

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: P242460

Luminaire Tested: S123DRP-S1165D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242460
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DRP-S1165D927-X4F0-XX-UDD-A-W
Description: DEFINE 3 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

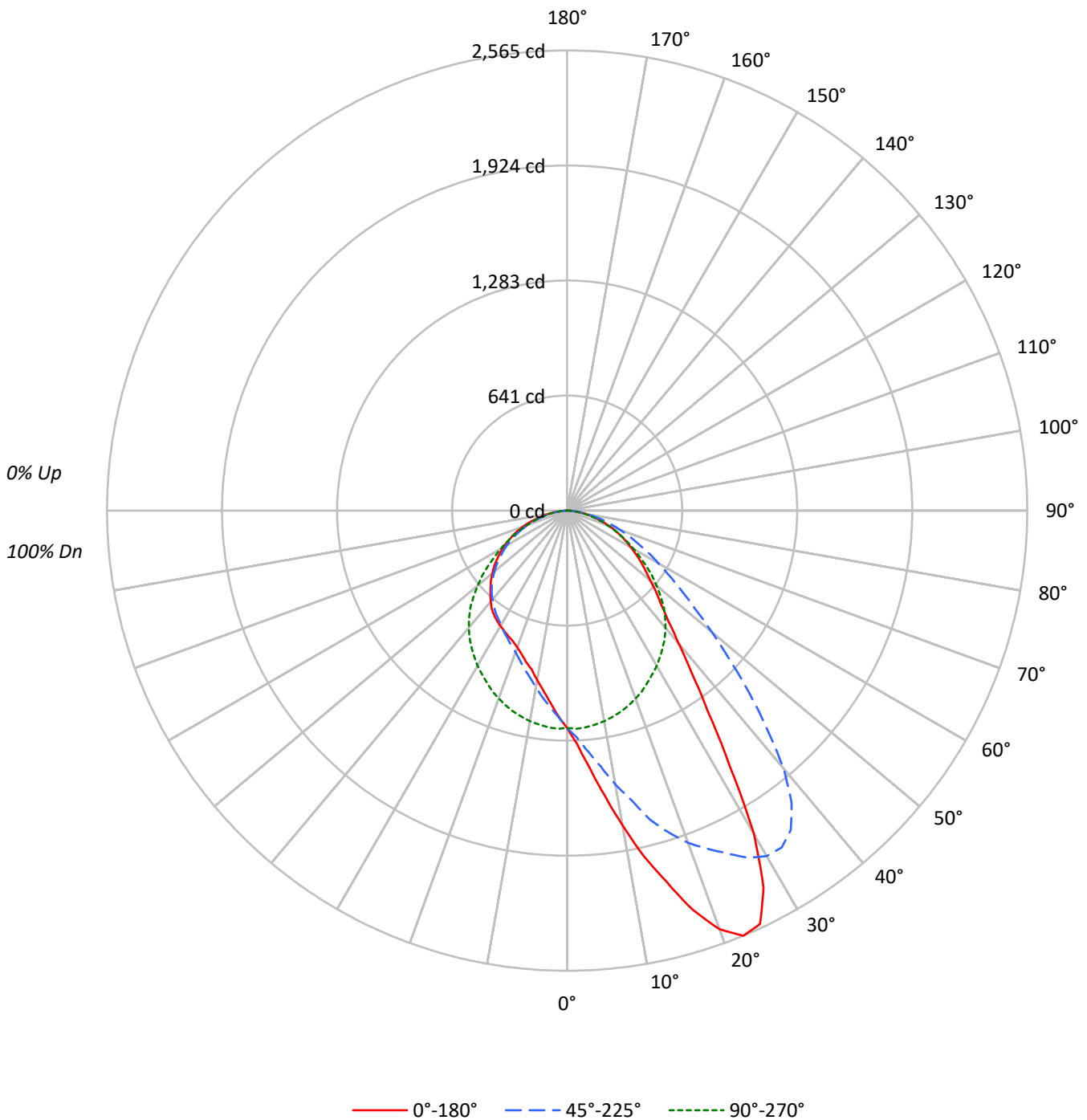
Lumens per Lamp: N/A
Luminaire Lumens: 3656.9 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.5
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

Input Watts (W): 41.1
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	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87					85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	74					72				
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64					62				
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56					53				
5	78	66	57	51	76	64	56	50	62	55	50	60	54	49	59	53	49					47				
6	72	59	51	44	70	58	50	44	56	49	44	55	48	43	53	48	43					41				
7	67	54	45	39	65	53	45	39	52	44	39	50	44	39	49	43	38					36				
8	62	49	41	35	61	49	41	35	47	40	35	46	39	35	45	39	35					33				
9	58	45	37	32	57	45	37	32	43	36	32	42	36	31	41	36	31					29				
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28					27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14686	14686	14686	14686	14686
5°	17514	16414	14749	13356	13070
10°	21921	19081	14674	12305	11806
15°	26887	22378	14555	11477	10990
20°	32030	25411	14372	10828	10465
25°	34009	28185	14147	10512	10348
30°	29150	31122	13984	10311	10402
35°	20274	32156	13750	10275	10511
40°	15271	29686	13478	10255	10478
45°	12678	24552	13071	10184	10345
50°	11358	19815	12242	9985	10251
55°	10619	16437	11350	9700	10123
60°	9961	14216	10417	9421	10019
65°	9362	12511	9496	8940	9697
70°	8779	11171	8445	8219	9236
75°	7863	9676	7395	7339	8467
80°	6883	7951	6066	5940	7294
85°	5382	6203	4409	4325	4895

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 29020 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.2	3.3
10°-20°	382.7	10.5
20°-30°	644.0	17.6
30°-40°	727.8	19.9
40°-50°	651.9	17.8
50°-60°	526.2	14.4
60°-70°	366.6	10.0
70°-80°	192.4	5.3
80°-90°	46.1	1.3
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°	1145.9	31.3
0°-40°	1873.7	51.2
0°-60°	3051.7	83.5
0°-90°	3656.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3656.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1212	1212	1212	1212	1212	
5°	1439	1349	1212	1098	1074	148
15°	2143	1783	1160	915	876	618
25°	2543	2107	1058	786	774	1124
35°	1370	2173	929	694	710	884
45°	740	1432	762	594	604	583
55°	502	778	537	459	479	451
65°	326	436	331	312	338	325
75°	168	207	158	157	181	179
85°	39	45	32	31	35	47
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°	1211.6	1211.6	1211.6	1211.6	1211.6	1211.6	1211.6	1211.6	1211.6	1211.6	1211.6
2.5°	1304.3	1303.2	1300.2	1302.6	1297.9	1291.4	1290.8	1285.0	1267.9	1266.8	1262.1
5°	1439.4	1434.7	1434.1	1433.5	1425.3	1414.1	1393.0	1391.2	1363.0	1349.0	1331.9
7.5°	1602.5	1600.8	1596.1	1590.8	1563.2	1549.7	1529.8	1503.9	1471.1	1439.4	1419.4
10°	1781.0	1800.4	1776.3	1759.9	1744.6	1715.8	1682.4	1640.7	1599.0	1550.3	1513.3
12.5°	1972.4	1979.4	1979.4	1964.1	1938.3	1890.8	1825.0	1778.1	1740.5	1651.3	1619.6
15°	2142.6	2178.4	2155.5	2102.7	2103.9	2062.2	1984.7	1899.6	1854.4	1783.3	1686.5
17.5°	2335.1	2341.6	2334.6	2285.2	2261.2	2200.7	2130.9	2051.6	1966.5	1880.2	1779.8
20°	2483.1	2479.5	2459.0	2436.1	2385.6	2341.0	2262.9	2172.0	2054.5	1970.0	1857.9
22.5°	2565.3	2558.8	2551.7	2533.6	2493.6	2444.9	2376.8	2275.3	2164.9	2040.5	1906.6
25°	2542.9	2550.6	2551.7	2546.5	2531.8	2503.0	2447.8	2368.6	2257.1	2107.4	1972.4
27.5°	2370.4	2389.7	2414.4	2430.8	2457.2	2474.9	2457.2	2407.3	2315.8	2181.9	2015.8
30°	2082.7	2059.2	2117.4	2190.7	2240.6	2328.7	2378.0	2380.9	2334.6	2223.6	2062.8
32.5°	1683.6	1721.7	1739.3	1833.8	1957.7	2059.2	2169.6	2267.6	2290.5	2226.0	2090.4
35°	1370.1	1402.4	1449.3	1496.3	1613.7	1714.7	1887.2	2037.5	2157.3	2173.1	2086.8
37.5°	1138.8	1157.6	1186.4	1236.3	1316.7	1441.7	1578.5	1774.0	1938.9	2055.1	2043.4
40°	965.1	969.7	1003.2	1039.0	1101.2	1199.9	1320.2	1488.1	1695.9	1876.1	1951.2
42.5°	834.7	846.5	855.9	889.9	936.3	1004.4	1114.2	1245.6	1431.7	1646.0	1810.9
45°	739.6	751.4	760.2	783.1	818.3	868.2	946.3	1073.1	1218.1	1432.3	1630.1
47.5°	673.9	672.7	680.3	698.5	723.8	763.7	821.2	905.8	1044.9	1223.9	1431.1
50°	602.3	611.7	614.0	627.5	646.3	673.9	719.7	788.9	898.1	1050.8	1237.4
52.5°	551.8	553.0	560.6	569.4	585.3	605.2	643.4	693.9	773.7	898.1	1066.0
55°	502.5	502.5	508.9	516.6	526.0	545.3	571.8	611.7	676.8	777.8	919.9
57.5°	456.7	459.0	464.9	466.7	474.9	488.4	511.3	543.0	592.9	674.5	791.9
60°	410.9	416.2	415.6	420.3	427.3	437.3	456.1	480.8	524.2	586.4	681.5
62.5°	371.0	369.2	369.2	375.1	382.1	391.5	402.1	422.6	457.9	511.3	588.8
65°	326.4	325.2	329.3	332.8	335.2	342.2	351.6	370.4	395.1	436.2	499.0
67.5°	287.6	284.1	287.0	288.2	292.3	298.2	307.6	319.3	339.3	373.9	424.4
70°	247.7	244.8	244.2	245.4	248.9	253.0	259.5	270.6	288.8	315.2	349.9
72.5°	206.6	204.9	204.9	207.8	209.0	211.3	215.4	225.4	238.9	257.1	288.8
75°	167.9	167.9	167.9	168.5	170.2	172.6	176.1	181.4	192.5	206.6	228.3
77.5°	132.7	133.3	132.1	131.5	134.4	135.6	136.2	142.1	148.5	159.1	176.1
80°	98.6	95.7	96.9	98.6	99.8	100.4	102.1	103.3	108.6	113.9	125.0
82.5°	66.9	64.6	64.6	67.5	67.5	68.1	69.9	71.6	72.8	77.5	82.2
85°	38.7	38.7	39.3	39.3	39.9	39.3	41.1	41.7	41.7	44.6	48.1
87.5°	17.6	16.4	17.0	17.6	17.0	17.6	18.2	18.8	19.4	20.0	20.5
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°	1211.6	1211.6	1211.6	1211.6	1211.6	1211.6	1211.6	1211.6	1211.6	1211.6	1211.6
2.5°	1258.6	1253.9	1249.2	1240.9	1233.9	1223.9	1221.0	1217.5	1206.9	1197.5	1190.5
5°	1325.5	1311.4	1290.8	1272.1	1256.8	1236.3	1224.5	1212.2	1194.6	1178.7	1165.8
7.5°	1389.5	1364.8	1336.0	1304.9	1275.0	1246.2	1223.3	1202.8	1179.9	1157.6	1140.6
10°	1468.7	1428.8	1384.2	1336.0	1295.0	1255.0	1221.6	1192.2	1160.5	1132.9	1110.0
12.5°	1559.1	1495.1	1429.4	1368.3	1317.8	1258.6	1216.3	1177.0	1140.0	1105.3	1078.9
15°	1626.6	1551.5	1478.7	1398.3	1324.3	1255.0	1206.9	1159.9	1118.3	1084.2	1051.3
17.5°	1693.5	1611.4	1518.6	1421.7	1334.9	1255.0	1189.3	1138.8	1087.7	1046.6	1014.9
20°	1748.7	1651.9	1543.3	1441.7	1343.1	1251.5	1177.5	1114.2	1057.8	1013.8	976.8
22.5°	1796.3	1678.9	1565.6	1455.2	1342.5	1242.1	1155.8	1090.1	1027.9	985.0	945.1
25°	1826.2	1690.6	1577.9	1450.5	1327.8	1225.7	1131.8	1057.8	996.7	946.3	905.8
27.5°	1854.4	1688.8	1561.5	1424.1	1310.2	1208.7	1107.7	1028.4	964.5	909.9	868.2
30°	1882.6	1691.8	1532.7	1397.1	1282.0	1176.4	1078.9	999.1	931.0	875.2	836.5
32.5°	1900.2	1690.0	1506.3	1359.5	1237.4	1147.0	1047.8	964.5	894.0	839.4	802.4
35°	1904.9	1680.0	1475.2	1304.9	1188.7	1097.7	1014.9	929.2	855.9	804.8	762.5
37.5°	1894.9	1661.8	1441.1	1255.6	1130.0	1039.6	967.4	894.0	823.6	766.6	729.7
40°	1862.6	1644.2	1400.0	1202.8	1069.0	982.7	923.4	851.8	782.5	729.1	695.0
42.5°	1801.0	1608.4	1354.8	1144.1	1005.6	919.3	865.8	808.9	744.3	695.0	661.0
45°	1692.9	1553.2	1309.6	1085.4	943.3	854.1	806.0	762.5	703.2	654.5	625.2
47.5°	1555.0	1478.7	1244.5	1023.8	878.2	791.9	741.4	705.6	659.2	619.9	591.1
50°	1410.0	1382.4	1178.1	960.4	813.0	729.1	680.9	649.2	618.1	578.8	553.0
52.5°	1242.7	1270.9	1100.7	894.6	746.7	664.5	619.9	596.4	568.8	538.3	516.6
55°	1087.7	1149.4	1009.1	819.5	680.9	602.3	559.4	537.1	520.7	496.6	477.2
57.5°	937.5	1016.1	914.0	743.7	616.4	547.7	505.4	480.2	469.6	456.1	440.3
60°	806.6	884.0	810.7	667.4	551.2	486.6	450.2	429.7	419.1	410.3	397.4
62.5°	689.7	768.4	709.7	589.9	487.2	428.5	398.0	378.0	370.4	366.9	356.3
65°	584.7	652.2	611.1	508.9	426.8	373.9	345.2	331.1	323.4	321.7	314.6
67.5°	493.7	545.9	514.2	437.3	370.4	322.3	297.0	284.7	278.2	277.7	271.8
70°	404.5	452.6	429.7	361.6	305.8	270.0	248.9	238.3	234.8	234.2	231.3
72.5°	335.2	365.1	348.1	294.1	254.2	222.5	208.4	197.2	193.1	194.3	192.5
75°	258.3	283.5	273.0	233.6	199.0	177.9	165.0	157.9	154.4	156.1	153.8
77.5°	197.2	214.8	204.3	174.3	152.0	136.2	126.2	121.5	118.0	118.0	116.8
80°	140.3	149.7	144.4	128.0	110.4	97.4	89.8	86.9	85.1	84.5	83.9
82.5°	89.8	97.4	91.0	81.0	70.4	64.0	60.5	56.4	55.2	55.8	55.2
85°	50.5	53.4	51.1	44.0	39.3	35.8	33.5	31.7	30.5	31.1	29.9
87.5°	21.7	22.3	20.5	18.2	17.0	15.3	15.3	14.1	12.9	12.9	12.3
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°	1211.6	1211.6	1211.6	1211.6	1211.6	1211.6	1211.6	1211.6	1211.6	1211.6	1211.6
2.5°	1186.4	1182.2	1176.4	1167.6	1160.5	1149.4	1149.4	1151.1	1151.1	1150.5	1149.4
5°	1155.2	1146.4	1135.9	1123.5	1110.6	1097.7	1095.4	1090.7	1087.1	1084.8	1081.9
7.5°	1123.5	1108.9	1094.2	1077.2	1062.5	1050.2	1041.4	1033.7	1029.0	1023.8	1019.6
10°	1091.3	1071.9	1053.7	1035.5	1015.5	999.7	989.7	982.7	977.4	972.7	970.3
12.5°	1053.1	1030.2	1009.7	992.6	970.3	953.9	944.5	942.2	935.7	924.5	918.7
15°	1016.1	995.6	971.5	945.1	934.5	914.6	903.4	898.1	894.6	887.0	884.6
17.5°	985.6	958.0	930.4	911.0	891.7	875.8	869.4	862.3	857.6	850.6	848.8
20°	947.4	923.4	898.7	877.6	857.0	839.4	834.1	829.5	824.8	821.8	819.5
22.5°	908.7	884.6	865.3	845.9	823.6	813.6	807.7	802.4	799.5	797.8	795.4
25°	872.9	851.8	828.9	811.3	793.6	786.0	782.5	779.6	777.2	774.3	773.7
27.5°	841.2	817.7	798.3	781.3	768.4	761.9	757.8	756.1	756.1	757.2	757.8
30°	804.8	783.7	768.4	754.3	742.6	736.7	736.1	736.1	738.5	739.1	740.2
32.5°	771.3	754.9	739.6	726.1	717.9	714.4	717.3	717.3	719.1	720.9	723.2
35°	739.1	723.8	712.0	700.3	692.7	694.4	695.6	696.8	699.7	703.2	705.6
37.5°	708.5	694.4	682.1	672.7	668.0	671.5	674.5	676.8	680.3	683.3	685.6
40°	675.1	665.1	653.3	645.1	646.3	648.1	650.4	653.3	656.3	658.0	660.4
42.5°	644.0	633.4	625.2	618.7	620.5	622.8	624.0	625.2	628.7	632.2	633.4
45°	612.3	604.0	595.8	591.7	592.9	594.1	595.2	597.0	599.9	602.3	602.9
47.5°	576.4	570.6	565.3	560.6	562.9	562.4	564.1	567.6	568.8	570.0	573.5
50°	542.4	537.1	530.7	529.5	529.5	529.5	530.1	534.8	534.8	537.1	539.5
52.5°	504.8	501.9	498.4	496.0	494.9	494.9	497.8	499.5	500.7	504.2	506.6
55°	467.9	464.3	460.8	459.0	457.9	459.0	463.7	464.9	467.9	469.6	471.4
57.5°	429.1	426.8	423.8	422.6	422.6	423.2	426.8	429.7	430.3	436.2	438.5
60°	391.0	386.8	384.5	384.5	383.3	388.6	387.4	393.3	394.5	398.0	402.1
62.5°	351.6	345.8	345.2	345.2	347.5	348.1	350.4	352.2	355.7	360.4	363.4
65°	308.8	305.8	309.9	309.4	308.2	311.7	311.7	314.6	318.2	322.3	328.7
67.5°	268.9	266.5	267.7	267.1	268.9	271.2	273.0	275.3	279.4	284.1	288.2
70°	228.3	230.1	227.2	229.5	231.3	231.9	233.0	236.6	241.3	244.2	248.9
72.5°	189.0	188.4	189.6	190.2	192.0	193.1	194.3	198.4	203.7	206.0	209.6
75°	151.4	150.9	152.6	152.6	155.6	156.7	157.9	159.7	164.4	167.9	170.8
77.5°	117.4	118.0	117.4	119.8	118.6	119.2	122.7	124.4	125.0	132.7	133.8
80°	83.4	84.5	85.1	85.7	86.3	85.1	89.2	91.0	91.0	95.1	98.0
82.5°	54.0	54.6	56.4	56.9	56.9	58.7	58.1	59.3	61.0	62.2	66.3
85°	29.9	31.7	32.3	31.7	32.3	31.1	32.9	33.5	34.0	34.0	34.0
87.5°	11.7	12.3	11.7	12.3	11.7	12.3	12.3	11.2	11.2	12.9	10.6
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: P242460

CATALOG NUMBER: S123DRP-S1165D927-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1211.6	1211.6	1211.6	1211.6
2.5°	1145.3	1144.7	1148.8	1145.9
5°	1078.3	1080.1	1074.2	1074.2
7.5°	1017.9	1015.5	1016.1	1012.0
10°	963.3	959.8	958.6	959.2
12.5°	918.1	918.1	908.7	908.7
15°	884.6	873.5	872.3	875.8
17.5°	847.6	841.2	841.8	840.6
20°	819.5	815.9	815.4	811.3
22.5°	793.6	793.1	793.6	788.9
25°	773.1	776.0	773.7	773.7
27.5°	759.0	759.0	757.2	757.2
30°	742.6	742.0	743.2	743.2
32.5°	726.1	727.3	727.3	727.9
35°	709.1	709.7	711.5	710.3
37.5°	686.8	689.7	689.2	690.3
40°	661.0	662.7	662.2	662.2
42.5°	634.6	635.7	634.0	632.8
45°	605.2	604.0	605.8	603.5
47.5°	572.9	573.5	574.1	576.4
50°	540.6	544.2	544.2	543.6
52.5°	508.9	510.1	513.1	513.1
55°	476.1	477.2	478.4	479.0
57.5°	442.6	442.0	444.4	445.0
60°	406.8	406.8	411.5	413.3
62.5°	368.6	371.0	375.7	372.2
65°	331.7	336.4	335.8	338.1
67.5°	292.9	295.9	300.6	300.6
70°	253.6	256.5	258.9	260.6
72.5°	215.4	216.6	223.1	219.5
75°	174.9	179.0	182.6	180.8
77.5°	136.2	141.5	142.6	140.9
80°	102.1	101.6	105.1	104.5
82.5°	68.1	67.5	68.7	69.3
85°	36.4	38.2	35.8	35.2
87.5°	10.6	10.6	10.0	9.4
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P242460
 CATALOG NUMBER: S123DRP-S1165D927-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	19.72	21.27	20.08	21.59	21.90	20.27	21.83	20.64	22.14	22.46
	3H	21.27	22.67	21.64	22.99	23.35	21.61	23.00	21.98	23.33	23.69
	4H	21.83	23.15	22.23	23.49	23.87	22.07	23.38	22.47	23.73	24.11
	6H	22.23	23.45	22.64	23.81	24.20	22.36	23.57	22.77	23.94	24.33
	8H	22.34	23.50	22.77	23.89	24.29	22.43	23.59	22.86	23.98	24.38
	12H	22.41	23.52	22.84	23.90	24.33	22.47	23.58	22.90	23.96	24.39
4H	2H	20.87	22.19	21.27	22.53	22.91	21.04	22.35	21.43	22.70	23.08
	3H	22.47	23.56	22.88	23.96	24.36	22.84	23.93	23.25	24.33	24.73
	4H	23.09	24.07	23.52	24.49	24.93	23.41	24.39	23.84	24.81	25.25
	6H	23.56	24.42	24.02	24.86	25.32	23.77	24.63	24.23	25.07	25.53
	8H	23.70	24.50	24.16	24.94	25.41	23.86	24.66	24.32	25.11	25.57
	12H	23.79	24.51	24.27	24.99	25.46	23.91	24.63	24.40	25.11	25.58
8H	4H	23.57	24.37	24.03	24.82	25.28	23.71	24.51	24.17	24.96	25.42
	6H	24.12	24.78	24.62	25.27	25.75	24.22	24.89	24.72	25.38	25.85
	8H	24.31	24.90	24.82	25.41	25.90	24.37	24.96	24.88	25.47	25.96
	12H	24.45	24.98	24.96	25.47	26.03	24.46	24.99	24.97	25.48	26.05
12H	4H	23.62	24.34	24.11	24.82	25.29	23.72	24.44	24.21	24.92	25.39
	6H	24.20	24.79	24.71	25.30	25.79	24.26	24.85	24.77	25.36	25.85
	8H	24.43	24.96	24.94	25.45	26.02	24.46	24.99	24.97	25.48	26.04