

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: P243161

Luminaire Tested: S122DRP-H675D840-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243161
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-H675D840-X4F0-XX-UDD-A-W
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

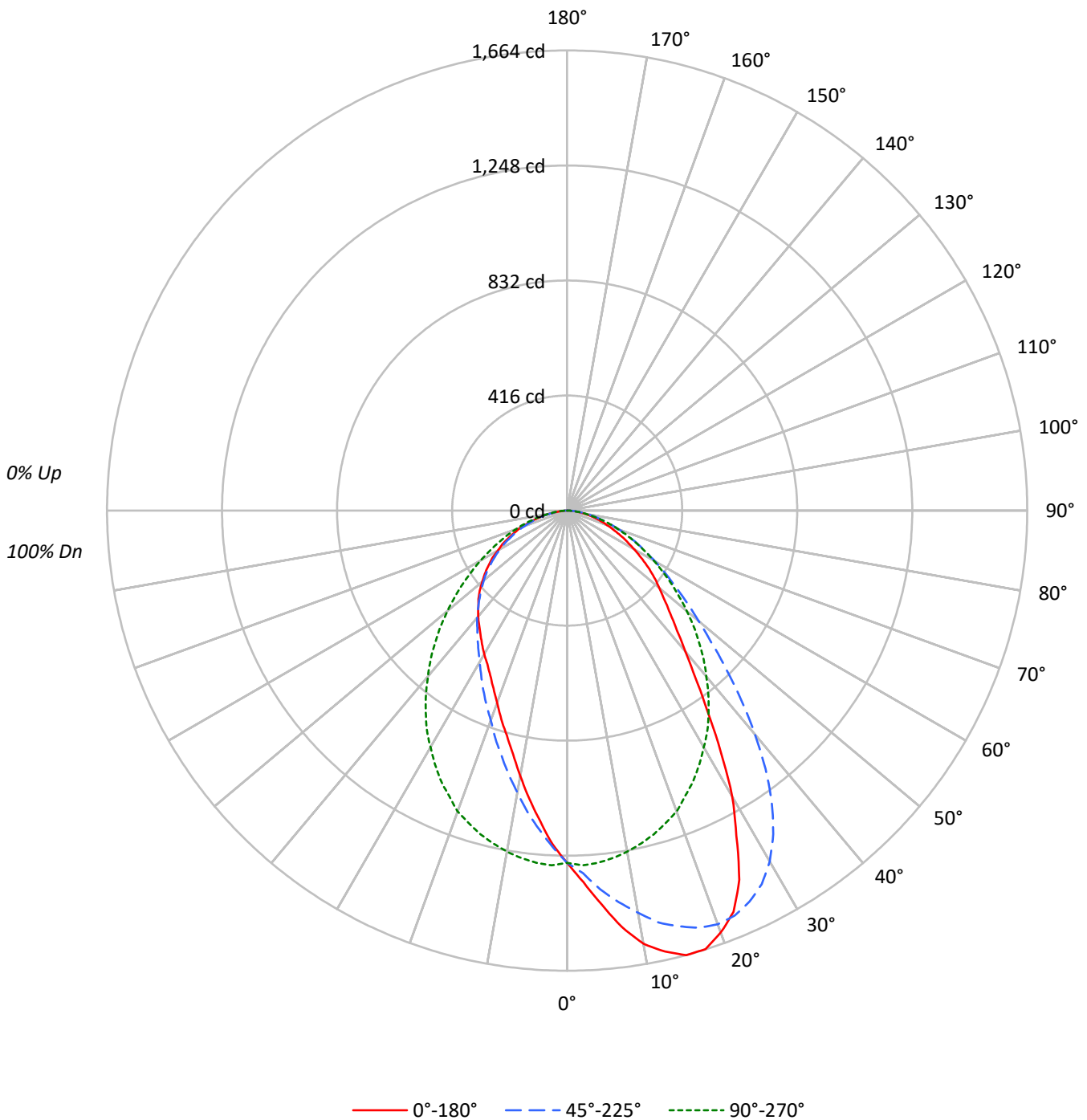
Lumens per Lamp: N/A
Luminaire Lumens: 2827.0 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.24
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 23.6
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	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76					74				
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66					63				
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57					55				
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51					49				
6	73	61	52	46	72	60	52	46	58	51	46	57	50	45	55	49	45					43				
7	68	56	47	41	67	55	47	41	53	46	41	52	46	41	51	45	40					39				
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37					35				
9	60	47	39	34	58	46	39	34	45	38	34	44	38	34	43	38	33					32				
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	24267	24267	24267	24267	24267
5°	27335	26289	24442	22134	21530
10°	30770	28554	24221	20036	18841
15°	32821	30692	23896	18085	16606
20°	32917	32276	23465	16354	14986
25°	30958	32790	22683	15063	13814
30°	26279	32231	21737	13896	13192
35°	20546	30020	20723	13124	12696
40°	16508	26250	19474	12592	12450
45°	14199	22000	18188	12065	12219
50°	12881	18346	16740	11667	11877
55°	11869	15767	15249	11211	11557
60°	10671	13901	13741	10686	11029
65°	9605	12431	12345	10010	10497
70°	8560	11027	10977	9167	9818
75°	7705	9611	9442	8117	8603
80°	6724	7964	7602	6625	6724
85°	5770	6600	5660	4437	3715

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 65°
 Vertical Angle: 45°
 Luminance: 30421 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.4	4.3
10°-20°	348.9	12.3
20°-30°	507.3	17.9
30°-40°	544.2	19.3
40°-50°	487.8	17.3
50°-60°	388.8	13.8
60°-70°	263.0	9.3
70°-80°	134.2	4.7
80°-90°	31.4	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°	977.6	34.6
0°-40°	1521.8	53.8
0°-60°	2398.4	84.8
0°-90°	2827.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2827.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1274	1274	1274	1274	1274	
5°	1430	1375	1278	1158	1126	142
15°	1664	1556	1212	917	842	466
25°	1473	1560	1079	717	657	663
35°	884	1291	891	564	546	560
45°	527	817	675	448	454	412
55°	357	475	459	338	348	319
65°	213	276	274	222	233	211
75°	105	131	128	110	117	112
85°	26	30	26	20	17	31
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°	1274.0	1274.0	1274.0	1274.0	1274.0	1274.0	1274.0	1274.0	1274.0	1274.0	1274.0
2.5°	1344.7	1349.0	1345.2	1343.8	1341.0	1340.0	1332.5	1326.4	1322.6	1312.2	1313.2
5°	1429.6	1439.0	1433.9	1433.4	1423.0	1416.4	1409.8	1400.4	1386.2	1374.9	1366.0
7.5°	1519.2	1514.5	1513.1	1507.9	1500.3	1490.9	1476.3	1462.6	1444.7	1428.2	1415.9
10°	1590.9	1589.5	1591.8	1578.6	1573.9	1559.3	1546.5	1525.3	1502.2	1476.3	1460.3
12.5°	1633.3	1637.5	1640.8	1635.7	1624.3	1620.1	1598.9	1569.2	1561.2	1525.8	1506.5
15°	1664.4	1666.3	1666.8	1661.1	1655.5	1644.6	1631.9	1613.0	1587.1	1556.4	1541.8
17.5°	1662.5	1662.1	1664.9	1661.6	1658.3	1655.0	1645.1	1630.5	1610.2	1581.4	1556.9
20°	1623.9	1632.4	1639.0	1640.4	1639.9	1641.8	1637.1	1627.6	1613.0	1592.3	1564.5
22.5°	1571.1	1567.8	1581.9	1581.0	1587.1	1601.2	1607.4	1603.6	1597.9	1584.7	1562.6
25°	1473.0	1476.3	1486.2	1496.6	1520.6	1529.1	1547.5	1561.6	1563.5	1560.2	1546.5
27.5°	1325.9	1349.5	1354.6	1368.3	1401.8	1429.6	1466.9	1489.0	1520.6	1523.4	1517.3
30°	1194.8	1193.9	1201.9	1226.4	1257.0	1299.0	1347.1	1404.2	1440.5	1465.4	1474.4
32.5°	1033.5	1037.3	1058.1	1088.2	1119.4	1161.3	1217.0	1286.7	1335.3	1387.2	1416.4
35°	883.6	895.4	915.2	935.9	969.9	1027.4	1089.2	1147.2	1221.7	1291.0	1338.1
37.5°	760.1	776.1	791.2	811.0	844.0	888.3	944.0	1020.8	1094.8	1178.3	1247.6
40°	663.9	670.0	680.4	699.7	721.9	766.2	822.3	879.8	960.0	1055.7	1146.7
42.5°	588.4	587.0	598.3	610.6	630.9	663.9	712.9	770.4	850.1	935.0	1026.9
45°	527.1	527.6	532.3	545.1	561.1	580.0	617.7	671.9	732.3	816.7	914.3
47.5°	477.2	478.6	485.7	494.6	504.0	521.5	546.5	581.8	638.4	709.1	800.6
50°	434.7	437.1	441.8	448.4	455.5	467.7	486.6	514.4	559.2	619.1	702.1
52.5°	397.0	398.0	399.4	405.5	411.2	422.5	436.6	458.3	493.7	543.6	608.2
55°	357.4	356.5	359.8	364.9	370.1	378.1	392.8	410.2	435.2	474.8	528.1
57.5°	316.9	318.3	320.6	323.5	332.9	341.4	352.2	368.2	388.1	419.2	463.5
60°	280.1	280.1	282.9	286.7	292.8	298.5	308.8	323.5	340.9	364.9	402.2
62.5°	244.2	246.1	249.0	250.8	256.5	263.6	271.6	282.9	298.9	318.3	346.1
65°	213.1	212.2	215.0	218.8	223.0	227.7	236.7	246.1	258.4	275.8	298.9
67.5°	181.1	183.9	184.8	186.7	190.0	196.1	200.4	210.3	220.2	235.8	255.1
70°	153.7	155.6	157.0	159.4	162.2	165.0	169.3	177.3	187.2	198.0	211.7
72.5°	129.2	130.6	129.2	131.6	133.0	135.8	141.5	145.2	152.8	162.2	174.5
75°	104.7	105.6	105.1	107.5	108.0	110.8	113.6	116.9	125.4	130.6	139.1
77.5°	82.0	83.0	83.5	84.4	85.3	86.8	88.2	91.5	96.2	100.9	107.5
80°	61.3	61.3	62.7	63.2	63.7	64.6	67.0	67.9	71.2	72.6	77.8
82.5°	42.4	42.9	43.4	43.4	43.9	44.8	45.3	47.2	48.1	50.5	52.8
85°	26.4	26.9	26.9	26.9	28.3	27.8	27.8	28.8	30.2	30.2	31.1
87.5°	13.2	13.7	13.7	13.7	14.1	14.1	14.1	14.1	14.1	15.1	14.6
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°	1274.0	1274.0	1274.0	1274.0	1274.0	1274.0	1274.0	1274.0	1274.0	1274.0	1274.0
2.5°	1312.7	1312.2	1310.3	1301.8	1295.2	1286.7	1285.3	1283.9	1272.1	1259.4	1255.6
5°	1358.9	1350.4	1338.6	1324.5	1310.3	1294.8	1285.8	1278.3	1260.3	1240.5	1229.2
7.5°	1404.2	1387.6	1369.3	1347.1	1323.5	1298.5	1282.5	1267.4	1242.9	1217.0	1201.4
10°	1442.8	1420.7	1395.2	1366.0	1333.4	1299.5	1275.9	1252.3	1221.2	1189.6	1168.9
12.5°	1474.9	1446.6	1413.1	1373.5	1343.8	1297.1	1264.1	1233.0	1198.6	1157.6	1134.9
15°	1499.4	1471.6	1426.3	1386.2	1347.1	1284.9	1244.8	1211.8	1165.6	1125.5	1089.7
17.5°	1529.1	1489.5	1444.7	1387.2	1343.8	1272.6	1227.3	1184.4	1134.4	1087.3	1047.7
20°	1542.3	1500.8	1452.7	1388.6	1333.4	1259.4	1199.0	1157.6	1097.2	1043.0	998.2
22.5°	1544.2	1504.6	1452.2	1384.3	1315.5	1240.1	1170.8	1116.5	1056.2	998.7	948.2
25°	1536.2	1498.5	1444.2	1376.8	1295.7	1219.3	1142.0	1079.3	1009.5	950.1	898.7
27.5°	1514.5	1483.8	1432.4	1360.3	1275.4	1187.3	1102.9	1034.5	965.6	898.2	849.2
30°	1479.6	1459.3	1415.0	1338.6	1249.5	1152.4	1068.0	988.3	913.8	850.6	797.8
32.5°	1434.8	1424.9	1388.1	1312.7	1223.1	1114.2	1026.0	944.0	862.9	803.0	748.8
35°	1377.7	1382.9	1351.8	1283.4	1189.6	1075.5	977.0	891.2	811.9	748.3	698.3
37.5°	1303.7	1329.2	1309.4	1245.3	1146.7	1036.4	925.6	839.3	756.3	695.0	651.2
40°	1220.7	1265.5	1256.1	1202.3	1100.5	990.6	876.1	783.2	702.1	644.1	602.1
42.5°	1123.1	1188.2	1198.6	1150.0	1054.8	933.6	820.4	730.8	652.6	595.5	555.4
45°	1013.7	1094.4	1129.3	1091.1	1001.5	878.4	763.4	675.2	597.9	549.3	515.8
47.5°	903.9	1001.0	1048.2	1029.8	939.2	819.5	706.8	620.5	547.4	505.0	473.4
50°	795.4	899.6	968.5	956.2	877.9	763.4	649.7	564.9	497.9	458.8	431.9
52.5°	700.2	798.7	873.7	879.8	809.6	699.2	589.4	510.6	453.6	418.2	395.6
55°	606.4	697.8	779.9	795.0	737.9	631.8	533.7	459.2	407.4	378.1	359.8
57.5°	522.4	605.4	687.0	713.4	667.2	571.5	473.9	408.3	363.5	340.9	324.9
60°	451.2	526.2	596.5	623.3	591.7	504.5	419.2	360.7	323.5	303.2	290.4
62.5°	389.0	447.0	509.2	538.9	517.7	441.8	367.3	315.4	285.3	267.8	257.9
65°	332.9	377.7	426.7	461.1	437.6	381.0	318.7	273.9	248.5	232.5	225.4
67.5°	281.0	318.3	357.4	384.8	373.0	321.6	269.2	234.3	213.1	200.9	194.3
70°	233.9	261.7	293.3	314.5	306.0	266.4	224.9	197.1	179.2	170.7	165.0
72.5°	191.9	209.8	233.9	251.3	242.4	214.5	184.8	162.7	149.5	139.6	135.3
75°	152.3	167.9	184.8	196.6	189.5	168.8	145.2	128.3	119.3	113.2	110.3
77.5°	115.5	127.8	139.6	145.2	141.9	126.8	110.8	97.6	90.1	86.3	83.0
80°	83.0	90.1	98.1	103.3	101.4	91.0	79.7	69.3	66.0	61.3	60.4
82.5°	55.6	61.3	63.2	65.5	64.1	59.4	51.4	45.3	42.4	40.1	39.6
85°	33.0	34.4	36.8	36.8	35.4	32.1	27.8	25.9	23.1	22.6	21.2
87.5°	14.6	14.6	14.6	14.6	14.6	13.7	11.8	10.8	9.9	9.4	9.0
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°	1274.0	1274.0	1274.0	1274.0	1274.0	1274.0	1274.0	1274.0	1274.0	1274.0	1274.0
2.5°	1252.3	1247.6	1241.0	1233.5	1226.9	1216.5	1213.2	1213.2	1215.5	1212.7	1210.4
5°	1219.8	1210.4	1200.9	1186.3	1174.1	1157.6	1152.8	1148.1	1147.7	1142.9	1136.8
7.5°	1184.9	1170.8	1151.4	1130.7	1117.5	1099.6	1089.7	1086.8	1077.9	1069.4	1059.5
10°	1144.4	1122.7	1099.6	1079.8	1059.0	1035.9	1024.1	1016.1	1007.1	996.8	989.7
12.5°	1095.3	1070.8	1049.6	1026.5	1009.0	976.5	972.7	962.3	944.4	928.9	923.2
15°	1065.1	1022.2	998.2	977.0	950.6	917.1	904.8	893.5	876.5	866.6	858.6
17.5°	1011.9	973.2	943.0	914.7	889.3	863.3	844.9	835.5	821.8	813.4	805.3
20°	963.3	921.3	889.7	856.7	830.3	806.8	791.2	779.4	772.3	763.8	755.8
22.5°	914.3	870.4	840.2	806.8	775.6	761.5	743.1	733.2	723.8	717.2	708.7
25°	857.2	822.3	784.6	758.7	731.3	716.7	699.2	689.8	682.3	674.7	670.5
27.5°	806.3	770.9	736.0	710.1	687.0	672.8	662.0	653.0	643.6	638.0	634.7
30°	753.5	720.9	690.3	665.3	647.4	631.8	625.2	616.7	609.7	607.3	602.1
32.5°	706.3	670.0	645.5	622.9	607.8	596.9	592.2	583.3	581.8	579.5	576.7
35°	659.2	628.0	604.5	585.1	572.4	564.4	558.3	555.9	553.6	551.2	548.8
37.5°	612.5	588.0	565.8	550.3	539.9	533.7	532.3	527.6	527.1	523.8	523.8
40°	570.5	545.5	530.0	517.7	509.2	506.4	502.6	501.7	500.3	499.3	501.2
42.5°	528.6	511.6	498.4	485.7	479.1	476.7	475.8	474.3	473.4	476.2	477.2
45°	489.4	474.8	463.5	454.5	450.8	447.9	447.9	449.3	448.9	450.3	450.3
47.5°	453.1	439.9	430.5	427.2	422.5	421.5	422.0	421.5	423.9	425.8	427.7
50°	418.7	406.9	399.4	396.1	395.1	393.7	395.6	396.5	398.0	399.8	400.8
52.5°	380.5	374.8	370.1	366.8	366.4	366.8	366.4	369.7	371.1	373.9	373.4
55°	348.0	343.7	340.4	336.7	336.2	337.6	338.5	341.4	343.3	345.6	345.1
57.5°	317.3	314.0	310.3	309.3	308.8	309.3	313.6	313.1	315.9	317.8	318.7
60°	283.8	281.5	278.2	278.2	279.6	280.5	282.0	284.3	287.1	286.7	290.0
62.5°	253.2	250.4	249.4	250.8	250.4	252.7	254.1	254.1	257.9	259.3	260.3
65°	222.6	221.6	220.2	220.2	221.6	222.1	224.4	225.9	227.3	230.1	232.5
67.5°	193.8	191.4	191.4	190.5	192.4	193.8	195.2	197.1	198.0	201.3	202.7
70°	163.6	162.7	162.2	163.1	163.1	164.6	166.9	169.3	171.2	171.6	174.5
72.5°	134.4	134.4	134.4	135.8	136.7	138.2	138.6	140.5	143.3	143.8	145.2
75°	108.0	108.4	108.0	108.4	108.9	110.3	111.3	113.2	115.0	115.5	116.5
77.5°	83.5	82.5	81.6	83.0	83.9	86.8	86.3	87.2	89.1	88.2	89.1
80°	58.5	59.9	58.0	60.8	60.8	60.4	61.3	62.7	62.2	63.2	62.2
82.5°	39.6	38.2	38.2	39.6	40.1	38.7	39.6	40.1	40.5	39.6	39.1
85°	21.7	21.2	22.2	20.7	21.2	20.3	20.3	19.3	20.3	19.3	18.4
87.5°	8.0	7.5	8.0	6.6	6.1	5.7	5.2	5.2	4.2	4.2	4.2
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: P243161

CATALOG NUMBER: S122DRP-H675D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1274.0	1274.0	1274.0	1274.0
2.5°	1213.7	1208.5	1206.1	1208.0
5°	1130.2	1131.6	1123.1	1126.0
7.5°	1058.1	1051.9	1053.8	1050.5
10°	981.7	978.4	973.2	974.1
12.5°	930.3	908.1	906.7	902.5
15°	858.1	845.9	843.1	842.1
17.5°	800.6	790.2	794.0	791.2
20°	748.8	749.2	743.1	739.3
22.5°	703.0	702.1	699.7	695.9
25°	664.4	664.4	658.7	657.3
27.5°	629.0	629.9	625.2	625.2
30°	602.6	599.3	598.8	599.8
32.5°	576.2	572.4	572.9	572.4
35°	547.9	548.8	547.4	546.0
37.5°	523.8	523.8	523.8	522.4
40°	500.3	501.2	499.8	500.7
42.5°	476.7	477.2	477.2	475.3
45°	453.1	452.6	451.7	453.6
47.5°	428.6	428.6	428.1	429.1
50°	401.7	402.7	401.3	400.8
52.5°	374.4	374.8	374.4	375.3
55°	346.6	346.6	347.0	348.0
57.5°	317.8	321.1	318.7	320.6
60°	289.5	290.0	290.4	289.5
62.5°	262.6	262.2	262.6	264.0
65°	233.4	234.3	233.9	232.9
67.5°	204.6	203.7	205.1	203.7
70°	174.0	175.9	174.5	176.3
72.5°	146.2	145.7	146.6	144.3
75°	116.9	116.9	117.4	116.9
77.5°	89.6	88.6	88.2	86.8
80°	61.8	61.8	59.9	61.3
82.5°	37.7	38.2	38.7	35.8
85°	17.9	17.9	17.4	17.0
87.5°	3.8	3.8	4.2	4.7
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243161
 CATALOG NUMBER: S122DRP-H675D840-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	19.73	21.25	20.09	21.56	21.88	22.57	24.09	22.93	24.40	24.72
	3H	21.08	22.45	21.46	22.77	23.14	23.59	24.95	23.96	25.28	25.64
	4H	21.57	22.85	21.97	23.20	23.57	23.91	25.19	24.31	25.54	25.92
	6H	21.92	23.10	22.33	23.47	23.86	24.11	25.29	24.52	25.66	26.05
	8H	22.02	23.15	22.45	23.54	23.94	24.15	25.28	24.58	25.67	26.07
	12H	22.09	23.17	22.52	23.55	23.98	24.17	25.25	24.60	25.63	26.06
4H	2H	20.61	21.89	21.01	22.24	22.62	22.81	24.09	23.21	24.44	24.82
	3H	22.11	23.17	22.52	23.57	23.97	24.18	25.24	24.59	25.64	26.04
	4H	22.68	23.63	23.11	24.05	24.49	24.69	25.65	25.12	26.06	26.50
	6H	23.11	23.95	23.57	24.39	24.85	25.02	25.86	25.48	26.30	26.76
	8H	23.25	24.03	23.71	24.47	24.94	25.10	25.88	25.56	26.32	26.79
	12H	23.35	24.04	23.83	24.52	24.99	25.14	25.83	25.62	26.31	26.78
8H	4H	23.11	23.89	23.58	24.33	24.80	24.83	25.61	25.29	26.05	26.52
	6H	23.64	24.28	24.13	24.77	25.25	25.27	25.91	25.77	26.40	26.88
	8H	23.82	24.40	24.34	24.91	25.40	25.40	25.98	25.92	26.49	26.98
	12H	23.98	24.49	24.49	24.98	25.54	25.49	26.00	26.00	26.49	27.06
12H	4H	23.17	23.86	23.65	24.34	24.81	24.82	25.52	25.30	26.00	26.47
	6H	23.71	24.29	24.23	24.80	25.29	25.27	25.85	25.79	26.36	26.85
	8H	23.95	24.46	24.46	24.95	25.52	25.45	25.96	25.96	26.45	27.02