

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: P242733

Luminaire Tested: S124RDRP-S795D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-31)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S795D927-X4F0-XX-UDD-A-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

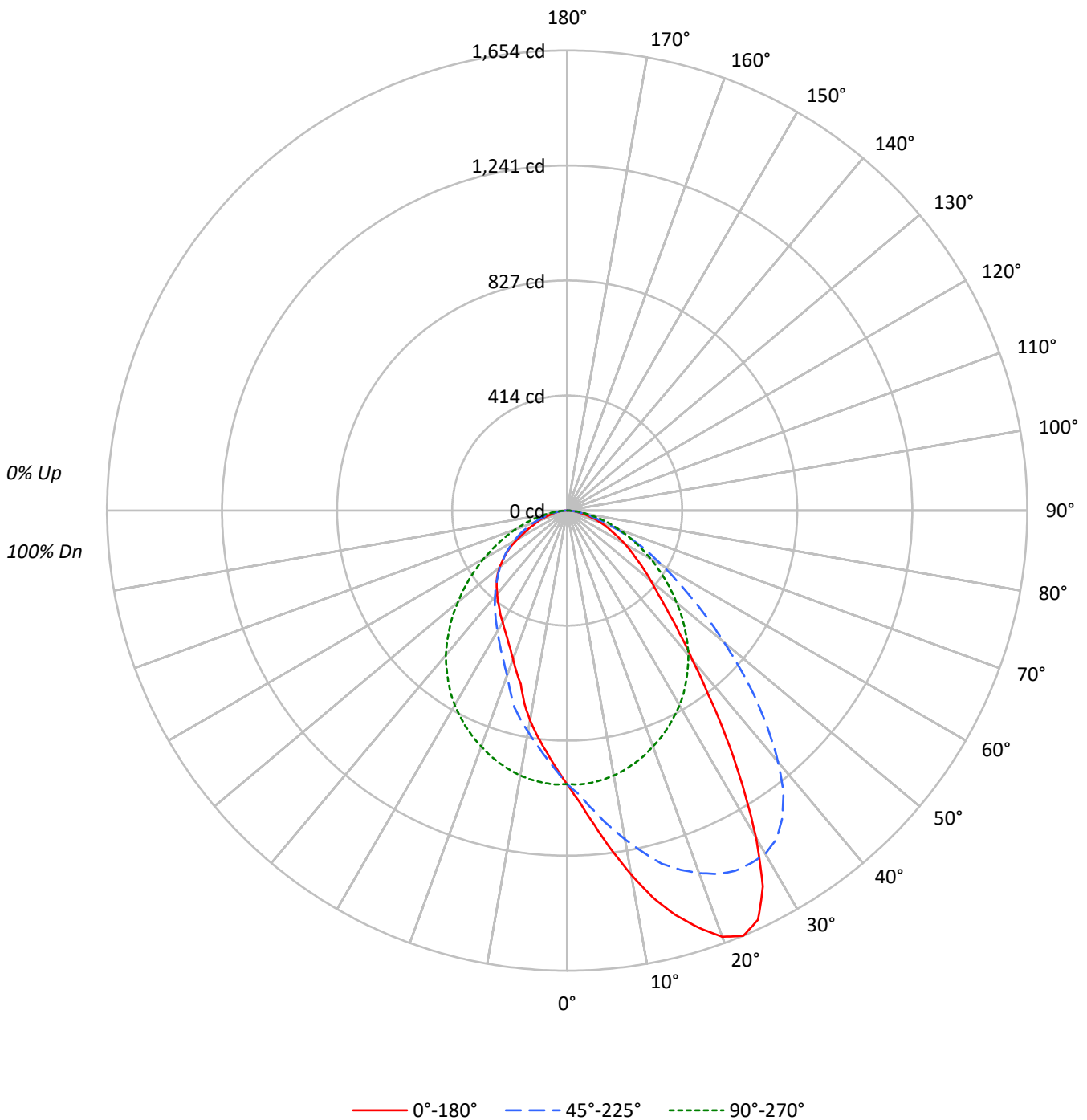
Lumens per Lamp: N/A
Luminaire Lumens: 2485.2 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.22 / 1.39
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

Input Watts (W): 26.3
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	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63					63			
4	85	74	66	60	83	73	65	59	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	56	51	60	55	50	48					48			
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38					38			
8	64	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34					34			
9	59	47	39	33	58	46	38	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8739	8739	8739	8739	8739
5°	10136	9648	8765	7931	7747
10°	11991	10833	8727	7289	6914
15°	13852	12094	8646	6736	5941
20°	15422	13114	8535	5958	5373
25°	15920	14016	8426	5489	4988
30°	13936	14619	8293	5143	4756
35°	10848	14627	8097	4883	4616
40°	8135	13683	7873	4674	4541
45°	6424	12074	7514	4497	4502
50°	5422	10161	7098	4344	4371
55°	4727	8421	6642	4180	4138
60°	4252	7049	6169	3943	3662
65°	3748	5872	5656	3674	3149
70°	3376	4694	5128	3314	2841
75°	2830	3647	4544	2912	2421
80°	2391	2759	3875	2411	2273
85°	2019	2183	3029	2142	2019

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 12896 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	3.8
10°-20°	287.5	11.6
20°-30°	450.3	18.1
30°-40°	500.1	20.1
40°-50°	443.1	17.8
50°-60°	345.3	13.9
60°-70°	225.9	9.1
70°-80°	110.8	4.5
80°-90°	27.0	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°	833.0	33.5
0°-40°	1333.0	53.6
0°-60°	2121.5	85.4
0°-90°	2485.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2485.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	983	983	983	983	983	
5°	1136	1081	982	889	868	114
15°	1505	1314	940	732	646	428
25°	1623	1429	859	560	509	725
35°	1000	1348	746	450	425	626
45°	511	960	598	358	358	403
55°	305	543	429	270	267	277
65°	178	279	269	175	150	179
75°	82	106	132	85	70	90
85°	20	21	30	21	20	23
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°	983.1	983.1	983.1	983.1	983.1	983.1	983.1	983.1	983.1	983.1	983.1
2.5°	1050.4	1054.0	1050.4	1050.0	1046.1	1044.9	1043.3	1038.2	1028.7	1023.1	1024.3
5°	1136.0	1145.9	1140.4	1139.6	1130.8	1122.1	1116.6	1103.9	1090.4	1081.3	1073.8
7.5°	1231.1	1237.0	1233.0	1228.7	1213.6	1208.9	1195.8	1180.8	1158.2	1141.1	1125.7
10°	1328.5	1333.2	1331.7	1321.4	1311.1	1290.1	1278.2	1254.8	1224.3	1200.2	1177.6
12.5°	1424.3	1429.5	1412.5	1415.6	1393.8	1378.4	1357.8	1326.9	1290.5	1257.6	1227.9
15°	1505.2	1498.8	1498.8	1490.9	1469.1	1446.1	1426.7	1395.8	1351.5	1314.2	1275.0
17.5°	1571.7	1574.5	1571.3	1551.1	1535.3	1511.9	1477.0	1441.8	1403.4	1353.4	1314.6
20°	1630.3	1630.3	1626.8	1614.1	1591.9	1566.5	1528.1	1488.9	1436.6	1386.3	1341.2
22.5°	1654.1	1655.7	1651.3	1641.4	1622.0	1597.4	1566.1	1526.1	1471.9	1413.7	1355.0
25°	1623.2	1630.7	1631.5	1628.7	1622.8	1607.7	1579.6	1538.8	1490.5	1429.1	1368.9
27.5°	1523.4	1533.3	1537.2	1545.9	1562.2	1568.1	1564.6	1537.2	1490.5	1429.9	1370.1
30°	1357.8	1365.7	1391.5	1425.1	1451.3	1475.0	1495.6	1501.2	1477.4	1424.3	1360.6
32.5°	1174.0	1185.5	1211.3	1248.1	1296.0	1340.4	1393.1	1421.2	1426.3	1399.8	1342.0
35°	999.7	1007.7	1031.4	1069.4	1121.7	1181.5	1254.8	1311.9	1350.7	1347.9	1311.9
37.5°	832.6	843.7	867.8	899.1	950.6	1027.1	1096.4	1172.8	1242.5	1276.6	1258.4
40°	701.1	701.5	724.8	757.3	804.9	869.4	946.7	1033.8	1113.8	1179.2	1191.8
42.5°	597.3	597.3	610.8	646.4	677.3	737.1	810.0	896.4	993.4	1071.4	1110.2
45°	511.0	514.5	527.2	548.2	575.1	626.6	685.6	766.0	871.0	960.5	1016.4
47.5°	442.8	449.2	456.7	475.7	497.9	533.9	584.2	659.5	746.6	846.1	923.3
50°	392.1	392.9	403.2	412.7	431.3	458.7	501.5	561.7	640.1	734.8	823.1
52.5°	348.6	348.2	353.3	366.0	380.2	400.1	432.5	486.0	553.3	635.7	727.6
55°	305.0	307.0	311.7	321.2	332.7	347.8	375.1	416.3	471.0	543.4	626.2
57.5°	271.7	272.9	277.3	280.8	291.9	303.0	325.2	354.9	402.8	463.4	544.6
60°	239.2	239.6	240.8	246.8	255.1	265.4	279.2	303.4	342.2	396.5	457.5
62.5°	207.6	208.3	210.3	214.3	220.2	226.6	241.2	259.4	289.9	334.3	387.8
65°	178.2	178.6	181.4	183.0	188.1	194.5	205.2	218.2	240.4	279.2	320.8
67.5°	153.7	153.7	153.7	156.1	160.0	164.4	171.5	182.6	200.4	225.4	264.2
70°	129.9	129.9	130.7	131.9	133.9	137.4	141.0	148.9	161.2	180.6	208.7
72.5°	107.7	108.1	108.9	108.9	109.7	112.5	114.9	119.2	127.5	141.0	162.4
75°	82.4	83.6	85.6	87.1	89.1	88.7	91.5	94.7	97.4	106.2	119.2
77.5°	65.0	64.2	64.2	65.8	66.1	66.5	68.5	71.3	73.7	78.4	83.2
80°	46.7	46.7	47.9	48.3	47.9	48.3	50.3	51.5	52.3	53.9	58.2
82.5°	32.5	33.3	32.5	32.9	33.3	33.7	35.3	35.3	36.0	36.4	37.6
85°	19.8	20.2	20.6	19.8	19.8	19.8	20.6	21.0	21.8	21.4	22.2
87.5°	8.7	8.3	8.7	8.7	9.1	8.7	9.1	9.9	9.1	9.5	9.5
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°	983.1	983.1	983.1	983.1	983.1	983.1	983.1	983.1	983.1	983.1	983.1
2.5°	1020.3	1014.8	1012.0	1005.7	998.2	994.2	990.6	985.5	978.7	971.6	966.5
5°	1064.3	1054.8	1042.9	1028.7	1016.0	1003.7	993.0	982.3	970.0	957.4	944.7
7.5°	1107.9	1090.8	1072.6	1050.8	1029.8	1010.4	993.0	976.0	956.6	939.1	922.9
10°	1153.8	1128.5	1100.3	1070.6	1040.9	1015.2	989.8	966.9	941.5	918.9	899.9
12.5°	1191.1	1160.2	1124.9	1086.1	1048.9	1016.4	986.3	954.6	924.9	899.9	873.0
15°	1233.0	1192.2	1146.7	1102.3	1056.0	1013.6	974.4	939.5	906.7	872.2	848.0
17.5°	1262.0	1214.8	1160.9	1109.5	1056.4	1007.3	962.9	922.5	884.9	850.4	821.9
20°	1287.3	1233.8	1172.4	1111.8	1050.4	997.0	948.2	902.3	863.1	825.1	795.4
22.5°	1301.6	1241.0	1172.4	1108.3	1044.1	985.1	930.4	882.1	838.5	800.5	766.8
25°	1302.4	1239.0	1170.5	1097.6	1027.9	966.5	911.0	859.1	811.6	773.6	738.7
27.5°	1299.2	1225.9	1157.0	1082.9	1011.2	945.9	888.4	833.4	786.2	745.8	710.2
30°	1289.7	1209.7	1134.4	1056.8	983.9	921.7	860.3	808.0	758.5	716.1	680.1
32.5°	1269.1	1189.9	1107.5	1027.5	953.4	888.8	831.4	778.7	730.4	686.8	648.0
35°	1240.6	1160.2	1072.2	990.6	918.1	851.6	796.9	746.2	699.9	653.6	613.2
37.5°	1207.7	1123.7	1037.0	947.5	875.4	812.0	760.9	712.2	667.0	624.6	579.9
40°	1157.0	1082.1	991.8	903.1	828.6	768.0	721.7	678.5	633.0	591.0	546.2
42.5°	1095.6	1034.6	943.1	854.0	780.7	722.9	680.5	638.5	598.1	557.7	510.6
45°	1025.9	977.6	892.0	806.4	732.4	674.5	634.9	597.7	561.3	522.4	478.5
47.5°	948.2	912.6	838.1	748.6	679.3	626.2	588.2	557.3	525.2	486.0	446.4
50°	866.7	845.7	774.4	694.4	629.0	581.1	541.9	513.3	487.6	450.4	415.9
52.5°	779.5	770.8	713.4	637.7	575.1	528.4	496.3	471.4	445.2	415.9	384.2
55°	690.8	696.7	645.6	579.5	520.1	480.5	450.0	428.6	406.4	380.2	355.3
57.5°	598.5	621.1	583.0	523.2	465.8	428.6	405.2	386.2	367.6	345.4	322.8
60°	517.3	535.5	516.1	465.0	416.3	382.2	360.8	347.0	328.4	308.6	292.3
62.5°	438.1	457.9	448.4	409.6	365.2	337.1	318.9	306.2	293.5	276.9	259.8
65°	374.3	387.0	381.4	352.9	320.8	295.9	278.5	268.9	256.3	243.6	228.5
67.5°	299.4	324.4	320.4	304.6	273.7	253.9	241.6	232.9	221.0	211.5	200.8
70°	235.7	258.3	257.9	245.6	230.5	212.3	204.4	197.3	187.0	177.8	169.5
72.5°	182.2	202.4	206.4	197.7	188.5	175.9	168.3	164.0	154.1	148.5	142.2
75°	135.1	150.1	154.1	154.1	149.3	142.2	135.5	132.3	125.2	119.6	115.7
77.5°	95.1	105.4	111.3	112.5	112.9	110.1	103.8	101.4	95.9	93.9	89.5
80°	62.6	68.9	76.0	78.4	80.4	79.6	77.2	75.7	70.5	68.5	66.9
82.5°	38.4	41.2	46.7	52.7	51.5	54.3	52.3	51.1	47.5	47.1	45.6
85°	22.6	23.0	23.8	27.3	29.3	30.1	30.5	29.7	28.5	28.5	25.7
87.5°	9.5	9.1	9.9	9.9	10.3	11.9	13.1	13.5	12.3	11.1	9.9
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	983.1	983.1	983.1	983.1	983.1	983.1	983.1	983.1	983.1	983.1	983.1
2.5°	960.9	957.0	951.8	945.9	938.7	932.4	929.6	932.0	933.2	930.0	929.6
5°	936.0	926.1	918.1	906.3	896.8	888.8	883.3	880.9	881.7	875.4	873.8
7.5°	908.2	897.5	884.5	871.0	858.3	847.2	841.3	838.5	831.8	829.0	824.7
10°	881.7	865.9	853.2	836.5	821.5	807.6	800.9	795.4	788.6	785.5	778.7
12.5°	854.4	835.4	821.1	803.7	788.2	770.8	764.5	753.0	741.5	734.0	724.8
15°	829.0	806.8	789.8	769.2	751.0	732.0	714.9	695.9	688.8	673.8	665.0
17.5°	798.9	775.9	756.9	730.4	703.1	680.1	661.1	641.3	630.6	620.3	615.9
20°	769.2	748.6	719.3	687.2	655.9	629.8	615.1	603.2	591.4	584.6	579.9
22.5°	741.1	713.4	678.1	642.9	611.6	592.6	580.7	568.4	559.3	552.9	546.2
25°	709.0	674.5	638.5	598.9	577.5	559.7	546.2	536.3	530.4	522.0	518.9
27.5°	677.7	636.1	595.3	568.4	546.2	529.2	516.9	509.8	501.8	496.3	491.9
30°	640.5	598.1	562.5	537.1	514.5	501.1	491.6	482.8	476.9	472.5	469.4
32.5°	603.6	561.3	532.7	505.0	488.4	475.3	465.0	459.1	454.7	448.8	447.2
35°	568.4	530.8	504.6	480.1	461.8	450.0	442.0	435.3	431.3	429.8	428.6
37.5°	533.9	502.6	473.7	453.9	436.9	427.8	417.5	414.3	411.5	408.0	409.6
40°	501.5	472.5	447.6	426.2	413.1	402.8	397.3	393.3	390.9	390.9	390.9
42.5°	473.3	445.2	421.0	402.4	389.4	381.0	374.7	371.5	371.1	370.7	373.1
45°	444.0	417.9	393.3	377.5	366.4	357.7	354.1	351.3	351.3	352.9	353.3
47.5°	414.7	390.2	370.3	352.1	341.8	336.3	333.1	331.5	331.5	333.5	335.1
50°	388.2	364.0	344.6	328.8	319.3	314.1	311.3	310.5	311.3	311.3	314.1
52.5°	359.3	338.3	319.3	306.6	295.5	290.7	289.5	288.4	288.8	290.3	291.1
55°	331.1	311.7	293.5	280.8	272.9	269.7	266.2	266.6	265.8	266.6	266.6
57.5°	302.6	285.6	267.8	257.5	250.7	246.0	242.0	243.2	242.0	242.0	241.6
60°	275.3	256.3	242.8	233.7	225.8	221.8	218.2	219.0	217.9	217.1	215.5
62.5°	245.6	230.5	217.9	209.1	203.2	198.4	194.9	193.7	190.5	187.4	183.4
65°	217.1	204.0	192.5	184.2	178.2	174.7	171.9	169.5	163.6	157.2	154.1
67.5°	188.9	179.4	168.3	161.2	156.5	151.7	146.6	142.2	136.3	132.3	130.3
70°	162.0	152.9	143.8	137.0	131.9	127.5	121.6	118.8	114.9	113.3	111.3
72.5°	136.3	127.9	119.6	113.7	108.1	105.0	100.6	97.8	96.6	96.3	94.3
75°	110.1	103.4	97.0	91.5	87.1	84.8	82.8	80.8	80.0	76.4	74.5
77.5°	84.8	80.0	76.0	71.7	68.9	67.3	63.0	60.2	58.6	56.6	56.2
80°	62.6	59.4	55.5	53.1	48.7	47.1	45.6	45.2	44.8	44.4	44.0
82.5°	43.2	40.0	36.0	34.9	34.5	33.7	32.9	32.5	32.1	32.5	32.5
85°	23.8	22.2	22.2	21.8	21.4	21.0	20.6	20.6	20.2	20.6	20.2
87.5°	9.9	9.5	9.5	8.7	9.1	9.1	8.7	8.7	9.1	8.3	8.3
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: P242733

CATALOG NUMBER: S124RDRP-S795D927-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	983.1	983.1	983.1	983.1
2.5°	927.3	928.0	925.3	924.5
5°	870.6	869.8	867.8	868.2
7.5°	821.5	818.7	820.7	817.5
10°	777.1	772.8	769.2	766.0
12.5°	716.5	713.0	707.8	709.8
15°	659.9	653.9	644.4	645.6
17.5°	609.2	610.0	604.4	606.0
20°	571.6	568.8	569.2	568.0
22.5°	545.4	541.9	538.3	535.5
25°	515.3	512.9	509.4	508.6
27.5°	488.8	488.4	486.8	484.8
30°	466.2	465.4	464.6	463.4
32.5°	446.0	445.6	444.8	445.2
35°	427.0	426.6	425.8	425.4
37.5°	409.2	410.4	409.6	409.6
40°	390.5	390.9	391.7	391.3
42.5°	375.1	375.1	376.3	374.7
45°	356.1	358.5	358.1	358.1
47.5°	335.9	338.7	339.1	339.1
50°	316.1	315.3	316.5	316.1
52.5°	291.9	292.3	291.9	291.5
55°	267.0	267.4	266.6	267.0
57.5°	240.4	238.8	240.0	239.2
60°	211.5	208.3	207.6	206.0
62.5°	179.0	177.1	173.9	175.9
65°	150.9	149.3	148.1	149.7
67.5°	128.3	127.5	127.5	126.7
70°	111.3	110.1	110.1	109.3
72.5°	93.9	92.7	93.1	92.7
75°	72.1	70.1	70.1	70.5
77.5°	56.2	55.8	56.6	55.5
80°	44.0	43.6	43.2	44.4
82.5°	31.7	31.7	31.7	33.3
85°	20.6	19.8	20.6	19.8
87.5°	9.1	8.7	8.3	8.7
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242733
 CATALOG NUMBER: S124RDRP-S795D927-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	16.63	18.16	17.00	18.47	18.78	18.45	19.97	18.82	20.29	20.60
	3H	17.86	19.23	18.24	19.55	19.92	19.91	21.27	20.28	21.60	21.96
	4H	18.29	19.57	18.69	19.92	20.30	20.42	21.70	20.82	22.05	22.43
	6H	18.57	19.75	18.98	20.12	20.51	20.77	21.96	21.19	22.32	22.71
	8H	18.65	19.77	19.07	20.16	20.56	20.88	22.00	21.30	22.39	22.79
	12H	18.70	19.77	19.13	20.16	20.59	20.93	22.01	21.36	22.39	22.82
4H	2H	17.89	19.17	18.29	19.52	19.90	18.96	20.24	19.36	20.59	20.97
	3H	19.13	20.19	19.54	20.59	20.99	20.70	21.76	21.11	22.16	22.56
	4H	19.59	20.55	20.03	20.96	21.40	21.33	22.28	21.76	22.70	23.14
	6H	19.92	20.75	20.37	21.19	21.65	21.78	22.61	22.24	23.06	23.52
	8H	20.01	20.79	20.47	21.23	21.70	21.92	22.70	22.38	23.14	23.61
	12H	20.08	20.77	20.56	21.25	21.72	22.01	22.70	22.49	23.18	23.65
8H	4H	20.00	20.77	20.46	21.22	21.68	21.44	22.22	21.90	22.66	23.13
	6H	20.38	21.02	20.88	21.51	21.99	21.98	22.62	22.48	23.11	23.59
	8H	20.52	21.09	21.03	21.60	22.09	22.17	22.75	22.69	23.26	23.75
	12H	20.63	21.14	21.14	21.63	22.19	22.32	22.83	22.83	23.32	23.88
12H	4H	20.03	20.72	20.51	21.20	21.67	21.43	22.12	21.91	22.60	23.07
	6H	20.43	21.00	20.94	21.51	22.00	21.97	22.55	22.48	23.06	23.54
	8H	20.61	21.12	21.12	21.61	22.17	22.20	22.71	22.71	23.20	23.77