

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: P243167

Luminaire Tested: S122DRP-H865D930-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243167
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-58)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DRP-H865D930-X4F0-XX-UDD-A-W
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

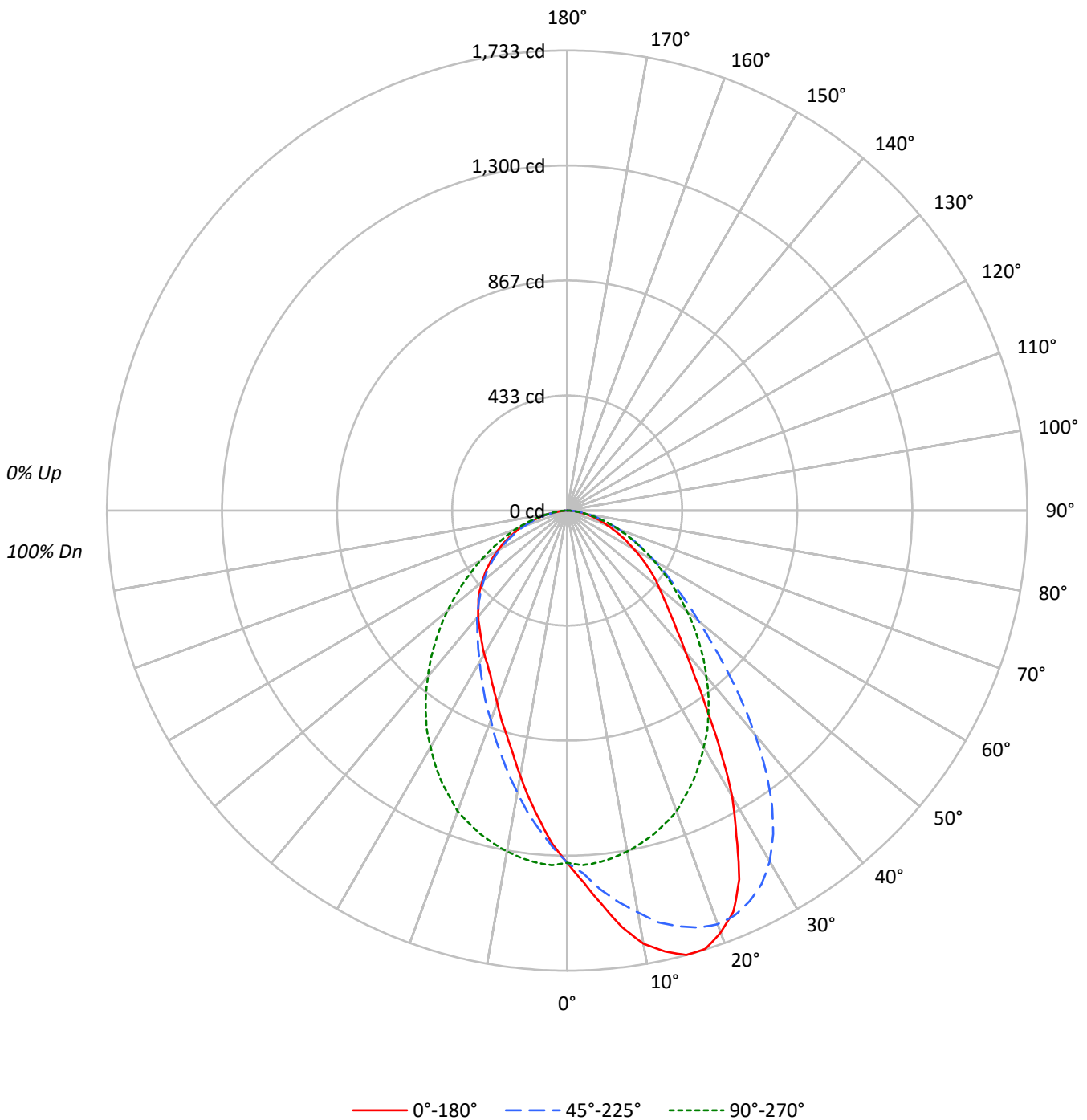
Lumens per Lamp: N/A
Luminaire Lumens: 2943.4 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.24
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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

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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	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	63					63			
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	52	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43					43			
7	68	56	47	41	67	55	47	41	53	46	41	52	46	41	51	45	40	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	34	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	25267	25267	25267	25267	25267
5°	28461	27371	25447	23044	22415
10°	32037	29730	25219	20860	19616
15°	34172	31956	24880	18828	17290
20°	34271	33604	24430	17027	15604
25°	32231	34140	23617	15683	14382
30°	27361	33559	22632	14468	13733
35°	21393	31254	21574	13663	13219
40°	17187	27332	20275	13109	12965
45°	14783	22905	18937	12564	12723
50°	13412	19101	17427	12147	12366
55°	12357	16418	15880	11673	12032
60°	11109	14476	14309	11128	11482
65°	10001	12944	12854	10420	10930
70°	8911	11484	11428	9540	10225
75°	8022	10009	9825	8456	8956
80°	6998	8293	7920	6889	6998
85°	6010	6862	5901	4611	3868

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 65°
 Vertical Angle: 45°
 Luminance: 31670 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.4	4.3
10°-20°	363.2	12.3
20°-30°	528.2	17.9
30°-40°	566.6	19.3
40°-50°	507.8	17.3
50°-60°	404.9	13.8
60°-70°	273.9	9.3
70°-80°	139.7	4.7
80°-90°	32.7	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°	1017.8	34.6
0°-40°	1584.4	53.8
0°-60°	2497.1	84.8
0°-90°	2943.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2943.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1326	1326	1326	1326	1326	
5°	1488	1432	1331	1205	1172	147
15°	1733	1620	1262	955	877	485
25°	1534	1624	1124	746	684	690
35°	920	1344	928	588	568	583
45°	549	850	703	466	472	429
55°	372	494	478	352	362	332
65°	222	287	285	231	242	220
75°	109	136	134	115	122	116
85°	28	31	27	21	18	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°	1326.5	1326.5	1326.5	1326.5	1326.5	1326.5	1326.5	1326.5	1326.5	1326.5	1326.5
2.5°	1400.1	1404.5	1400.6	1399.1	1396.2	1395.2	1387.3	1380.9	1377.0	1366.2	1367.2
5°	1488.5	1498.3	1492.9	1492.4	1481.6	1474.7	1467.8	1458.0	1443.3	1431.5	1422.2
7.5°	1581.7	1576.8	1575.4	1570.0	1562.1	1552.3	1537.1	1522.8	1504.2	1487.0	1474.2
10°	1656.4	1654.9	1657.3	1643.6	1638.7	1623.5	1610.2	1588.1	1564.1	1537.1	1520.4
12.5°	1700.5	1705.0	1708.4	1703.0	1691.2	1686.8	1664.7	1633.8	1625.4	1588.6	1568.5
15°	1732.9	1734.9	1735.4	1729.5	1723.6	1712.3	1699.1	1679.4	1652.4	1620.5	1605.3
17.5°	1731.0	1730.5	1733.4	1730.0	1726.6	1723.1	1712.8	1697.6	1676.5	1646.5	1621.0
20°	1690.7	1699.6	1706.4	1707.9	1707.4	1709.4	1704.5	1694.6	1679.4	1657.8	1628.9
22.5°	1635.7	1632.3	1647.0	1646.0	1652.4	1667.2	1673.5	1669.6	1663.7	1650.0	1626.9
25°	1533.6	1537.1	1547.4	1558.2	1583.2	1592.0	1611.2	1625.9	1627.9	1624.4	1610.2
27.5°	1380.5	1405.0	1410.4	1424.6	1459.5	1488.5	1527.2	1550.3	1583.2	1586.2	1579.8
30°	1244.0	1243.0	1251.3	1276.9	1308.8	1352.5	1402.5	1461.9	1499.7	1525.8	1535.1
32.5°	1076.1	1080.0	1101.6	1133.0	1165.4	1209.1	1267.1	1339.7	1390.3	1444.3	1474.7
35°	920.0	932.3	952.9	974.5	1009.8	1069.7	1134.0	1194.4	1272.0	1344.1	1393.2
37.5°	791.4	808.0	823.8	844.4	878.7	924.9	982.8	1062.8	1139.9	1226.8	1299.0
40°	691.2	697.6	708.4	728.5	751.6	797.7	856.2	916.1	999.5	1099.2	1193.9
42.5°	612.7	611.2	623.0	635.7	656.8	691.2	742.3	802.2	885.1	973.5	1069.2
45°	548.8	549.3	554.2	567.5	584.2	603.8	643.1	699.6	762.4	850.3	951.9
47.5°	496.8	498.3	505.6	515.0	524.8	543.0	569.0	605.8	664.7	738.3	833.6
50°	452.6	455.1	460.0	466.9	474.2	487.0	506.6	535.6	582.2	644.6	731.0
52.5°	413.4	414.3	415.8	422.2	428.1	439.9	454.6	477.2	514.0	566.0	633.3
55°	372.1	371.1	374.6	380.0	385.4	393.7	408.9	427.1	453.1	494.4	549.8
57.5°	329.9	331.4	333.8	336.8	346.6	355.4	366.7	383.4	404.0	436.4	482.6
60°	291.6	291.6	294.5	298.5	304.9	310.8	321.6	336.8	354.9	380.0	418.8
62.5°	254.3	256.3	259.2	261.2	267.1	274.4	282.8	294.5	311.2	331.4	360.3
65°	221.9	220.9	223.9	227.8	232.2	237.1	246.4	256.3	269.0	287.2	311.2
67.5°	188.5	191.5	192.4	194.4	197.8	204.2	208.6	218.9	229.3	245.5	265.6
70°	160.0	162.0	163.5	165.9	168.9	171.8	176.2	184.6	194.9	206.2	220.4
72.5°	134.5	136.0	134.5	137.0	138.4	141.4	147.3	151.2	159.1	168.9	181.6
75°	109.0	110.0	109.5	111.9	112.4	115.4	118.3	121.7	130.6	136.0	144.8
77.5°	85.4	86.4	86.9	87.9	88.9	90.3	91.8	95.2	100.1	105.1	111.9
80°	63.8	63.8	65.3	65.8	66.3	67.3	69.7	70.7	74.1	75.6	81.0
82.5°	44.2	44.7	45.2	45.2	45.7	46.6	47.1	49.1	50.1	52.5	55.0
85°	27.5	28.0	28.0	28.0	29.5	29.0	29.0	29.9	31.4	31.4	32.4
87.5°	13.7	14.2	14.2	14.2	14.7	14.7	14.7	14.7	14.7	15.7	15.2
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°	1326.5	1326.5	1326.5	1326.5	1326.5	1326.5	1326.5	1326.5	1326.5	1326.5	1326.5
2.5°	1366.7	1366.2	1364.3	1355.4	1348.5	1339.7	1338.2	1336.8	1324.5	1311.2	1307.3
5°	1414.8	1406.0	1393.7	1379.0	1364.3	1348.1	1338.7	1330.9	1312.2	1291.6	1279.8
7.5°	1461.9	1444.8	1425.6	1402.5	1378.0	1352.0	1335.3	1319.6	1294.1	1267.1	1250.9
10°	1502.2	1479.1	1452.6	1422.2	1388.3	1353.0	1328.4	1303.9	1271.5	1238.6	1217.0
12.5°	1535.6	1506.1	1471.3	1430.0	1399.1	1350.5	1316.1	1283.7	1247.9	1205.2	1181.6
15°	1561.1	1532.2	1485.0	1443.3	1402.5	1337.7	1296.0	1261.7	1213.5	1171.8	1134.5
17.5°	1592.0	1550.8	1504.2	1444.3	1399.1	1325.0	1277.9	1233.2	1181.1	1132.1	1090.8
20°	1605.8	1562.6	1512.5	1445.7	1388.3	1311.2	1248.4	1205.2	1142.4	1085.9	1039.3
22.5°	1607.8	1566.5	1512.0	1441.3	1369.7	1291.1	1218.9	1162.5	1099.7	1039.8	987.2
25°	1599.4	1560.1	1503.7	1433.5	1349.0	1269.5	1189.0	1123.7	1051.1	989.2	935.7
27.5°	1576.8	1544.9	1491.4	1416.3	1327.9	1236.1	1148.3	1077.1	1005.4	935.2	884.1
30°	1540.5	1519.4	1473.2	1393.7	1300.9	1199.8	1111.9	1029.0	951.4	885.6	830.6
32.5°	1493.9	1483.5	1445.3	1366.7	1273.4	1160.0	1068.2	982.8	898.4	836.0	779.6
35°	1434.5	1439.9	1407.5	1336.3	1238.6	1119.8	1017.2	927.8	845.4	779.1	727.0
37.5°	1357.4	1383.9	1363.3	1296.5	1193.9	1079.0	963.7	873.8	787.4	723.6	678.0
40°	1271.0	1317.6	1307.8	1251.8	1145.8	1031.4	912.1	815.4	731.0	670.6	626.9
42.5°	1169.4	1237.1	1247.9	1197.3	1098.2	972.0	854.2	760.9	679.4	620.0	578.3
45°	1055.5	1139.4	1175.7	1136.0	1042.7	914.6	794.8	703.0	622.5	571.9	537.1
47.5°	941.1	1042.2	1091.3	1072.2	977.9	853.2	735.9	646.0	570.0	525.8	492.9
50°	828.2	936.7	1008.3	995.6	914.1	794.8	676.5	588.1	518.4	477.7	449.7
52.5°	729.0	831.6	909.7	916.1	842.9	728.0	613.6	531.7	472.3	435.4	411.9
55°	631.3	726.6	812.0	827.7	768.3	657.8	555.7	478.2	424.2	393.7	374.6
57.5°	543.9	630.3	715.3	742.8	694.6	595.0	493.4	425.1	378.5	354.9	338.2
60°	469.8	547.9	621.0	649.0	616.1	525.3	436.4	375.6	336.8	315.7	302.4
62.5°	405.0	465.4	530.2	561.1	539.0	460.0	382.4	328.4	297.0	278.8	268.5
65°	346.6	393.2	444.3	480.1	455.6	396.7	331.9	285.2	258.7	242.0	234.7
67.5°	292.6	331.4	372.1	400.6	388.3	334.8	280.3	244.0	221.9	209.1	202.3
70°	243.5	272.5	305.4	327.4	318.6	277.4	234.2	205.2	186.5	177.7	171.8
72.5°	199.8	218.5	243.5	261.7	252.3	223.4	192.4	169.4	155.6	145.3	140.9
75°	158.6	174.8	192.4	204.7	197.3	175.7	151.2	133.5	124.2	117.8	114.9
77.5°	120.3	133.0	145.3	151.2	147.8	132.1	115.4	101.6	93.8	89.8	86.4
80°	86.4	93.8	102.1	107.5	105.5	94.7	83.0	72.2	68.7	63.8	62.8
82.5°	57.9	63.8	65.8	68.2	66.8	61.9	53.5	47.1	44.2	41.7	41.2
85°	34.4	35.8	38.3	38.3	36.8	33.4	29.0	27.0	24.1	23.6	22.1
87.5°	15.2	15.2	15.2	15.2	15.2	14.2	12.3	11.3	10.3	9.8	9.3
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°	1326.5	1326.5	1326.5	1326.5	1326.5	1326.5	1326.5	1326.5	1326.5	1326.5	1326.5
2.5°	1303.9	1299.0	1292.1	1284.2	1277.4	1266.6	1263.1	1263.1	1265.6	1262.6	1260.2
5°	1270.0	1260.2	1250.4	1235.1	1222.4	1205.2	1200.3	1195.4	1194.9	1190.0	1183.6
7.5°	1233.7	1218.9	1198.8	1177.2	1163.5	1144.8	1134.5	1131.6	1122.2	1113.4	1103.1
10°	1191.5	1168.9	1144.8	1124.2	1102.6	1078.5	1066.3	1057.9	1048.6	1037.8	1030.4
12.5°	1140.4	1114.9	1092.8	1068.7	1050.6	1016.7	1012.8	1002.0	983.3	967.1	961.2
15°	1109.0	1064.3	1039.3	1017.2	989.7	954.8	942.1	930.3	912.6	902.3	894.0
17.5°	1053.5	1013.3	981.8	952.4	925.9	898.9	879.7	869.9	855.7	846.8	838.5
20°	1002.9	959.3	926.4	892.0	864.5	840.0	823.8	811.5	804.1	795.3	786.9
22.5°	951.9	906.2	874.8	840.0	807.6	792.8	773.7	763.4	753.6	746.7	737.8
25°	892.5	856.2	816.9	789.9	761.4	746.2	728.0	718.2	710.4	702.5	698.1
27.5°	839.5	802.6	766.3	739.3	715.3	700.5	689.2	679.9	670.1	664.2	660.8
30°	784.5	750.6	718.7	692.7	674.0	657.8	651.0	642.1	634.8	632.3	626.9
32.5°	735.4	697.6	672.1	648.5	632.8	621.5	616.6	607.3	605.8	603.3	600.4
35°	686.3	653.9	629.4	609.2	596.0	587.6	581.2	578.8	576.3	573.9	571.4
37.5°	637.7	612.2	589.1	572.9	562.1	555.7	554.2	549.3	548.8	545.4	545.4
40°	594.0	568.0	551.8	539.0	530.2	527.2	523.3	522.3	520.9	519.9	521.8
42.5°	550.3	532.6	518.9	505.6	498.8	496.3	495.3	493.9	492.9	495.8	496.8
45°	509.6	494.4	482.6	473.2	469.3	466.4	466.4	467.8	467.4	468.8	468.8
47.5°	471.8	458.0	448.2	444.8	439.9	438.9	439.4	438.9	441.3	443.3	445.3
50°	435.9	423.7	415.8	412.4	411.4	409.9	411.9	412.9	414.3	416.3	417.3
52.5°	396.2	390.3	385.4	381.9	381.4	381.9	381.4	384.9	386.4	389.3	388.8
55°	362.3	357.9	354.4	350.5	350.0	351.5	352.5	355.4	357.4	359.8	359.4
57.5°	330.4	327.0	323.0	322.0	321.6	322.0	326.5	326.0	328.9	330.9	331.9
60°	295.5	293.1	289.6	289.6	291.1	292.1	293.6	296.0	299.0	298.5	301.9
62.5°	263.6	260.7	259.7	261.2	260.7	263.1	264.6	264.6	268.5	270.0	271.0
65°	231.7	230.7	229.3	229.3	230.7	231.2	233.7	235.1	236.6	239.6	242.0
67.5°	201.8	199.3	199.3	198.3	200.3	201.8	203.2	205.2	206.2	209.6	211.1
70°	170.3	169.4	168.9	169.9	169.9	171.3	173.8	176.2	178.2	178.7	181.6
72.5°	139.9	139.9	139.9	141.4	142.4	143.8	144.3	146.3	149.2	149.7	151.2
75°	112.4	112.9	112.4	112.9	113.4	114.9	115.9	117.8	119.8	120.3	121.3
77.5°	86.9	85.9	84.9	86.4	87.4	90.3	89.8	90.8	92.8	91.8	92.8
80°	60.9	62.3	60.4	63.3	63.3	62.8	63.8	65.3	64.8	65.8	64.8
82.5°	41.2	39.8	39.8	41.2	41.7	40.3	41.2	41.7	42.2	41.2	40.7
85°	22.6	22.1	23.1	21.6	22.1	21.1	21.1	20.1	21.1	20.1	19.1
87.5°	8.3	7.9	8.3	6.9	6.4	5.9	5.4	5.4	4.4	4.4	4.4
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: P243167

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1326.5	1326.5	1326.5	1326.5
2.5°	1263.6	1258.2	1255.8	1257.7
5°	1176.7	1178.2	1169.4	1172.3
7.5°	1101.6	1095.2	1097.2	1093.8
10°	1022.1	1018.7	1013.3	1014.2
12.5°	968.6	945.5	944.0	939.6
15°	893.5	880.7	877.8	876.8
17.5°	833.6	822.8	826.7	823.8
20°	779.6	780.1	773.7	769.8
22.5°	732.0	731.0	728.5	724.6
25°	691.7	691.7	685.8	684.3
27.5°	654.9	655.9	651.0	651.0
30°	627.4	624.0	623.5	624.4
32.5°	599.9	596.0	596.5	596.0
35°	570.4	571.4	570.0	568.5
37.5°	545.4	545.4	545.4	543.9
40°	520.9	521.8	520.4	521.4
42.5°	496.3	496.8	496.8	494.8
45°	471.8	471.3	470.3	472.3
47.5°	446.2	446.2	445.8	446.7
50°	418.3	419.2	417.8	417.3
52.5°	389.8	390.3	389.8	390.8
55°	360.8	360.8	361.3	362.3
57.5°	330.9	334.3	331.9	333.8
60°	301.4	301.9	302.4	301.4
62.5°	273.4	272.9	273.4	274.9
65°	243.0	244.0	243.5	242.5
67.5°	213.1	212.1	213.5	212.1
70°	181.1	183.1	181.6	183.6
72.5°	152.2	151.7	152.7	150.2
75°	121.7	121.7	122.2	121.7
77.5°	93.3	92.3	91.8	90.3
80°	64.3	64.3	62.3	63.8
82.5°	39.3	39.8	40.3	37.3
85°	18.7	18.7	18.2	17.7
87.5°	3.9	3.9	4.4	4.9
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P243167

CATALOG NUMBER: S122DRP-H865D930-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	19.87	21.39	20.23	21.70	22.02	22.71	24.23	23.07	24.54	24.86
	3H	21.22	22.59	21.60	22.91	23.28	23.73	25.09	24.10	25.42	25.78
	4H	21.71	22.99	22.11	23.34	23.71	24.05	25.33	24.45	25.68	26.06
	6H	22.06	23.24	22.47	23.61	24.00	24.25	25.43	24.66	25.80	26.19
	8H	22.16	23.29	22.59	23.68	24.08	24.29	25.42	24.72	25.81	26.21
	12H	22.23	23.31	22.66	23.69	24.12	24.31	25.39	24.74	25.77	26.20
4H	2H	20.75	22.03	21.15	22.38	22.76	22.95	24.23	23.35	24.58	24.96
	3H	22.25	23.31	22.66	23.71	24.11	24.32	25.38	24.73	25.78	26.18
	4H	22.82	23.77	23.25	24.19	24.63	24.83	25.79	25.26	26.21	26.64
	6H	23.25	24.09	23.71	24.53	24.99	25.16	26.00	25.62	26.44	26.90
	8H	23.39	24.17	23.85	24.61	25.08	25.24	26.02	25.70	26.46	26.93
	12H	23.49	24.18	23.97	24.66	25.13	25.28	25.97	25.76	26.45	26.92
8H	4H	23.25	24.03	23.72	24.47	24.94	24.97	25.75	25.43	26.19	26.66
	6H	23.78	24.42	24.27	24.91	25.39	25.41	26.05	25.91	26.54	27.02
	8H	23.96	24.54	24.48	25.05	25.54	25.54	26.12	26.06	26.63	27.12
	12H	24.12	24.63	24.63	25.12	25.68	25.63	26.14	26.14	26.64	27.20
12H	4H	23.31	24.00	23.79	24.48	24.95	24.96	25.66	25.44	26.14	26.61
	6H	23.85	24.43	24.37	24.94	25.43	25.41	25.99	25.93	26.50	26.99
	8H	24.09	24.60	24.60	25.09	25.66	25.59	26.10	26.10	26.59	27.16