

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: P242311

Luminaire Tested: S122DRP-S675D935-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242311
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-S675D935-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

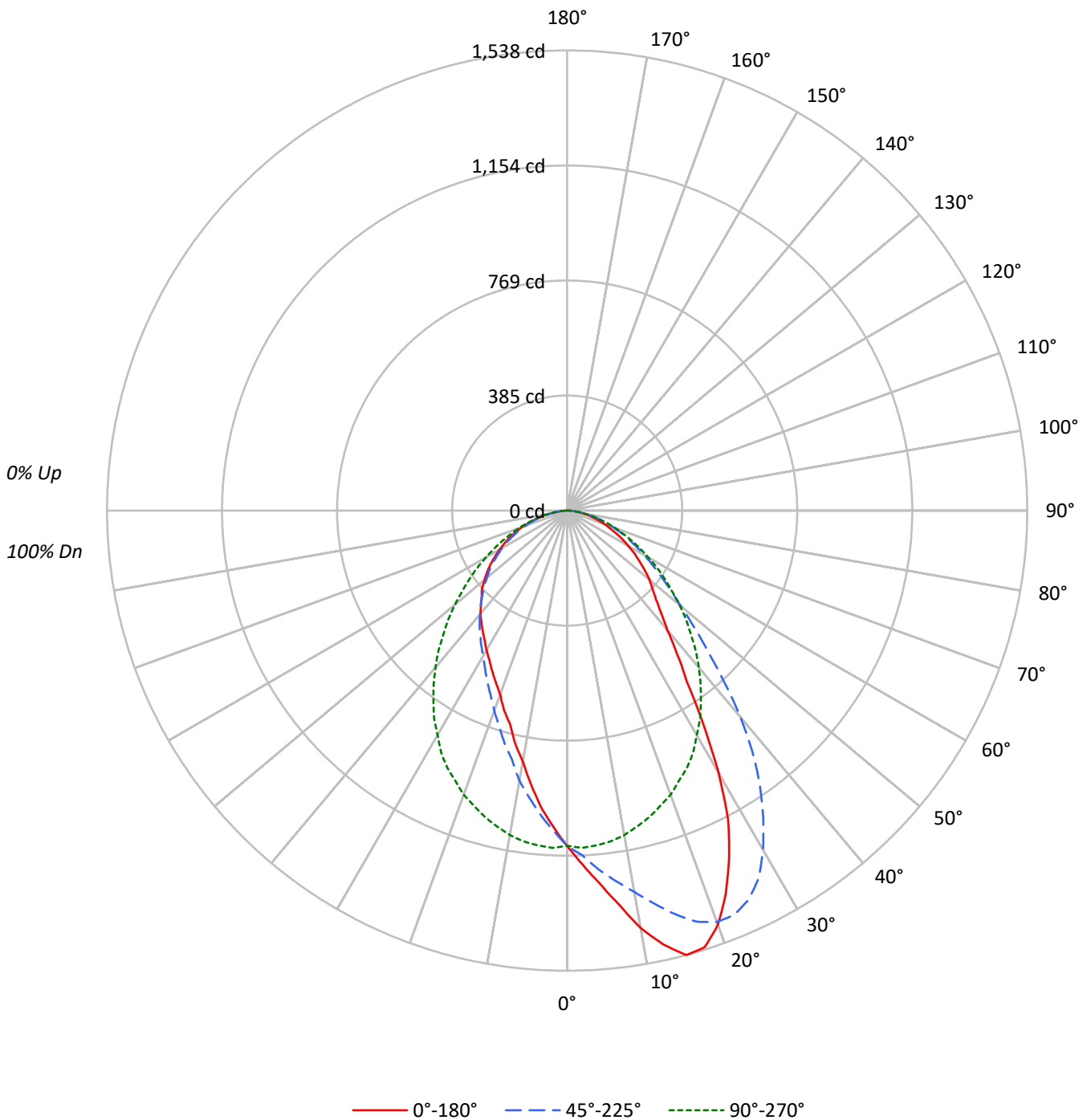
Lumens per Lamp: N/A
Luminaire Lumens: 2471.4 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.23
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 26.4
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				
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°	21339	21339	21339	21339	21339
5°	23924	23025	21478	19511	19033
10°	27415	25032	21301	17746	16471
15°	30327	27550	20911	15902	14553
20°	29864	29655	20491	14434	13265
25°	26929	30151	19934	13257	12450
30°	22254	28797	19043	12339	11855
35°	16219	26129	18112	11773	11433
40°	12955	22406	17010	11284	11199
45°	11319	17919	15740	10786	10880
50°	10641	14621	14505	10372	10665
55°	9810	12712	13254	9996	10381
60°	8987	11318	11924	9547	9939
65°	8189	10227	10731	8965	9510
70°	7435	9133	9568	8270	8872
75°	6594	8081	8272	7411	7860
80°	5671	6845	6845	6088	6329
85°	5070	5551	5070	4240	3759

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 65°
 Vertical Angle: 45°
 Luminance: 27452 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	4.3
10°-20°	310.6	12.6
20°-30°	450.7	18.2
30°-40°	475.2	19.2
40°-50°	420.4	17.0
50°-60°	335.6	13.6
60°-70°	228.0	9.2
70°-80°	116.7	4.7
80°-90°	27.6	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°	868.0	35.1
0°-40°	1343.2	54.3
0°-60°	2099.2	84.9
0°-90°	2471.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2471.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1120	1120	1120	1120	1120	
5°	1251	1204	1123	1020	995	124
15°	1538	1397	1060	806	738	426
25°	1281	1435	948	631	592	581
35°	698	1124	779	506	492	452
45°	420	665	584	400	404	329
55°	295	383	399	301	313	265
65°	182	227	238	199	211	180
75°	90	110	112	101	107	95
85°	23	25	23	19	17	26
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°	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3
2.5°	1184.9	1185.3	1186.2	1179.3	1178.4	1178.4	1172.4	1167.2	1161.2	1153.0	1153.9
5°	1251.2	1255.9	1257.6	1252.5	1244.7	1243.9	1236.5	1224.5	1213.3	1204.2	1197.8
7.5°	1327.8	1329.5	1326.1	1320.1	1314.9	1305.0	1292.9	1281.3	1264.1	1248.6	1237.4
10°	1417.4	1419.9	1412.6	1402.7	1394.5	1382.5	1362.7	1342.4	1317.9	1294.2	1275.3
12.5°	1485.4	1492.7	1482.8	1483.7	1468.2	1450.5	1426.0	1418.2	1381.2	1345.9	1325.2
15°	1537.9	1537.5	1538.3	1530.2	1519.8	1517.3	1492.3	1465.2	1416.5	1397.1	1363.5
17.5°	1530.2	1536.2	1539.6	1537.1	1535.3	1531.5	1520.7	1500.5	1473.8	1441.0	1401.0
20°	1473.3	1481.9	1483.2	1493.1	1498.7	1506.1	1509.1	1504.3	1489.3	1463.0	1429.4
22.5°	1385.5	1386.4	1391.1	1407.9	1421.7	1442.8	1454.0	1475.1	1471.6	1462.1	1435.4
25°	1281.3	1277.0	1292.1	1299.8	1327.8	1357.1	1378.2	1401.4	1422.1	1434.6	1426.4
27.5°	1165.9	1156.9	1179.7	1199.9	1219.7	1248.2	1280.0	1317.9	1346.8	1385.9	1395.4
30°	1011.8	1015.7	1037.2	1059.1	1093.6	1138.4	1175.4	1218.0	1264.1	1309.3	1340.7
32.5°	845.6	863.2	874.9	911.5	940.7	992.0	1050.5	1106.5	1166.8	1219.7	1272.7
35°	697.5	714.7	733.7	758.2	800.8	850.3	903.3	975.2	1053.6	1123.7	1181.4
37.5°	603.6	600.6	612.2	630.3	666.9	709.5	772.4	845.6	939.5	1017.4	1094.9
40°	521.0	519.2	527.0	543.4	569.6	598.9	652.3	714.7	800.4	901.1	998.0
42.5°	464.1	465.9	469.3	479.6	495.6	518.4	555.0	605.8	682.4	775.8	881.8
45°	420.2	423.2	428.0	433.6	443.9	463.7	486.1	524.0	586.0	665.2	767.7
47.5°	385.8	386.6	391.8	397.0	403.0	415.0	434.9	459.0	506.3	573.9	665.6
50°	359.1	356.1	359.5	363.4	369.8	377.6	389.6	412.0	441.3	493.4	567.0
52.5°	326.4	327.2	330.2	331.1	336.7	344.4	355.2	369.0	394.8	432.7	490.0
55°	295.4	297.5	299.2	301.8	307.0	312.6	321.2	331.5	352.2	382.8	427.5
57.5°	266.1	266.9	268.2	273.8	276.8	282.0	290.6	300.1	313.9	337.5	372.9
60°	235.9	235.9	239.4	241.5	245.8	251.0	257.5	266.5	278.6	297.1	324.2
62.5°	208.4	208.0	208.8	212.7	215.7	220.4	226.9	234.2	245.4	261.3	282.4
65°	181.7	180.8	183.4	184.3	187.7	192.5	197.6	205.8	214.8	226.9	246.7
67.5°	155.0	156.3	158.0	159.7	161.5	167.1	170.5	176.5	184.3	194.6	208.4
70°	133.5	133.5	133.5	134.8	137.3	139.9	143.4	148.1	155.4	164.0	176.1
72.5°	109.4	111.1	112.8	111.5	115.0	116.2	120.6	122.7	129.6	134.3	144.7
75°	89.6	89.6	89.6	91.7	93.0	94.3	96.9	99.5	102.9	109.8	115.4
77.5°	70.6	70.2	70.6	71.0	72.8	74.5	75.3	77.5	80.9	84.4	89.6
80°	51.7	52.5	53.0	53.8	53.8	54.7	55.1	58.1	60.3	62.4	65.4
82.5°	37.0	37.0	37.0	37.0	37.5	37.9	39.2	39.6	40.0	41.8	43.9
85°	23.2	22.8	22.8	23.7	23.2	23.2	24.1	25.0	25.0	25.4	26.7
87.5°	11.2	11.2	11.6	11.2	11.2	11.6	11.6	11.2	11.6	12.1	12.5
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°	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3
2.5°	1156.9	1153.4	1151.3	1143.5	1136.6	1129.8	1127.6	1128.5	1119.0	1110.0	1106.1
5°	1194.3	1185.7	1177.5	1165.9	1152.1	1137.1	1129.3	1123.3	1108.2	1091.9	1082.4
7.5°	1228.4	1217.2	1202.5	1181.9	1162.9	1140.5	1126.7	1115.1	1094.0	1072.1	1058.7
10°	1258.9	1242.1	1221.9	1195.2	1170.7	1141.8	1121.6	1101.3	1075.5	1048.0	1030.7
12.5°	1285.2	1261.1	1241.3	1205.1	1175.0	1137.1	1112.1	1081.5	1054.0	1020.0	1003.2
15°	1330.0	1288.2	1250.3	1211.6	1175.8	1125.5	1098.8	1060.4	1024.7	984.2	964.9
17.5°	1363.1	1317.9	1259.4	1212.4	1172.8	1119.0	1080.7	1035.0	994.6	949.8	924.0
20°	1390.7	1336.9	1272.7	1214.1	1164.2	1100.5	1057.9	1010.9	961.4	909.3	880.9
22.5°	1407.0	1349.8	1286.5	1207.7	1147.0	1085.4	1029.0	976.5	926.1	868.8	838.7
25°	1407.9	1356.2	1289.1	1204.7	1133.2	1063.0	998.4	948.5	887.8	835.3	791.8
27.5°	1393.7	1352.8	1287.8	1198.6	1117.3	1036.8	966.6	911.9	847.7	790.9	747.4
30°	1362.3	1340.7	1277.9	1188.3	1097.5	1009.2	930.0	865.8	802.1	744.4	699.6
32.5°	1313.6	1313.2	1259.8	1173.7	1076.4	974.3	891.7	826.7	754.3	697.9	655.7
35°	1246.9	1267.5	1232.7	1150.4	1048.8	941.6	852.9	778.9	705.7	651.4	611.4
37.5°	1162.0	1209.8	1196.1	1119.4	1013.5	906.7	810.3	732.8	662.6	606.6	567.5
40°	1073.8	1139.2	1148.7	1082.8	975.6	865.0	761.2	684.1	616.1	566.2	526.6
42.5°	979.1	1058.3	1088.4	1038.9	934.3	821.1	717.3	636.8	569.6	521.4	487.4
45°	871.0	972.2	1019.1	989.0	887.4	772.0	665.2	584.3	523.1	477.5	450.4
47.5°	773.3	883.1	942.9	928.7	837.0	722.5	617.0	538.2	477.5	440.5	415.0
50°	668.2	781.9	858.1	861.5	781.9	668.6	562.7	489.5	434.9	400.8	381.0
52.5°	576.9	684.1	769.0	790.9	720.3	612.7	514.1	441.3	394.8	364.2	347.0
55°	499.9	591.6	683.7	717.3	659.2	555.8	463.3	399.1	353.9	332.4	316.9
57.5°	426.7	507.2	594.6	629.9	592.9	502.0	412.5	356.1	317.7	298.4	286.3
60°	371.1	431.4	507.2	551.5	520.5	441.7	366.0	313.0	282.9	266.1	254.9
62.5°	319.5	371.1	432.3	471.9	458.5	385.3	319.5	274.3	249.3	233.8	226.5
65°	272.1	314.3	363.8	401.3	390.1	333.7	278.1	238.1	217.4	204.9	198.5
67.5°	231.6	263.9	299.2	333.7	324.2	282.4	235.5	203.2	187.3	176.1	172.2
70°	193.7	217.0	247.6	273.8	266.5	233.8	198.5	171.8	158.4	149.4	145.5
72.5°	157.6	175.7	197.2	217.4	213.1	187.3	159.3	140.8	131.3	123.1	120.1
75°	124.4	139.1	153.3	167.5	166.2	145.1	127.9	112.4	104.2	97.7	96.4
77.5°	97.3	106.3	116.7	125.7	123.6	109.8	95.6	86.1	79.7	75.3	74.9
80°	70.2	74.9	81.8	87.8	84.8	79.7	68.9	62.4	58.1	53.8	52.1
82.5°	46.1	50.8	54.2	56.8	54.7	49.9	44.3	40.5	38.3	35.7	35.3
85°	26.7	29.3	31.0	31.9	31.0	28.0	25.0	23.2	21.1	19.8	19.4
87.5°	12.9	12.9	12.9	13.8	12.5	12.5	10.8	9.5	9.0	8.6	7.7
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°	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3
2.5°	1101.8	1099.2	1090.1	1085.4	1077.7	1070.3	1065.6	1067.8	1069.5	1068.6	1067.3
5°	1073.8	1065.6	1053.1	1042.4	1034.6	1020.4	1014.4	1011.4	1008.8	1005.8	1002.7
7.5°	1042.8	1031.2	1013.5	999.7	986.0	967.9	958.8	953.7	948.1	941.6	935.6
10°	1009.2	991.1	972.2	950.7	933.4	917.5	903.3	893.8	885.2	877.0	871.0
12.5°	973.9	952.4	927.8	896.4	877.0	852.5	853.3	834.8	820.2	815.9	808.6
15°	936.0	906.7	877.0	842.2	827.1	806.4	793.5	780.6	769.0	760.8	758.6
17.5°	894.7	855.5	826.7	800.8	776.3	755.2	744.0	733.7	723.8	711.7	711.3
20°	846.0	813.3	781.0	759.1	733.7	712.1	697.5	687.2	679.0	672.5	666.9
22.5°	800.0	763.4	734.5	710.0	685.0	668.6	657.9	648.0	641.5	634.2	629.0
25°	750.0	722.0	689.7	662.6	641.9	630.8	621.3	612.7	608.4	603.6	597.6
27.5°	707.4	676.4	644.5	623.4	604.5	594.6	587.3	580.8	576.9	573.9	570.0
30°	661.8	630.3	606.6	586.0	570.9	561.0	556.7	553.3	548.5	546.8	545.1
32.5°	617.8	590.3	570.9	553.7	539.5	533.9	530.0	527.0	523.5	521.8	517.9
35°	576.9	553.3	533.4	523.5	511.9	506.3	503.3	499.0	495.6	493.8	493.4
37.5°	537.8	516.2	502.9	489.5	483.9	480.9	476.6	473.6	472.3	471.9	471.5
40°	499.9	483.1	471.5	461.1	459.0	453.8	450.4	447.8	447.8	448.2	447.8
42.5°	465.4	450.8	440.9	432.3	429.7	427.1	423.7	424.1	425.0	426.7	425.0
45°	430.5	419.8	412.5	408.2	403.4	400.4	400.0	401.3	401.7	402.1	403.4
47.5°	397.8	390.9	384.0	378.9	376.7	376.3	375.4	377.6	379.7	380.2	382.3
50°	369.4	361.2	355.6	352.6	350.9	350.0	350.9	353.5	355.2	357.4	358.6
52.5°	337.5	332.4	328.9	326.8	326.4	327.2	327.2	330.2	333.2	333.7	334.1
55°	308.7	304.4	303.5	299.7	301.4	301.0	303.1	304.8	307.4	310.0	310.4
57.5°	279.4	275.6	273.0	273.4	273.8	275.6	277.3	280.3	283.3	286.3	286.3
60°	250.1	248.4	247.1	247.1	248.0	250.6	252.7	255.7	257.5	259.2	260.5
62.5°	223.5	221.7	220.4	221.3	223.9	225.2	227.8	229.1	230.8	232.5	232.9
65°	195.0	194.2	195.5	196.3	196.8	198.9	201.9	203.2	204.9	205.8	208.8
67.5°	169.2	169.2	168.8	170.1	172.6	173.1	176.1	179.5	179.5	181.3	183.4
70°	142.9	143.8	144.7	145.5	147.7	148.5	150.7	152.0	153.7	155.0	156.3
72.5°	118.8	118.8	119.7	119.3	121.0	123.1	124.9	126.2	127.9	129.6	130.9
75°	95.2	95.2	96.0	96.4	98.6	100.7	100.3	101.2	102.9	104.6	105.5
77.5°	73.6	72.8	73.6	74.1	74.9	76.6	77.1	78.4	80.5	80.1	80.9
80°	53.0	51.7	53.0	53.4	53.4	55.5	55.5	56.4	57.7	56.4	57.7
82.5°	34.0	33.6	34.4	34.4	35.3	34.9	35.7	35.7	37.0	36.6	37.0
85°	18.9	18.5	18.9	18.5	18.9	19.4	19.4	18.9	18.9	19.8	18.5
87.5°	7.3	6.9	6.5	6.5	6.0	5.6	5.2	5.2	5.2	4.3	4.3
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: P242311

CATALOG NUMBER: S122DRP-S675D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1120.3	1120.3	1120.3	1120.3
2.5°	1063.0	1062.2	1062.2	1058.3
5°	996.7	995.4	993.3	995.4
7.5°	933.9	928.3	927.4	923.1
10°	863.7	860.2	859.8	851.6
12.5°	810.3	800.8	803.0	799.1
15°	747.0	747.0	745.3	738.0
17.5°	701.8	701.4	697.5	700.1
20°	662.2	659.6	654.4	654.4
22.5°	624.7	625.2	619.6	621.7
25°	597.2	593.7	591.1	592.4
27.5°	568.8	567.5	567.0	563.2
30°	544.6	540.3	541.2	539.0
32.5°	517.1	516.2	514.9	513.2
35°	492.5	493.0	490.8	491.7
37.5°	470.6	472.3	471.0	471.0
40°	449.1	449.1	449.1	450.4
42.5°	428.4	427.5	426.7	426.2
45°	404.3	405.6	406.0	403.9
47.5°	383.2	383.6	383.2	385.8
50°	360.8	359.9	360.8	359.9
52.5°	337.1	337.5	336.7	336.7
55°	312.1	313.0	312.6	312.6
57.5°	286.7	287.2	288.0	285.9
60°	260.1	262.2	261.8	260.9
62.5°	235.5	235.9	235.9	235.9
65°	210.1	211.0	209.7	211.0
67.5°	182.6	183.0	183.8	184.3
70°	157.2	156.7	158.0	159.3
72.5°	130.5	131.7	130.9	131.7
75°	104.6	105.9	105.5	106.8
77.5°	80.1	80.5	80.5	80.9
80°	57.7	56.8	56.0	57.7
82.5°	35.7	36.6	35.7	35.3
85°	18.5	18.1	17.2	17.2
87.5°	4.3	3.9	3.9	3.4
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P242311
 CATALOG NUMBER: S122DRP-S675D935-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	18.93	20.45	19.29	20.76	21.07	22.18	23.70	22.55	24.01	24.33
	3H	20.34	21.70	20.71	22.02	22.39	23.19	24.55	23.57	24.88	25.24
	4H	20.84	22.12	21.24	22.47	22.84	23.51	24.79	23.91	25.14	25.51
	6H	21.19	22.37	21.61	22.74	23.13	23.71	24.89	24.12	25.25	25.64
	8H	21.31	22.43	21.73	22.82	23.22	23.75	24.87	24.18	25.26	25.66
	12H	21.38	22.45	21.81	22.83	23.26	23.77	24.84	24.20	25.22	25.65
4H	2H	19.79	21.06	20.19	21.41	21.79	22.39	23.67	22.79	24.02	24.40
	3H	21.34	22.40	21.75	22.80	23.21	23.73	24.79	24.15	25.19	25.60
	4H	21.94	22.89	22.37	23.31	23.74	24.24	25.20	24.67	25.61	26.05
	6H	22.38	23.21	22.84	23.65	24.11	24.57	25.40	25.03	25.85	26.31
	8H	22.52	23.30	22.98	23.74	24.21	24.65	25.42	25.11	25.87	26.34
	12H	22.62	23.32	23.11	23.79	24.27	24.69	25.38	25.17	25.86	26.33
8H	4H	22.37	23.14	22.83	23.59	24.06	24.37	25.14	24.83	25.59	26.05
	6H	22.90	23.54	23.40	24.03	24.51	24.81	25.45	25.30	25.94	26.42
	8H	23.09	23.67	23.61	24.18	24.67	24.94	25.51	25.45	26.02	26.51
	12H	23.25	23.76	23.76	24.25	24.82	25.03	25.54	25.54	26.03	26.59
12H	4H	22.42	23.12	22.91	23.60	24.07	24.36	25.06	24.85	25.53	26.00
	6H	22.98	23.55	23.49	24.06	24.55	24.81	25.38	25.32	25.89	26.38
	8H	23.22	23.73	23.73	24.22	24.79	24.99	25.49	25.50	25.98	26.55