

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: P243623

Luminaire Tested: S124RDRP-H795D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243623  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-70)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDRP-H795D940-X4F0-XX-UDD-A-W  
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

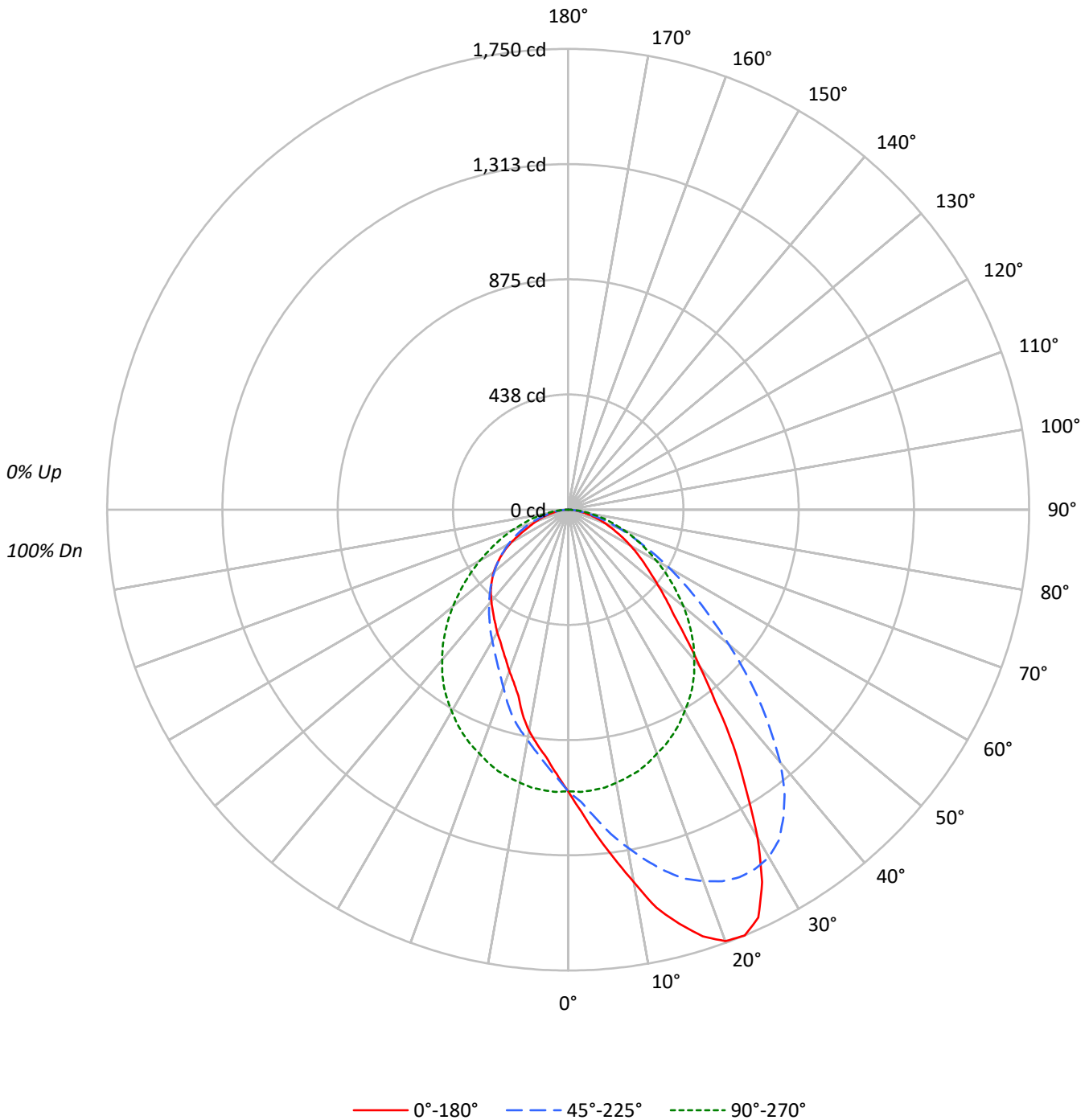
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2759.1 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.23 / 1.39  
Luminous Opening: Rectangular (W 3.88' x L: 0.31' 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	105	102	98	107	103	100	97	99	96	93	95	93	91	92	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65					63				
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57					55				
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50					48				
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44					42				
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40					38				
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32					31				
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	39	34	30					28				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	9502	9502	9502	9502	9502
5°	11069	10471	9542	8662	8424
10°	12963	11757	9503	8014	7703
15°	14979	13071	9455	7489	6727
20°	16491	14196	9320	6800	6167
25°	16756	15102	9235	6275	5765
30°	14749	15638	9071	5905	5529
35°	11836	15462	8917	5642	5349
40°	9004	14525	8632	5415	5266
45°	7148	12905	8316	5228	5202
50°	6137	11001	7904	5060	5112
55°	5419	9342	7394	4883	4865
60°	4855	7897	6860	4663	4455
65°	4272	6497	6339	4343	3748
70°	3807	5356	5757	3982	3376
75°	3318	4204	5234	3503	3002
80°	2810	3220	4494	2964	2769
85°	2458	2631	3865	2886	2805

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 55°  
 Vertical Angle: 45°  
 Luminance: 13888 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.7	3.8
10°-20°	314.6	11.4
20°-30°	490.9	17.8
30°-40°	547.4	19.8
40°-50°	492.1	17.8
50°-60°	388.8	14.1
60°-70°	258.3	9.4
70°-80°	129.5	4.7
80°-90°	33.7	1.2
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°	909.2	33.0
0°-40°	1456.7	52.8
0°-60°	2337.6	84.7
0°-90°	2759.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2759.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1069	1069	1069	1069	1069	
5°	1240	1174	1069	971	944	124
15°	1628	1420	1027	814	731	463
25°	1708	1540	942	640	588	765
35°	1091	1425	822	520	493	678
45°	569	1027	662	416	414	451
55°	350	603	477	315	314	315
65°	203	309	301	206	178	203
75°	97	122	152	102	87	103
85°	24	26	38	28	28	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°	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0
2.5°	1148.1	1144.0	1143.5	1138.1	1137.7	1132.3	1130.6	1126.1	1116.9	1109.8	1110.2
5°	1240.5	1237.2	1236.8	1231.4	1229.7	1223.0	1212.6	1200.2	1185.6	1173.5	1165.6
7.5°	1335.4	1341.3	1335.0	1335.0	1323.0	1315.0	1294.7	1284.2	1259.3	1241.8	1223.5
10°	1436.2	1441.6	1439.1	1434.1	1418.3	1402.1	1380.8	1360.4	1330.0	1302.6	1284.2
12.5°	1548.6	1532.3	1542.8	1527.4	1514.4	1488.6	1468.2	1427.4	1403.3	1363.3	1327.5
15°	1627.7	1621.4	1621.0	1610.6	1596.5	1568.2	1546.1	1503.6	1462.4	1420.4	1380.0
17.5°	1698.4	1699.3	1693.5	1676.8	1658.5	1631.0	1601.0	1563.2	1516.1	1469.5	1421.6
20°	1743.4	1743.8	1739.7	1730.9	1710.9	1686.0	1655.2	1605.6	1552.3	1500.7	1452.8
22.5°	1750.1	1751.3	1750.1	1744.7	1730.9	1710.5	1682.2	1640.2	1586.5	1527.4	1470.3
25°	1708.4	1712.6	1713.0	1720.5	1713.4	1705.5	1684.7	1649.3	1599.8	1539.8	1477.8
27.5°	1594.4	1606.0	1616.9	1630.2	1642.2	1653.1	1654.7	1636.0	1593.5	1537.8	1478.6
30°	1437.0	1450.8	1472.4	1486.6	1524.0	1547.8	1579.8	1586.9	1566.5	1523.6	1466.6
32.5°	1253.9	1268.4	1276.7	1323.4	1377.1	1415.8	1469.1	1500.7	1508.6	1488.2	1441.6
35°	1090.7	1093.2	1099.4	1152.3	1205.6	1264.3	1330.5	1385.4	1422.9	1424.9	1402.1
37.5°	915.8	918.7	943.3	983.7	1029.9	1094.4	1170.6	1248.9	1317.5	1349.2	1342.5
40°	776.0	775.1	801.4	836.3	881.3	948.3	1027.0	1112.3	1185.6	1251.8	1267.6
42.5°	662.7	665.6	688.1	708.5	751.8	798.9	882.9	971.6	1065.7	1138.1	1186.4
45°	568.6	576.1	591.5	610.7	643.2	686.5	755.1	843.4	939.6	1026.6	1084.4
47.5°	503.7	505.8	513.7	537.4	559.1	594.0	652.7	727.7	813.0	910.4	986.6
50°	443.8	448.8	451.7	465.8	487.1	520.4	565.7	621.5	706.0	795.5	890.9
52.5°	392.1	395.1	400.5	413.4	430.0	453.3	489.1	538.3	608.6	691.5	781.4
55°	349.7	350.1	355.5	364.7	377.6	395.5	429.6	465.0	527.4	602.8	684.4
57.5°	311.4	308.9	313.9	319.3	331.8	347.2	369.2	405.5	454.2	518.3	592.0
60°	273.1	275.2	274.7	281.0	287.7	303.1	321.8	345.5	385.5	444.2	506.6
62.5°	237.3	236.9	241.0	244.8	249.4	261.8	277.2	296.8	328.0	371.3	431.7
65°	203.1	204.0	207.3	210.2	215.2	223.1	234.8	250.6	275.6	308.9	359.7
67.5°	172.3	175.3	176.9	177.8	182.3	188.2	198.2	211.1	228.1	254.8	297.2
70°	146.5	147.4	148.2	151.1	153.2	156.5	164.0	171.1	186.5	206.1	236.9
72.5°	122.4	121.6	124.1	124.9	125.7	129.0	133.6	137.4	147.4	164.0	183.2
75°	96.6	97.0	97.4	98.7	102.0	102.4	104.5	108.7	115.7	122.4	135.3
77.5°	72.4	73.7	73.3	74.5	75.8	77.0	77.8	81.6	86.6	92.0	98.2
80°	54.9	54.9	54.9	55.8	54.9	57.9	57.9	59.1	60.4	62.9	67.4
82.5°	37.5	38.3	38.7	39.1	39.5	39.5	40.0	40.8	42.5	43.3	44.5
85°	24.1	23.3	23.7	23.7	23.7	23.7	24.6	25.4	25.4	25.8	27.1
87.5°	10.8	10.8	10.8	10.8	10.4	10.8	11.2	11.2	11.7	11.7	12.5
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°	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0
2.5°	1107.7	1106.5	1100.2	1093.6	1087.3	1081.1	1079.0	1072.8	1065.3	1058.6	1051.1
5°	1157.3	1147.3	1133.5	1119.4	1104.8	1091.5	1081.1	1069.4	1056.1	1040.3	1027.8
7.5°	1207.2	1188.9	1166.4	1145.6	1120.6	1100.7	1080.7	1064.0	1044.9	1022.4	1005.3
10°	1255.9	1225.5	1198.1	1165.2	1133.5	1106.1	1080.7	1052.8	1027.4	1003.2	979.5
12.5°	1294.7	1264.3	1224.7	1184.3	1143.5	1107.7	1073.6	1040.7	1009.1	979.9	953.7
15°	1338.8	1295.1	1246.4	1201.8	1146.0	1101.9	1062.8	1027.4	991.2	955.8	927.1
17.5°	1371.2	1319.6	1259.3	1208.1	1154.4	1099.4	1052.4	1007.8	966.2	929.2	899.6
20°	1396.2	1335.0	1274.7	1209.7	1145.6	1089.4	1036.6	985.3	943.3	902.9	871.7
22.5°	1407.0	1342.5	1275.5	1205.1	1136.9	1073.2	1018.2	965.4	917.9	876.3	840.1
25°	1411.6	1340.9	1271.3	1191.4	1122.3	1057.4	996.2	941.6	892.9	845.9	810.1
27.5°	1407.9	1332.1	1252.2	1176.8	1098.6	1034.9	969.9	914.6	863.8	818.4	778.5
30°	1397.9	1312.1	1232.6	1148.1	1072.8	1005.7	942.5	883.8	832.6	786.4	746.8
32.5°	1372.1	1289.7	1199.3	1116.9	1035.7	969.5	912.1	854.2	802.2	753.9	715.6
35°	1340.0	1259.3	1164.8	1078.6	998.3	931.2	873.4	821.7	770.5	719.3	680.2
37.5°	1299.6	1217.6	1126.5	1033.6	955.0	890.0	837.2	785.1	734.3	687.3	643.6
40°	1245.1	1170.2	1078.6	985.3	906.3	843.8	791.8	743.9	698.9	652.7	605.7
42.5°	1177.3	1120.2	1025.7	933.7	856.3	794.3	748.1	705.2	661.9	614.4	572.0
45°	1104.8	1056.1	970.4	877.5	803.8	743.5	699.4	661.5	620.7	578.6	534.1
47.5°	1023.2	987.0	912.9	820.9	743.5	691.9	651.1	616.5	579.5	542.0	498.7
50°	931.2	909.2	845.9	762.2	688.5	636.1	602.4	571.6	539.9	502.5	465.4
52.5°	839.2	835.1	776.0	702.3	632.8	584.0	551.2	522.9	497.0	461.7	430.4
55°	742.7	755.1	706.0	638.2	576.1	529.1	500.0	477.1	454.6	424.6	394.6
57.5°	656.9	671.1	637.3	574.9	517.0	477.1	452.1	431.3	411.7	384.2	364.3
60°	562.0	587.8	569.9	512.9	461.7	425.9	402.5	385.9	369.7	345.9	328.4
62.5°	487.1	505.0	494.5	452.1	406.7	377.6	356.8	341.4	328.4	310.1	293.1
65°	406.7	429.2	423.8	395.9	355.9	329.3	313.5	301.4	288.1	273.5	259.3
67.5°	334.3	357.6	356.3	337.2	307.6	285.6	270.6	261.8	251.0	236.9	228.1
70°	268.9	290.6	291.4	281.8	261.0	240.2	229.4	221.5	213.1	202.7	196.5
72.5°	209.0	228.5	231.9	227.3	214.0	200.2	190.7	185.2	178.2	169.4	164.0
75°	156.1	170.3	178.2	176.1	170.7	161.5	156.1	152.4	145.3	139.0	134.5
77.5°	111.1	122.4	130.3	133.6	131.1	127.4	122.4	119.5	112.0	109.1	106.6
80°	74.5	84.5	91.6	93.7	94.9	94.1	89.5	87.8	84.1	82.8	80.3
82.5°	45.8	51.2	56.2	61.6	64.1	64.1	61.6	62.0	58.7	57.0	56.2
85°	27.9	29.1	30.0	34.1	37.5	38.7	37.5	37.9	36.6	35.4	34.1
87.5°	12.9	12.9	13.3	14.2	15.0	17.5	18.3	19.6	17.9	17.9	15.0
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°	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0
2.5°	1046.5	1041.1	1037.0	1030.3	1024.9	1016.2	1013.2	1013.2	1014.9	1012.8	1014.9
5°	1019.1	1009.1	998.3	988.7	978.3	970.8	963.3	961.6	960.8	955.8	956.2
7.5°	991.6	978.3	964.5	952.0	939.1	927.5	919.6	916.2	913.3	910.0	906.3
10°	962.0	946.6	930.4	916.2	903.8	887.9	880.0	877.5	869.2	867.5	861.7
12.5°	930.8	915.0	898.8	880.4	868.4	853.0	841.3	835.9	828.0	822.2	813.4
15°	906.3	886.3	864.6	846.7	830.9	813.8	798.0	787.6	777.2	761.0	753.1
17.5°	875.9	853.0	834.2	815.1	792.2	767.2	748.5	733.1	721.8	708.5	700.6
20°	843.0	821.7	798.4	771.4	747.2	718.9	701.9	689.0	680.2	672.3	668.1
22.5°	813.8	789.3	757.2	731.4	697.7	675.2	661.5	653.2	644.8	636.5	632.3
25°	782.2	753.5	714.3	682.7	657.3	639.8	626.5	618.6	609.9	604.9	598.6
27.5°	751.0	713.9	674.8	646.1	626.1	605.7	594.5	588.2	581.6	574.5	569.5
30°	713.1	671.1	638.6	612.4	592.4	575.3	567.0	557.8	552.0	547.8	544.9
32.5°	673.6	633.2	603.6	581.1	561.6	548.7	538.3	532.4	527.4	522.9	519.5
35°	636.5	597.4	572.4	550.7	534.5	519.9	512.0	506.6	502.5	498.7	497.0
37.5°	599.9	566.6	539.5	522.4	505.4	493.7	486.2	481.2	478.7	475.0	475.4
40°	563.7	533.7	512.0	492.5	476.6	466.7	460.8	458.7	455.0	453.8	455.0
42.5°	531.2	503.7	482.9	464.6	450.8	441.3	436.7	433.8	432.5	432.1	432.5
45°	499.5	473.7	453.8	438.8	424.6	415.9	412.1	410.0	408.8	410.9	411.3
47.5°	467.9	444.6	426.7	409.2	397.6	391.3	387.6	385.9	387.1	388.0	390.9
50°	436.7	415.0	396.3	380.9	371.7	365.9	364.7	361.8	363.8	365.1	367.2
52.5°	405.0	385.5	368.8	354.3	344.7	340.9	338.0	336.8	339.7	339.7	341.8
55°	373.0	355.9	340.5	327.2	319.7	315.1	313.0	311.4	313.0	313.5	313.0
57.5°	343.0	326.8	310.5	299.3	293.1	288.1	286.0	285.2	284.7	286.4	286.0
60°	311.4	296.0	283.1	271.4	265.2	262.3	257.7	258.5	258.5	258.5	254.4
62.5°	279.7	264.3	253.1	245.2	237.7	232.7	231.9	230.6	228.1	227.7	222.3
65°	247.3	235.6	226.0	218.1	210.6	206.5	205.2	201.5	198.6	193.2	189.4
67.5°	217.3	209.0	197.7	191.1	184.8	179.8	175.3	172.3	166.5	161.1	157.8
70°	187.3	178.6	171.1	164.0	157.8	153.2	147.8	142.4	138.6	135.3	132.8
72.5°	157.4	149.9	143.6	137.0	130.3	125.7	121.6	117.4	115.7	114.1	112.8
75°	129.5	122.4	116.6	111.1	107.4	102.0	99.9	98.2	96.6	94.5	92.0
77.5°	102.4	97.0	92.4	87.8	84.5	81.6	79.9	74.9	70.8	69.9	69.1
80°	76.2	72.0	69.1	65.8	62.0	57.9	56.6	54.9	54.1	54.1	54.5
82.5°	53.3	50.8	47.5	44.5	43.3	41.6	41.6	41.2	40.8	41.2	41.2
85°	32.5	29.1	28.3	27.9	28.3	28.3	28.3	28.3	27.9	28.3	27.5
87.5°	14.2	15.4	15.8	14.6	15.0	14.2	14.6	14.6	14.6	15.0	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



TEST NUMBER: P243623

CATALOG NUMBER: S124RDRP-H795D940-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1069.0	1069.0	1069.0	1069.0
2.5°	1012.4	1012.4	1008.2	1004.9
5°	955.4	950.0	949.1	944.1
7.5°	902.1	901.3	899.2	899.2
10°	859.6	856.7	853.8	853.4
12.5°	799.7	803.8	798.9	797.6
15°	747.2	743.9	739.7	731.0
17.5°	698.5	692.3	690.6	686.9
20°	660.2	655.7	654.0	651.9
22.5°	624.0	623.2	618.2	616.9
25°	597.4	593.2	589.9	587.8
27.5°	568.2	565.3	563.7	560.3
30°	541.6	540.8	538.7	538.7
32.5°	517.4	514.9	514.9	514.5
35°	495.4	496.2	493.7	492.9
37.5°	474.6	473.3	473.7	472.9
40°	454.2	453.3	453.3	453.8
42.5°	433.4	433.8	434.6	434.6
45°	412.5	413.0	413.8	413.8
47.5°	393.0	392.1	393.0	392.1
50°	368.0	370.5	370.1	369.7
52.5°	342.6	341.8	343.4	343.0
55°	315.1	313.9	315.5	313.9
57.5°	284.3	284.7	284.7	283.9
60°	253.5	252.3	250.6	250.6
62.5°	217.7	214.0	211.5	213.1
65°	183.2	180.3	179.4	178.2
67.5°	155.7	152.4	151.1	150.7
70°	132.0	130.3	129.9	129.9
72.5°	112.0	112.0	110.7	109.9
75°	91.2	89.5	87.4	87.4
77.5°	68.3	67.9	67.4	67.4
80°	53.3	53.3	53.7	54.1
82.5°	40.0	40.4	40.8	40.8
85°	27.1	27.1	27.5	27.5
87.5°	14.6	14.6	14.6	14.2
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243623  
 CATALOG NUMBER: S124RDRP-H795D940-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	17.16	18.70	17.53	19.01	19.33	18.86	20.39	19.22	20.71	21.02
	3H	18.40	19.77	18.77	20.10	20.46	20.34	21.72	20.72	22.05	22.41
	4H	18.83	20.12	19.23	20.47	20.85	20.88	22.18	21.28	22.52	22.90
	6H	19.11	20.30	19.52	20.67	21.06	21.27	22.46	21.68	22.83	23.22
	8H	19.19	20.33	19.62	20.72	21.12	21.39	22.53	21.82	22.92	23.32
	12H	19.25	20.34	19.68	20.72	21.15	21.47	22.56	21.90	22.94	23.37
4H	2H	18.37	19.66	18.77	20.01	20.39	19.39	20.68	19.79	21.03	21.41
	3H	19.64	20.71	20.05	21.11	21.51	21.16	22.24	21.57	22.64	23.04
	4H	20.11	21.08	20.54	21.49	21.93	21.82	22.79	22.25	23.20	23.64
	6H	20.44	21.28	20.90	21.73	22.19	22.32	23.16	22.78	23.60	24.06
	8H	20.55	21.33	21.01	21.78	22.24	22.47	23.26	22.94	23.70	24.17
	12H	20.62	21.32	21.10	21.80	22.27	22.59	23.29	23.07	23.77	24.24
8H	4H	20.52	21.31	20.99	21.75	22.22	21.95	22.73	22.41	23.18	23.65
	6H	20.92	21.57	21.42	22.06	22.54	22.55	23.20	23.04	23.69	24.16
	8H	21.07	21.65	21.58	22.16	22.65	22.77	23.35	23.28	23.86	24.35
	12H	21.19	21.70	21.70	22.19	22.76	22.95	23.46	23.45	23.95	24.52
12H	4H	20.57	21.27	21.05	21.75	22.22	21.94	22.64	22.42	23.12	23.59
	6H	20.98	21.56	21.49	22.07	22.56	22.54	23.12	23.05	23.63	24.12
	8H	21.17	21.68	21.68	22.17	22.74	22.80	23.32	23.31	23.81	24.37