

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: P242316

Luminaire Tested: S122DRP-S675D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242316
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-S675D940-X4F0-XX-UDD-A-W
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

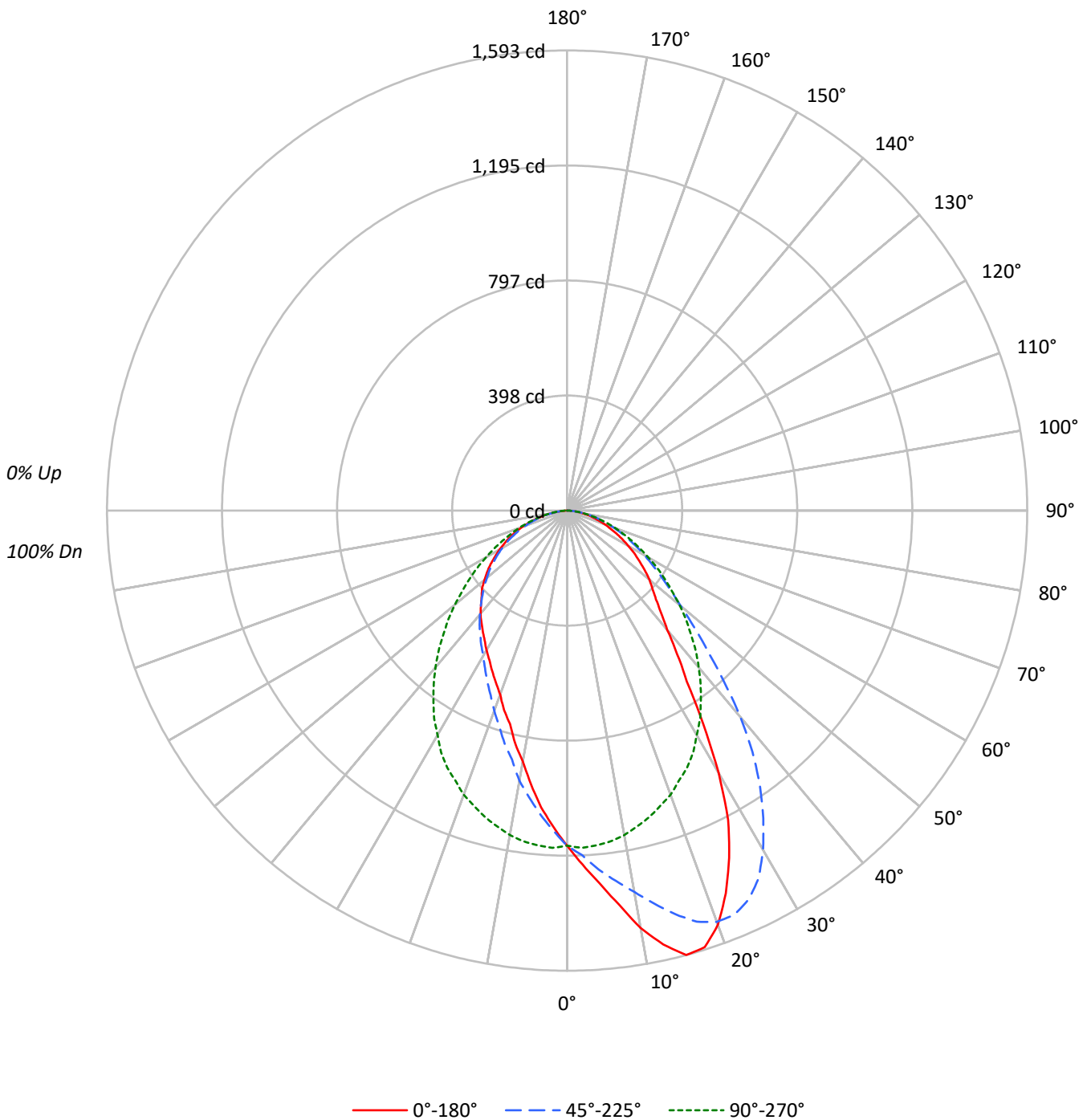
Lumens per Lamp: N/A
Luminaire Lumens: 2559.6 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.23
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (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°	22099	22099	22099	22099	22099
5°	24776	23847	22245	20207	19711
10°	28391	25925	22061	18378	17059
15°	31409	28534	21658	16470	15072
20°	30930	30713	21223	14949	13739
25°	27889	31227	20645	13730	12896
30°	23048	29824	19722	12779	12279
35°	16798	27062	18756	12194	11840
40°	13415	23207	17617	11687	11597
45°	11723	18557	16300	11171	11268
50°	11021	15142	15024	10742	11047
55°	10159	13164	13728	10351	10750
60°	9311	11722	12351	9886	10293
65°	8482	10592	11114	9285	9848
70°	7697	9462	9908	8565	9189
75°	6822	8368	8566	7676	8140
80°	5868	7097	7097	6307	6560
85°	5267	5748	5267	4393	3890

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 65°
 Vertical Angle: 45°
 Luminance: 28433 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.5	4.3
10°-20°	321.6	12.6
20°-30°	466.8	18.2
30°-40°	492.1	19.2
40°-50°	435.4	17.0
50°-60°	347.6	13.6
60°-70°	236.1	9.2
70°-80°	120.8	4.7
80°-90°	28.6	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°	899.0	35.1
0°-40°	1391.1	54.3
0°-60°	2174.1	84.9
0°-90°	2559.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2559.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1160	1160	1160	1160	1160	
5°	1296	1247	1163	1057	1031	129
15°	1593	1447	1098	835	764	441
25°	1327	1486	982	653	614	602
35°	722	1164	807	524	509	468
45°	435	689	605	415	418	341
55°	306	396	413	312	324	274
65°	188	235	247	206	218	187
75°	93	114	116	104	111	99
85°	24	26	24	20	18	27
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°	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2
2.5°	1227.1	1227.6	1228.5	1221.3	1220.4	1220.4	1214.2	1208.8	1202.6	1194.1	1195.0
5°	1295.8	1300.7	1302.5	1297.1	1289.1	1288.2	1280.6	1268.2	1256.6	1247.2	1240.5
7.5°	1375.2	1377.0	1373.4	1367.1	1361.8	1351.5	1339.1	1327.0	1309.2	1293.1	1281.5
10°	1467.9	1470.6	1463.0	1452.8	1444.3	1431.8	1411.3	1390.3	1364.9	1340.4	1320.8
12.5°	1538.4	1546.0	1535.7	1536.6	1520.5	1502.3	1476.8	1468.8	1430.5	1393.9	1372.5
15°	1592.8	1592.3	1593.2	1584.7	1574.0	1571.4	1545.5	1517.4	1467.0	1447.0	1412.2
17.5°	1584.7	1591.0	1594.6	1591.9	1590.1	1586.1	1574.9	1554.0	1526.3	1492.4	1451.0
20°	1525.9	1534.8	1536.1	1546.4	1552.2	1559.8	1562.9	1558.0	1542.4	1515.2	1480.4
22.5°	1434.9	1435.8	1440.7	1458.1	1472.4	1494.2	1505.8	1527.7	1524.1	1514.3	1486.6
25°	1327.0	1322.6	1338.2	1346.2	1375.2	1405.5	1427.3	1451.4	1472.8	1485.8	1477.3
27.5°	1207.5	1198.1	1221.8	1242.7	1263.3	1292.7	1325.7	1364.9	1394.8	1435.4	1445.2
30°	1047.9	1051.9	1074.2	1096.9	1132.6	1179.0	1217.3	1261.5	1309.2	1356.0	1388.5
32.5°	875.8	894.0	906.1	944.0	974.3	1027.4	1088.0	1146.0	1208.4	1263.3	1318.1
35°	722.4	740.2	759.8	785.2	829.4	880.7	935.5	1010.0	1091.1	1163.8	1223.6
37.5°	625.2	622.0	634.1	652.8	690.7	734.9	800.0	875.8	973.0	1053.7	1133.9
40°	539.5	537.8	545.8	562.7	589.9	620.3	675.5	740.2	828.9	933.3	1033.6
42.5°	480.7	482.5	486.0	496.7	513.2	536.9	574.8	627.4	706.8	803.5	913.2
45°	435.2	438.3	443.2	449.0	459.7	480.2	503.4	542.7	606.9	688.9	795.0
47.5°	399.5	400.4	405.8	411.1	417.4	429.9	450.4	475.3	524.4	594.4	689.4
50°	371.9	368.8	372.3	376.3	383.0	391.1	403.5	426.7	457.1	511.0	587.3
52.5°	338.0	338.9	342.0	342.9	348.7	356.7	367.9	382.1	408.9	448.1	507.4
55°	305.9	308.1	309.9	312.6	317.9	323.7	332.6	343.3	364.8	396.4	442.8
57.5°	275.6	276.5	277.8	283.6	286.7	292.1	301.0	310.8	325.1	349.6	386.2
60°	244.4	244.4	247.9	250.2	254.6	260.0	266.7	276.0	288.5	307.7	335.8
62.5°	215.8	215.4	216.3	220.3	223.4	228.3	235.0	242.6	254.2	270.7	292.5
65°	188.2	187.3	190.0	190.8	194.4	199.3	204.7	213.1	222.5	235.0	255.5
67.5°	160.5	161.9	163.6	165.4	167.2	173.0	176.6	182.8	190.8	201.5	215.8
70°	138.2	138.2	138.2	139.6	142.2	144.9	148.5	153.4	161.0	169.9	182.4
72.5°	113.3	115.0	116.8	115.5	119.1	120.4	124.9	127.1	134.2	139.1	149.8
75°	92.7	92.7	92.7	95.0	96.3	97.7	100.3	103.0	106.6	113.7	119.5
77.5°	73.1	72.7	73.1	73.6	75.4	77.1	78.0	80.3	83.8	87.4	92.7
80°	53.5	54.4	54.8	55.7	55.7	56.6	57.1	60.2	62.4	64.7	67.8
82.5°	38.3	38.3	38.3	38.3	38.8	39.2	40.6	41.0	41.5	43.3	45.5
85°	24.1	23.6	23.6	24.5	24.1	24.1	25.0	25.9	25.9	26.3	27.6
87.5°	11.6	11.6	12.0	11.6	11.6	12.0	12.0	11.6	12.0	12.5	12.9
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°	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2
2.5°	1198.1	1194.6	1192.4	1184.3	1177.2	1170.1	1167.8	1168.7	1158.9	1149.5	1145.5
5°	1236.9	1228.0	1219.6	1207.5	1193.2	1177.6	1169.6	1163.4	1147.8	1130.8	1121.0
7.5°	1272.2	1260.6	1245.4	1224.0	1204.4	1181.2	1166.9	1154.9	1133.0	1110.3	1096.5
10°	1303.8	1286.4	1265.5	1237.8	1212.4	1182.5	1161.6	1140.6	1113.9	1085.3	1067.5
12.5°	1331.0	1306.1	1285.5	1248.1	1216.9	1177.6	1151.8	1120.1	1091.6	1056.3	1039.0
15°	1377.4	1334.1	1294.9	1254.8	1217.8	1165.6	1138.0	1098.3	1061.3	1019.3	999.3
17.5°	1411.7	1364.9	1304.3	1255.7	1214.6	1158.9	1119.2	1072.0	1030.0	983.7	956.9
20°	1440.3	1384.5	1318.1	1257.5	1205.7	1139.7	1095.6	1047.0	995.7	941.8	912.3
22.5°	1457.2	1397.9	1332.4	1250.8	1187.9	1124.1	1065.7	1011.3	959.1	899.8	868.6
25°	1458.1	1404.6	1335.0	1247.6	1173.6	1100.9	1034.1	982.3	919.5	865.1	820.0
27.5°	1443.4	1401.0	1333.7	1241.4	1157.1	1073.7	1001.1	944.4	878.0	819.1	774.1
30°	1410.8	1388.5	1323.4	1230.7	1136.6	1045.2	963.2	896.7	830.7	771.0	724.6
32.5°	1360.5	1360.0	1304.7	1215.5	1114.8	1009.1	923.5	856.1	781.2	722.8	679.1
35°	1291.3	1312.7	1276.6	1191.5	1086.2	975.2	883.3	806.6	730.8	674.7	633.2
37.5°	1203.5	1253.0	1238.7	1159.4	1049.7	939.1	839.2	758.9	686.2	628.3	587.7
40°	1112.1	1179.9	1189.7	1121.5	1010.4	895.8	788.4	708.5	638.1	586.4	545.3
42.5°	1014.0	1096.0	1127.2	1076.0	967.6	850.3	742.9	659.5	589.9	540.0	504.8
45°	902.1	1006.9	1055.5	1024.2	919.0	799.5	688.9	605.1	541.8	494.5	466.4
47.5°	800.8	914.6	976.5	961.8	866.8	748.2	639.0	557.4	494.5	456.2	429.9
50°	692.0	809.8	888.7	892.3	809.8	692.5	582.8	507.0	450.4	415.1	394.6
52.5°	597.5	708.5	796.4	819.1	746.0	634.5	532.4	457.1	408.9	377.2	359.4
55°	517.7	612.7	708.1	742.9	682.7	575.7	479.8	413.4	366.5	344.2	328.2
57.5°	441.9	525.3	615.8	652.4	614.0	519.9	427.2	368.8	329.1	309.0	296.5
60°	384.4	446.8	525.3	571.2	539.1	457.5	379.0	324.2	293.0	275.6	264.0
62.5°	330.9	384.4	447.7	488.7	474.9	399.1	330.9	284.0	258.2	242.1	234.5
65°	281.8	325.5	376.8	415.6	404.0	345.6	288.1	246.6	225.2	212.3	205.6
67.5°	239.9	273.3	309.9	345.6	335.8	292.5	243.9	210.5	194.0	182.4	178.4
70°	200.7	224.7	256.4	283.6	276.0	242.1	205.6	177.9	164.1	154.7	150.7
72.5°	163.2	181.9	204.2	225.2	220.7	194.0	165.0	145.8	136.0	127.5	124.4
75°	128.9	144.0	158.7	173.5	172.1	150.3	132.4	116.4	107.9	101.2	99.9
77.5°	100.8	110.1	120.8	130.2	128.0	113.7	99.0	89.2	82.5	78.0	77.6
80°	72.7	77.6	84.7	91.0	87.8	82.5	71.3	64.7	60.2	55.7	54.0
82.5°	47.7	52.6	56.2	58.9	56.6	51.7	45.9	41.9	39.7	37.0	36.6
85°	27.6	30.3	32.1	33.0	32.1	29.0	25.9	24.1	21.8	20.5	20.1
87.5°	13.4	13.4	13.4	14.3	12.9	12.9	11.1	9.8	9.4	8.9	8.0
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°	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2
2.5°	1141.1	1138.4	1129.0	1124.1	1116.1	1108.5	1103.6	1105.8	1107.6	1106.7	1105.4
5°	1112.1	1103.6	1090.7	1079.5	1071.5	1056.8	1050.6	1047.4	1044.8	1041.6	1038.5
7.5°	1080.0	1067.9	1049.7	1035.4	1021.1	1002.4	993.0	987.7	981.9	975.2	969.0
10°	1045.2	1026.5	1006.9	984.6	966.7	950.2	935.5	925.7	916.8	908.3	902.1
12.5°	1008.6	986.3	960.9	928.4	908.3	882.9	883.8	864.6	849.4	845.0	837.4
15°	969.4	939.1	908.3	872.2	856.6	835.2	821.8	808.4	796.4	787.9	785.7
17.5°	926.6	886.0	856.1	829.4	804.0	782.1	770.5	759.8	749.6	737.1	736.6
20°	876.2	842.3	808.9	786.1	759.8	737.5	722.4	711.7	703.2	696.5	690.7
22.5°	828.5	790.6	760.7	735.3	709.4	692.5	681.3	671.1	664.4	656.8	651.5
25°	776.8	747.8	714.3	686.2	664.8	653.3	643.4	634.5	630.1	625.2	618.9
27.5°	732.6	700.5	667.5	645.7	626.1	615.8	608.2	601.5	597.5	594.4	590.4
30°	685.4	652.8	628.3	606.9	591.3	581.0	576.6	573.0	568.1	566.3	564.5
32.5°	639.9	611.3	591.3	573.4	558.7	552.9	548.9	545.8	542.2	540.4	536.4
35°	597.5	573.0	552.5	542.2	530.2	524.4	521.3	516.8	513.2	511.5	511.0
37.5°	556.9	534.6	520.8	507.0	501.2	498.1	493.6	490.5	489.2	488.7	488.3
40°	517.7	500.3	488.3	477.6	475.3	470.0	466.4	463.7	463.7	464.2	463.7
42.5°	482.0	466.9	456.6	447.7	445.0	442.3	438.8	439.2	440.1	441.9	440.1
45°	445.9	434.8	427.2	422.7	417.8	414.7	414.2	415.6	416.0	416.5	417.8
47.5°	412.0	404.9	397.7	392.4	390.2	389.7	388.8	391.1	393.3	393.7	396.0
50°	382.6	374.1	368.3	365.2	363.4	362.5	363.4	366.1	367.9	370.1	371.4
52.5°	349.6	344.2	340.7	338.4	338.0	338.9	338.9	342.0	345.1	345.6	346.0
55°	319.7	315.3	314.4	310.4	312.1	311.7	313.9	315.7	318.4	321.1	321.5
57.5°	289.4	285.4	282.7	283.1	283.6	285.4	287.2	290.3	293.4	296.5	296.5
60°	259.1	257.3	255.9	255.9	256.8	259.5	261.7	264.9	266.7	268.4	269.8
62.5°	231.4	229.6	228.3	229.2	231.9	233.2	235.9	237.2	239.0	240.8	241.2
65°	202.0	201.1	202.4	203.3	203.8	206.0	209.1	210.5	212.3	213.1	216.3
67.5°	175.2	175.2	174.8	176.1	178.8	179.3	182.4	185.9	185.9	187.7	190.0
70°	148.0	148.9	149.8	150.7	152.9	153.8	156.1	157.4	159.2	160.5	161.9
72.5°	123.1	123.1	124.0	123.5	125.3	127.5	129.3	130.7	132.4	134.2	135.6
75°	98.5	98.5	99.4	99.9	102.1	104.3	103.9	104.8	106.6	108.4	109.2
77.5°	76.2	75.4	76.2	76.7	77.6	79.4	79.8	81.2	83.4	82.9	83.8
80°	54.8	53.5	54.8	55.3	55.3	57.5	57.5	58.4	59.8	58.4	59.8
82.5°	35.2	34.8	35.7	35.7	36.6	36.1	37.0	37.0	38.3	37.9	38.3
85°	19.6	19.2	19.6	19.2	19.6	20.1	20.1	19.6	19.6	20.5	19.2
87.5°	7.6	7.1	6.7	6.7	6.2	5.8	5.4	5.4	5.4	4.5	4.5
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: P242316

CATALOG NUMBER: S122DRP-S675D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1160.2	1160.2	1160.2	1160.2
2.5°	1100.9	1100.0	1100.0	1096.0
5°	1032.3	1030.9	1028.7	1030.9
7.5°	967.2	961.4	960.5	956.0
10°	894.5	890.9	890.5	882.0
12.5°	839.2	829.4	831.6	827.6
15°	773.6	773.6	771.9	764.3
17.5°	726.8	726.4	722.4	725.0
20°	685.8	683.1	677.8	677.8
22.5°	647.0	647.5	641.7	643.9
25°	618.5	614.9	612.2	613.6
27.5°	589.0	587.7	587.3	583.2
30°	564.1	559.6	560.5	558.3
32.5°	535.5	534.6	533.3	531.5
35°	510.1	510.6	508.3	509.2
37.5°	487.4	489.2	487.8	487.8
40°	465.1	465.1	465.1	466.4
42.5°	443.7	442.8	441.9	441.4
45°	418.7	420.0	420.5	418.3
47.5°	396.9	397.3	396.9	399.5
50°	373.7	372.8	373.7	372.8
52.5°	349.1	349.6	348.7	348.7
55°	323.3	324.2	323.7	323.7
57.5°	297.0	297.4	298.3	296.1
60°	269.3	271.6	271.1	270.2
62.5°	243.9	244.4	244.4	244.4
65°	217.6	218.5	217.2	218.5
67.5°	189.1	189.5	190.4	190.8
70°	162.8	162.3	163.6	165.0
72.5°	135.1	136.4	135.6	136.4
75°	108.4	109.7	109.2	110.6
77.5°	82.9	83.4	83.4	83.8
80°	59.8	58.9	58.0	59.8
82.5°	37.0	37.9	37.0	36.6
85°	19.2	18.7	17.8	17.8
87.5°	4.5	4.0	4.0	3.6
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P242316

CATALOG NUMBER: S122DRP-S675D940-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	19.05	20.57	19.42	20.88	21.20	22.31	23.82	22.67	24.14	24.45
	3H	20.46	21.82	20.84	22.15	22.51	23.31	24.68	23.69	25.00	25.36
	4H	20.96	22.24	21.36	22.59	22.97	23.63	24.91	24.03	25.26	25.64
	6H	21.32	22.50	21.73	22.86	23.25	23.83	25.01	24.24	25.37	25.77
	8H	21.43	22.55	21.85	22.94	23.34	23.87	25.00	24.30	25.38	25.79
	12H	21.50	22.57	21.93	22.96	23.39	23.89	24.96	24.32	25.35	25.78
4H	2H	19.91	21.19	20.31	21.54	21.91	22.52	23.79	22.92	24.14	24.52
	3H	21.47	22.53	21.88	22.93	23.33	23.86	24.92	24.27	25.32	25.72
	4H	22.06	23.01	22.49	23.43	23.87	24.36	25.32	24.80	25.73	26.17
	6H	22.50	23.33	22.96	23.78	24.23	24.70	25.53	25.15	25.97	26.43
	8H	22.64	23.42	23.11	23.86	24.33	24.77	25.55	25.23	25.99	26.46
	12H	22.75	23.44	23.23	23.92	24.39	24.81	25.50	25.29	25.98	26.45
8H	4H	22.49	23.27	22.95	23.71	24.18	24.49	25.26	24.95	25.71	26.18
	6H	23.02	23.66	23.52	24.15	24.63	24.93	25.57	25.42	26.06	26.54
	8H	23.22	23.79	23.73	24.30	24.79	25.06	25.64	25.58	26.14	26.63
	12H	23.37	23.88	23.88	24.37	24.94	25.15	25.66	25.66	26.15	26.72
12H	4H	22.55	23.24	23.03	23.72	24.19	24.48	25.18	24.97	25.66	26.13
	6H	23.10	23.67	23.61	24.18	24.67	24.93	25.50	25.44	26.01	26.50
	8H	23.34	23.85	23.85	24.34	24.91	25.11	25.61	25.62	26.11	26.67