

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: P242296

Luminaire Tested: S122DRP-S675D835-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242296
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-S675D835-X4F0-XX-UDD-A-W
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

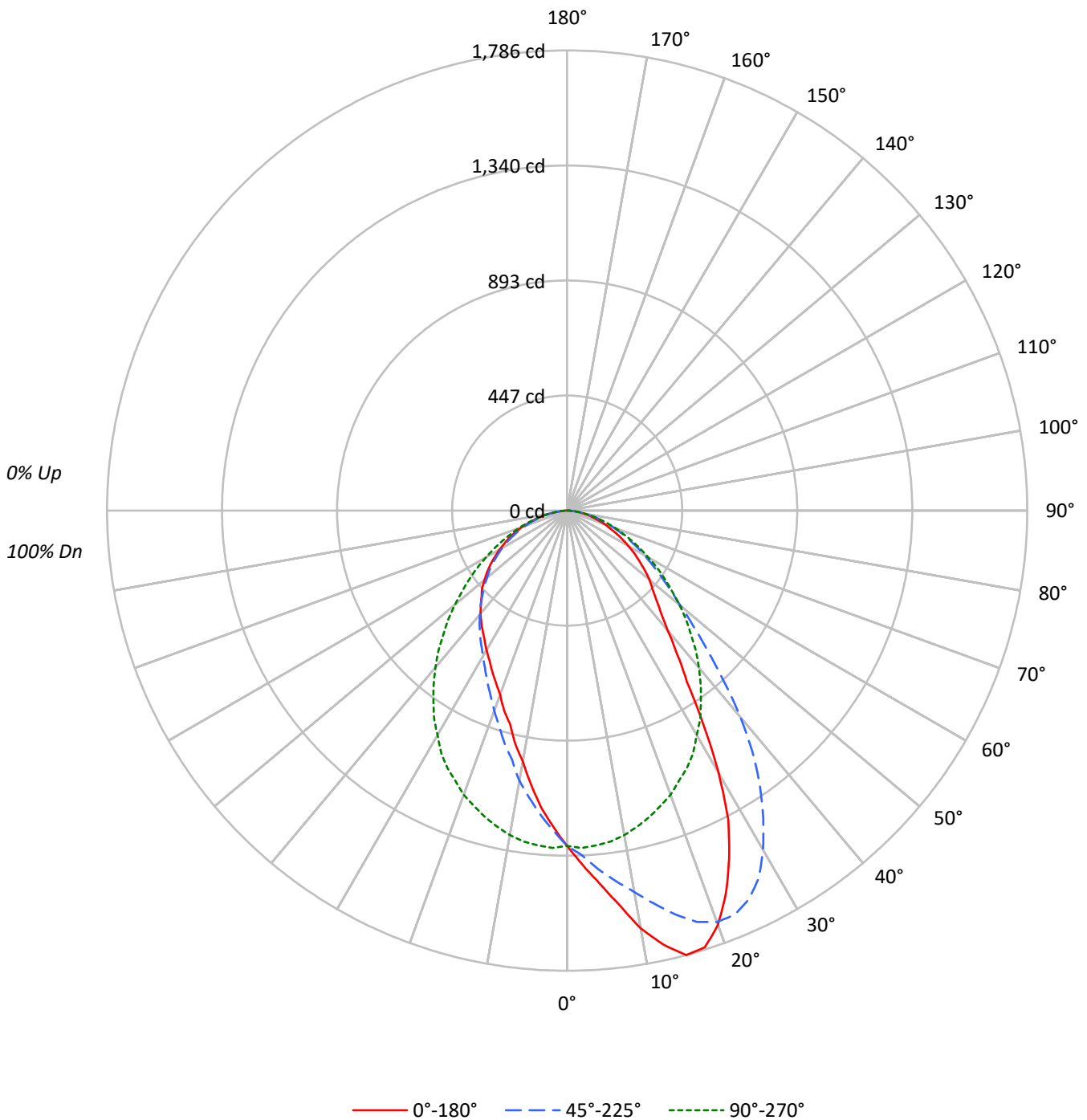
Lumens per Lamp: N/A
Luminaire Lumens: 2870.4 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.23
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

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					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	47	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°	24783	24783	24783	24783	24783
5°	27786	26744	24945	22660	22105
10°	31840	29074	24740	20610	19131
15°	35223	31999	24287	18469	16902
20°	34686	34443	23799	16765	15407
25°	31277	35018	23152	15397	14462
30°	25846	33447	22118	14332	13771
35°	18837	30347	21035	13675	13280
40°	15046	26024	19758	13106	13007
45°	13148	20812	18280	12529	12636
50°	12357	16983	16849	12046	12387
55°	11391	14761	15396	11606	12055
60°	10438	13143	13848	11086	11543
65°	9510	11876	12462	10411	11042
70°	8632	10609	11111	9607	10303
75°	7654	9383	9604	8611	9126
80°	6581	7953	7953	7075	7349
85°	5901	6447	5901	4917	4371

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 65°
 Vertical Angle: 45°
 Luminance: 31883 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.9	4.3
10°-20°	360.7	12.6
20°-30°	523.5	18.2
30°-40°	551.9	19.2
40°-50°	488.3	17.0
50°-60°	389.8	13.6
60°-70°	264.7	9.2
70°-80°	135.5	4.7
80°-90°	32.0	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°	1008.2	35.1
0°-40°	1560.0	54.3
0°-60°	2438.1	84.9
0°-90°	2870.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2870.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1301	1301	1301	1301	1301	
5°	1453	1399	1305	1185	1156	145
15°	1786	1623	1232	937	857	495
25°	1488	1666	1102	733	688	675
35°	810	1305	905	588	571	524
45°	488	773	679	465	469	383
55°	343	444	464	350	363	308
65°	211	264	276	231	245	210
75°	104	128	130	117	124	111
85°	27	30	27	22	20	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°	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1376.2	1376.7	1377.7	1369.7	1368.7	1368.7	1361.7	1355.7	1348.7	1339.2	1340.2
5°	1453.2	1458.7	1460.7	1454.7	1445.7	1444.7	1436.2	1422.2	1409.2	1398.7	1391.2
7.5°	1542.2	1544.2	1540.2	1533.2	1527.2	1515.7	1501.7	1488.2	1468.2	1450.2	1437.2
10°	1646.2	1649.2	1640.7	1629.2	1619.7	1605.7	1582.7	1559.2	1530.7	1503.2	1481.2
12.5°	1725.2	1733.7	1722.2	1723.2	1705.2	1684.7	1656.2	1647.2	1604.2	1563.2	1539.2
15°	1786.2	1785.7	1786.7	1777.2	1765.2	1762.2	1733.2	1701.7	1645.2	1622.7	1583.7
17.5°	1777.2	1784.2	1788.2	1785.2	1783.2	1778.7	1766.2	1742.7	1711.7	1673.7	1627.2
20°	1711.2	1721.2	1722.7	1734.2	1740.7	1749.2	1752.7	1747.2	1729.7	1699.2	1660.2
22.5°	1609.2	1610.2	1615.7	1635.2	1651.2	1675.7	1688.7	1713.2	1709.2	1698.2	1667.2
25°	1488.2	1483.2	1500.7	1509.7	1542.2	1576.2	1600.7	1627.7	1651.7	1666.2	1656.7
27.5°	1354.2	1343.7	1370.2	1393.7	1416.7	1449.7	1486.7	1530.7	1564.2	1609.7	1620.7
30°	1175.1	1179.6	1204.6	1230.1	1270.1	1322.1	1365.2	1414.7	1468.2	1520.7	1557.2
32.5°	982.1	1002.6	1016.1	1058.6	1092.6	1152.1	1220.1	1285.1	1355.2	1416.7	1478.2
35°	810.1	830.1	852.1	880.6	930.1	987.6	1049.1	1132.6	1223.6	1305.1	1372.2
37.5°	701.1	697.6	711.1	732.1	774.6	824.1	897.1	982.1	1091.1	1181.6	1271.6
40°	605.1	603.1	612.1	631.1	661.6	695.6	757.6	830.1	929.6	1046.6	1159.1
42.5°	539.1	541.1	545.1	557.1	575.6	602.1	644.6	703.6	792.6	901.1	1024.1
45°	488.1	491.6	497.1	503.6	515.6	538.6	564.6	608.6	680.6	772.6	891.6
47.5°	448.1	449.1	455.1	461.1	468.1	482.1	505.1	533.1	588.1	666.6	773.1
50°	417.0	413.5	417.5	422.0	429.5	438.5	452.6	478.6	512.6	573.1	658.6
52.5°	379.0	380.0	383.5	384.5	391.0	400.0	412.5	428.5	458.6	502.6	569.1
55°	343.0	345.5	347.5	350.5	356.5	363.0	373.0	385.0	409.0	444.5	496.6
57.5°	309.0	310.0	311.5	318.0	321.5	327.5	337.5	348.5	364.5	392.0	433.0
60°	274.0	274.0	278.0	280.5	285.5	291.5	299.0	309.5	323.5	345.0	376.5
62.5°	242.0	241.5	242.5	247.0	250.5	256.0	263.5	272.0	285.0	303.5	328.0
65°	211.0	210.0	213.0	214.0	218.0	223.5	229.5	239.0	249.5	263.5	286.5
67.5°	180.0	181.5	183.5	185.5	187.5	194.0	198.0	205.0	214.0	226.0	242.0
70°	155.0	155.0	155.0	156.5	159.5	162.5	166.5	172.0	180.5	190.5	204.5
72.5°	127.0	129.0	131.0	129.5	133.5	135.0	140.0	142.5	150.5	156.0	168.0
75°	104.0	104.0	104.0	106.5	108.0	109.5	112.5	115.5	119.5	127.5	134.0
77.5°	82.0	81.5	82.0	82.5	84.5	86.5	87.5	90.0	94.0	98.0	104.0
80°	60.0	61.0	61.5	62.5	62.5	63.5	64.0	67.5	70.0	72.5	76.0
82.5°	43.0	43.0	43.0	43.0	43.5	44.0	45.5	46.0	46.5	48.5	51.0
85°	27.0	26.5	26.5	27.5	27.0	27.0	28.0	29.0	29.0	29.5	31.0
87.5°	13.0	13.0	13.5	13.0	13.0	13.5	13.5	13.0	13.5	14.0	14.5
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°	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1343.7	1339.7	1337.1	1328.1	1320.1	1312.1	1309.6	1310.6	1299.6	1289.1	1284.6
5°	1387.2	1377.2	1367.7	1354.2	1338.2	1320.6	1311.6	1304.6	1287.1	1268.1	1257.1
7.5°	1426.7	1413.7	1396.7	1372.7	1350.7	1324.6	1308.6	1295.1	1270.6	1245.1	1229.6
10°	1462.2	1442.7	1419.2	1388.2	1359.7	1326.1	1302.6	1279.1	1249.1	1217.1	1197.1
12.5°	1492.7	1464.7	1441.7	1399.7	1364.7	1320.6	1291.6	1256.1	1224.1	1184.6	1165.1
15°	1544.7	1496.2	1452.2	1407.2	1365.7	1307.1	1276.1	1231.6	1190.1	1143.1	1120.6
17.5°	1583.2	1530.7	1462.7	1408.2	1362.2	1299.6	1255.1	1202.1	1155.1	1103.1	1073.1
20°	1615.2	1552.7	1478.2	1410.2	1352.2	1278.1	1228.6	1174.1	1116.6	1056.1	1023.1
22.5°	1634.2	1567.7	1494.2	1402.7	1332.1	1260.6	1195.1	1134.1	1075.6	1009.1	974.1
25°	1635.2	1575.2	1497.2	1399.2	1316.1	1234.6	1159.6	1101.6	1031.1	970.1	919.6
27.5°	1618.7	1571.2	1495.7	1392.2	1297.6	1204.1	1122.6	1059.1	984.6	918.6	868.1
30°	1582.2	1557.2	1484.2	1380.2	1274.6	1172.1	1080.1	1005.6	931.6	864.6	812.6
32.5°	1525.7	1525.2	1463.2	1363.2	1250.1	1131.6	1035.6	960.1	876.1	810.6	761.6
35°	1448.2	1472.2	1431.7	1336.1	1218.1	1093.6	990.6	904.6	819.6	756.6	710.1
37.5°	1349.7	1405.2	1389.2	1300.1	1177.1	1053.1	941.1	851.1	769.6	704.6	659.1
40°	1247.1	1323.1	1334.1	1257.6	1133.1	1004.6	884.1	794.6	715.6	657.6	611.6
42.5°	1137.1	1229.1	1264.1	1206.6	1085.1	953.6	833.1	739.6	661.6	605.6	566.1
45°	1011.6	1129.1	1183.6	1148.6	1030.6	896.6	772.6	678.6	607.6	554.6	523.1
47.5°	898.1	1025.6	1095.1	1078.6	972.1	839.1	716.6	625.1	554.6	511.6	482.1
50°	776.1	908.1	996.6	1000.6	908.1	776.6	653.6	568.6	505.1	465.6	442.5
52.5°	670.1	794.6	893.1	918.6	836.6	711.6	597.1	512.6	458.6	423.0	403.0
55°	580.6	687.1	794.1	833.1	765.6	645.6	538.1	463.6	411.0	386.0	368.0
57.5°	495.6	589.1	690.6	731.6	688.6	583.1	479.1	413.5	369.0	346.5	332.5
60°	431.0	501.1	589.1	640.6	604.6	513.1	425.0	363.5	328.5	309.0	296.0
62.5°	371.0	431.0	502.1	548.1	532.6	447.6	371.0	318.5	289.5	271.5	263.0
65°	316.0	365.0	422.5	466.1	453.1	387.5	323.0	276.5	252.5	238.0	230.5
67.5°	269.0	306.5	347.5	387.5	376.5	328.0	273.5	236.0	217.5	204.5	200.0
70°	225.0	252.0	287.5	318.0	309.5	271.5	230.5	199.5	184.0	173.5	169.0
72.5°	183.0	204.0	229.0	252.5	247.5	217.5	185.0	163.5	152.5	143.0	139.5
75°	144.5	161.5	178.0	194.5	193.0	168.5	148.5	130.5	121.0	113.5	112.0
77.5°	113.0	123.5	135.5	146.0	143.5	127.5	111.0	100.0	92.5	87.5	87.0
80°	81.5	87.0	95.0	102.0	98.5	92.5	80.0	72.5	67.5	62.5	60.5
82.5°	53.5	59.0	63.0	66.0	63.5	58.0	51.5	47.0	44.5	41.5	41.0
85°	31.0	34.0	36.0	37.0	36.0	32.5	29.0	27.0	24.5	23.0	22.5
87.5°	15.0	15.0	15.0	16.0	14.5	14.5	12.5	11.0	10.5	10.0	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°	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1279.6	1276.6	1266.1	1260.6	1251.6	1243.1	1237.6	1240.1	1242.1	1241.1	1239.6
5°	1247.1	1237.6	1223.1	1210.6	1201.6	1185.1	1178.1	1174.6	1171.6	1168.1	1164.6
7.5°	1211.1	1197.6	1177.1	1161.1	1145.1	1124.1	1113.6	1107.6	1101.1	1093.6	1086.6
10°	1172.1	1151.1	1129.1	1104.1	1084.1	1065.6	1049.1	1038.1	1028.1	1018.6	1011.6
12.5°	1131.1	1106.1	1077.6	1041.1	1018.6	990.1	991.1	969.6	952.6	947.6	939.1
15°	1087.1	1053.1	1018.6	978.1	960.6	936.6	921.6	906.6	893.1	883.6	881.1
17.5°	1039.1	993.6	960.1	930.1	901.6	877.1	864.1	852.1	840.6	826.6	826.1
20°	982.6	944.6	907.1	881.6	852.1	827.1	810.1	798.1	788.6	781.1	774.6
22.5°	929.1	886.6	853.1	824.6	795.6	776.6	764.1	752.6	745.1	736.6	730.6
25°	871.1	838.6	801.1	769.6	745.6	732.6	721.6	711.6	706.6	701.1	694.1
27.5°	821.6	785.6	748.6	724.1	702.1	690.6	682.1	674.6	670.1	666.6	662.1
30°	768.6	732.1	704.6	680.6	663.1	651.6	646.6	642.6	637.1	635.1	633.1
32.5°	717.6	685.6	663.1	643.1	626.6	620.1	615.6	612.1	608.1	606.1	601.6
35°	670.1	642.6	619.6	608.1	594.6	588.1	584.6	579.6	575.6	573.6	573.1
37.5°	624.6	599.6	584.1	568.6	562.1	558.6	553.6	550.1	548.6	548.1	547.6
40°	580.6	561.1	547.6	535.6	533.1	527.1	523.1	520.1	520.1	520.6	520.1
42.5°	540.6	523.6	512.1	502.1	499.1	496.1	492.1	492.6	493.6	495.6	493.6
45°	500.1	487.6	479.1	474.1	468.6	465.1	464.6	466.1	466.6	467.1	468.6
47.5°	462.1	454.1	446.1	440.0	437.5	437.0	436.0	438.5	441.0	441.5	444.0
50°	429.0	419.5	413.0	409.5	407.5	406.5	407.5	410.5	412.5	415.0	416.5
52.5°	392.0	386.0	382.0	379.5	379.0	380.0	380.0	383.5	387.0	387.5	388.0
55°	358.5	353.5	352.5	348.0	350.0	349.5	352.0	354.0	357.0	360.0	360.5
57.5°	324.5	320.0	317.0	317.5	318.0	320.0	322.0	325.5	329.0	332.5	332.5
60°	290.5	288.5	287.0	287.0	288.0	291.0	293.5	297.0	299.0	301.0	302.5
62.5°	259.5	257.5	256.0	257.0	260.0	261.5	264.5	266.0	268.0	270.0	270.5
65°	226.5	225.5	227.0	228.0	228.5	231.0	234.5	236.0	238.0	239.0	242.5
67.5°	196.5	196.5	196.0	197.5	200.5	201.0	204.5	208.5	208.5	210.5	213.0
70°	166.0	167.0	168.0	169.0	171.5	172.5	175.0	176.5	178.5	180.0	181.5
72.5°	138.0	138.0	139.0	138.5	140.5	143.0	145.0	146.5	148.5	150.5	152.0
75°	110.5	110.5	111.5	112.0	114.5	117.0	116.5	117.5	119.5	121.5	122.5
77.5°	85.5	84.5	85.5	86.0	87.0	89.0	89.5	91.0	93.5	93.0	94.0
80°	61.5	60.0	61.5	62.0	62.0	64.5	64.5	65.5	67.0	65.5	67.0
82.5°	39.5	39.0	40.0	40.0	41.0	40.5	41.5	41.5	43.0	42.5	43.0
85°	22.0	21.5	22.0	21.5	22.0	22.5	22.5	22.0	22.0	23.0	21.5
87.5°	8.5	8.0	7.5	7.5	7.0	6.5	6.0	6.0	6.0	5.0	5.0
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: P242296

CATALOG NUMBER: S122DRP-S675D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1301.1	1301.1	1301.1	1301.1
2.5°	1234.6	1233.6	1233.6	1229.1
5°	1157.6	1156.1	1153.6	1156.1
7.5°	1084.6	1078.1	1077.1	1072.1
10°	1003.1	999.1	998.6	989.1
12.5°	941.1	930.1	932.6	928.1
15°	867.6	867.6	865.6	857.1
17.5°	815.1	814.6	810.1	813.1
20°	769.1	766.1	760.1	760.1
22.5°	725.6	726.1	719.6	722.1
25°	693.6	689.6	686.6	688.1
27.5°	660.6	659.1	658.6	654.1
30°	632.6	627.6	628.6	626.1
32.5°	600.6	599.6	598.1	596.1
35°	572.1	572.6	570.1	571.1
37.5°	546.6	548.6	547.1	547.1
40°	521.6	521.6	521.6	523.1
42.5°	497.6	496.6	495.6	495.1
45°	469.6	471.1	471.6	469.1
47.5°	445.0	445.5	445.0	448.1
50°	419.0	418.0	419.0	418.0
52.5°	391.5	392.0	391.0	391.0
55°	362.5	363.5	363.0	363.0
57.5°	333.0	333.5	334.5	332.0
60°	302.0	304.5	304.0	303.0
62.5°	273.5	274.0	274.0	274.0
65°	244.0	245.0	243.5	245.0
67.5°	212.0	212.5	213.5	214.0
70°	182.5	182.0	183.5	185.0
72.5°	151.5	153.0	152.0	153.0
75°	121.5	123.0	122.5	124.0
77.5°	93.0	93.5	93.5	94.0
80°	67.0	66.0	65.0	67.0
82.5°	41.5	42.5	41.5	41.0
85°	21.5	21.0	20.0	20.0
87.5°	5.0	4.5	4.5	4.0
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P242296

CATALOG NUMBER: S122DRP-S675D835-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	19.45	20.97	19.81	21.28	21.59	22.70	24.22	23.07	24.53	24.85
	3H	20.86	22.22	21.23	22.54	22.91	23.71	25.07	24.09	25.40	25.76
	4H	21.36	22.64	21.76	22.98	23.36	24.03	25.31	24.43	25.66	26.03
	6H	21.71	22.89	22.13	23.26	23.65	24.23	25.41	24.64	25.77	26.16
	8H	21.83	22.95	22.25	23.34	23.74	24.27	25.39	24.70	25.78	26.18
	12H	21.90	22.97	22.33	23.35	23.78	24.29	25.36	24.72	25.74	26.17
4H	2H	20.31	21.58	20.71	21.93	22.31	22.91	24.19	23.31	24.54	24.92
	3H	21.86	22.92	22.27	23.32	23.72	24.25	25.31	24.66	25.71	26.12
	4H	22.45	23.41	22.89	23.82	24.26	24.76	25.72	25.19	26.13	26.57
	6H	22.90	23.73	23.36	24.17	24.63	25.09	25.92	25.55	26.37	26.83
	8H	23.04	23.82	23.50	24.26	24.73	25.17	25.94	25.63	26.39	26.86
	12H	23.14	23.84	23.63	24.31	24.79	25.21	25.90	25.69	26.38	26.85
8H	4H	22.89	23.66	23.35	24.11	24.57	24.89	25.66	25.35	26.11	26.57
	6H	23.42	24.06	23.92	24.55	25.03	25.33	25.97	25.82	26.46	26.93
	8H	23.61	24.19	24.13	24.70	25.19	25.46	26.03	25.97	26.54	27.03
	12H	23.77	24.28	24.28	24.77	25.34	25.55	26.06	26.06	26.55	27.11
12H	4H	22.94	23.64	23.43	24.11	24.59	24.88	25.57	25.36	26.05	26.52
	6H	23.50	24.07	24.01	24.58	25.07	25.33	25.90	25.84	26.41	26.90
	8H	23.74	24.25	24.25	24.74	25.30	25.50	26.01	26.01	26.50	27.07