	287.5	262.6	247.5	239.7
67.5°	279.7	318.7	361.3	402.9	391.5	341.1	284.4	245.4	226.2	212.6	208.0
70°	234.0	262.0	298.9	330.7	321.8	282.3	239.7	207.4	191.3	180.4	175.7
72.5°	190.3	212.1	238.1	262.6	257.4	226.2	192.4	170.0	158.6	148.7	145.1
75°	150.3	167.9	185.1	202.2	200.7	175.2	154.4	135.7	125.8	118.0	116.5
77.5°	117.5	128.4	140.9	151.8	149.2	132.6	115.4	104.0	96.2	91.0	90.5
80°	84.7	90.5	98.8	106.1	102.4	96.2	83.2	75.4	70.2	65.0	62.9
82.5°	55.6	61.3	65.5	68.6	66.0	60.3	53.6	48.9	46.3	43.2	42.6
85°	32.2	35.4	37.4	38.5	37.4	33.8	30.2	28.1	25.5	23.9	23.4
87.5°	15.6	15.6	15.6	16.6	15.1	15.1	13.0	11.4	10.9	10.4	9.4
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°	1352.8	1352.8	1352.8	1352.8	1352.8	1352.8	1352.8	1352.8	1352.8	1352.8	1352.8
2.5°	1330.5	1327.3	1316.4	1310.7	1301.3	1292.5	1286.8	1289.4	1291.5	1290.4	1288.9
5°	1296.7	1286.8	1271.7	1258.7	1249.3	1232.2	1224.9	1221.3	1218.2	1214.5	1210.9
7.5°	1259.2	1245.2	1223.9	1207.2	1190.6	1168.8	1157.8	1151.6	1144.8	1137.0	1129.8
10°	1218.7	1196.8	1174.0	1148.0	1127.2	1107.9	1090.8	1079.3	1068.9	1059.1	1051.8
12.5°	1176.0	1150.0	1120.4	1082.5	1059.1	1029.4	1030.5	1008.1	990.4	985.2	976.4
15°	1130.3	1094.9	1059.1	1016.9	998.8	973.8	958.2	942.6	928.6	918.7	916.1
17.5°	1080.4	1033.1	998.2	967.0	937.4	911.9	898.4	885.9	874.0	859.4	858.9
20°	1021.6	982.1	943.1	916.6	885.9	859.9	842.3	829.8	819.9	812.1	805.3
22.5°	966.0	921.8	887.0	857.3	827.2	807.4	794.4	782.5	774.7	765.8	759.6
25°	905.7	871.9	832.9	800.1	775.2	761.7	750.2	739.8	734.6	728.9	721.6
27.5°	854.2	816.8	778.3	752.8	730.0	718.0	709.2	701.4	696.7	693.0	688.4
30°	799.1	761.2	732.6	707.6	689.4	677.4	672.2	668.1	662.4	660.3	658.2
32.5°	746.1	712.8	689.4	668.6	651.4	644.7	640.0	636.4	632.2	630.1	625.5
35°	696.7	668.1	644.2	632.2	618.2	611.4	607.8	602.6	598.4	596.3	595.8
37.5°	649.4	623.4	607.3	591.1	584.4	580.7	575.5	571.9	570.3	569.8	569.3
40°	603.6	583.3	569.3	556.8	554.2	548.0	543.8	540.7	540.7	541.2	540.7
42.5°	562.0	544.3	532.4	522.0	518.9	515.8	511.6	512.1	513.2	515.2	513.2
45°	519.9	506.9	498.1	492.9	487.2	483.5	483.0	484.6	485.1	485.6	487.2
47.5°	480.4	472.1	463.8	457.5	454.9	454.4	453.4	456.0	458.6	459.1	461.7
50°	446.1	436.2	429.4	425.8	423.7	422.7	423.7	426.8	428.9	431.5	433.1
52.5°	407.6	401.4	397.2	394.6	394.1	395.1	395.1	398.8	402.4	402.9	403.5
55°	372.8	367.6	366.5	361.9	363.9	363.4	366.0	368.1	371.2	374.3	374.9
57.5°	337.4	332.7	329.6	330.1	330.7	332.7	334.8	338.5	342.1	345.7	345.7
60°	302.1	300.0	298.4	298.4	299.5	302.6	305.2	308.8	310.9	313.0	314.5
62.5°	269.8	267.8	266.2	267.2	270.4	271.9	275.0	276.6	278.7	280.8	281.3
65°	235.5	234.5	236.0	237.1	237.6	240.2	243.8	245.4	247.5	248.5	252.2
67.5°	204.3	204.3	203.8	205.4	208.5	209.0	212.6	216.8	216.8	218.9	221.5
70°	172.6	173.7	174.7	175.7	178.3	179.4	182.0	183.5	185.6	187.2	188.7
72.5°	143.5	143.5	144.5	144.0	146.1	148.7	150.8	152.3	154.4	156.5	158.1
75°	114.9	114.9	115.9	116.5	119.1	121.7	121.1	122.2	124.3	126.3	127.4
77.5°	88.9	87.9	88.9	89.4	90.5	92.5	93.1	94.6	97.2	96.7	97.7
80°	63.9	62.4	63.9	64.5	64.5	67.1	67.1	68.1	69.7	68.1	69.7
82.5°	41.1	40.6	41.6	41.6	42.6	42.1	43.2	43.2	44.7	44.2	44.7
85°	22.9	22.4	22.9	22.4	22.9	23.4	23.4	22.9	22.9	23.9	22.4
87.5°	8.8	8.3	7.8	7.8	7.3	6.8	6.2	6.2	6.2	5.2	5.2
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: P242307

CATALOG NUMBER: S122DRP-S865D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1352.8	1352.8	1352.8	1352.8
2.5°	1283.7	1282.6	1282.6	1277.9
5°	1203.6	1202.0	1199.4	1202.0
7.5°	1127.7	1120.9	1119.9	1114.7
10°	1042.9	1038.8	1038.3	1028.4
12.5°	978.5	967.0	969.6	965.0
15°	902.0	902.0	900.0	891.1
17.5°	847.5	846.9	842.3	845.4
20°	799.6	796.5	790.3	790.3
22.5°	754.4	754.9	748.2	750.8
25°	721.1	717.0	713.8	715.4
27.5°	686.8	685.2	684.7	680.0
30°	657.7	652.5	653.5	650.9
32.5°	624.4	623.4	621.8	619.7
35°	594.8	595.3	592.7	593.7
37.5°	568.3	570.3	568.8	568.8
40°	542.3	542.3	542.3	543.8
42.5°	517.3	516.3	515.2	514.7
45°	488.2	489.8	490.3	487.7
47.5°	462.7	463.2	462.7	465.8
50°	435.7	434.6	435.7	434.6
52.5°	407.1	407.6	406.6	406.6
55°	376.9	378.0	377.5	377.5
57.5°	346.3	346.8	347.8	345.2
60°	314.0	316.6	316.1	315.1
62.5°	284.4	284.9	284.9	284.9
65°	253.7	254.8	253.2	254.8
67.5°	220.4	221.0	222.0	222.5
70°	189.8	189.2	190.8	192.4
72.5°	157.5	159.1	158.1	159.1
75°	126.3	127.9	127.4	128.9
77.5°	96.7	97.2	97.2	97.7
80°	69.7	68.6	67.6	69.7
82.5°	43.2	44.2	43.2	42.6
85°	22.4	21.8	20.8	20.8
87.5°	5.2	4.7	4.7	4.2
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P242307

CATALOG NUMBER: S122DRP-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	19.58	21.10	19.95	21.41	21.73	22.84	24.35	23.20	24.67	24.98
	3H	20.99	22.35	21.37	22.68	23.04	23.85	25.21	24.23	25.54	25.90
	4H	21.50	22.77	21.89	23.12	23.50	24.17	25.44	24.57	25.79	26.17
	6H	21.85	23.03	22.26	23.40	23.79	24.36	25.54	24.77	25.91	26.30
	8H	21.96	23.08	22.39	23.47	23.87	24.41	25.53	24.83	25.92	26.32
	12H	22.03	23.11	22.46	23.49	23.92	24.42	25.50	24.85	25.88	26.31
4H	2H	20.44	21.72	20.84	22.07	22.45	23.05	24.33	23.45	24.67	25.05
	3H	22.00	23.06	22.41	23.46	23.86	24.39	25.45	24.80	25.85	26.25
	4H	22.59	23.54	23.02	23.96	24.40	24.90	25.85	25.33	26.27	26.70
	6H	23.04	23.87	23.49	24.31	24.77	25.23	26.06	25.69	26.50	26.96
	8H	23.18	23.95	23.64	24.40	24.86	25.30	26.08	25.77	26.52	26.99
	12H	23.28	23.97	23.76	24.45	24.92	25.35	26.04	25.83	26.52	26.99
8H	4H	23.02	23.80	23.49	24.24	24.71	25.02	25.80	25.49	26.24	26.71
	6H	23.56	24.20	24.05	24.69	25.16	25.46	26.10	25.96	26.59	27.07
	8H	23.75	24.32	24.26	24.83	25.32	25.60	26.17	26.11	26.68	27.17
	12H	23.91	24.42	24.42	24.91	25.47	25.69	26.19	26.20	26.68	27.25
12H	4H	23.08	23.77	23.56	24.25	24.72	25.02	25.71	25.50	26.19	26.66
	6H	23.63	24.21	24.15	24.72	25.21	25.46	26.04	25.98	26.55	27.04
	8H	23.88	24.38	24.39	24.88	25.44	25.64	26.15	26.15	26.64	27.20