

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P199527

Luminaire Tested: **S125-DIW-U1-2-35-0048-1D-UDD-1-5-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199527
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P27900 P27900)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125-DIW-U1-2-35-0048-1D-UDD-1-5-W
Description: DEFINE 5-INCH DIRECT/INDIRECT WALL LED LUMINAIRE
UPLIGHT LL1-3500K, SATIN WHITE DIFFUSER
DOWNLIGHT LL2-3500K, SATIN WHITE DIFFUSER
Light Source: -
757G
Ballast/Driver: ELECTRONIC DRIVERS

Summary

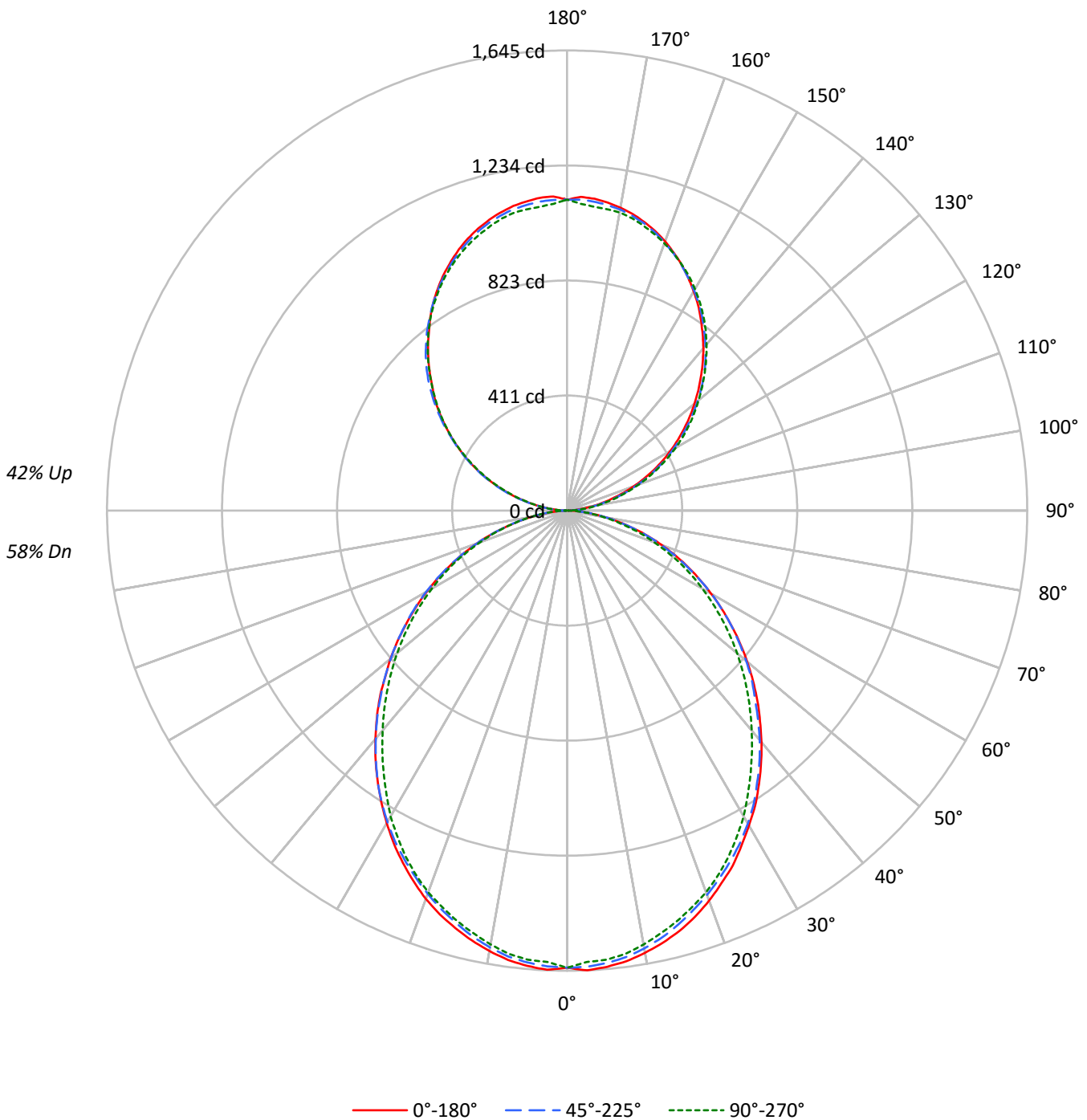
Lumens per Lamp: N/A
Luminaire Lumens: 7075.0 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4.08' x H: 0.38')
CIE Type: General Diffuse

Input Watts (W): 67
Input Voltage (V): NR
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: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58																			
1	100	95	91	88	93	89	86	82	77	74	72	66	64	63	56	55	54	49																			
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41																			
3	83	73	66	60	77	69	62	57	60	55	50	51	48	44	44	41	39	35																			
4	76	65	57	51	70	61	54	48	53	48	43	46	42	38	39	36	33	30																			
5	70	58	50	44	65	54	47	41	48	42	37	41	37	33	35	32	29	26																			
6	64	52	44	38	60	49	41	36	43	37	33	37	33	29	32	28	26	23																			
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	29	26	23	20																			
8	55	43	35	30	51	40	33	28	36	30	26	31	26	23	27	23	20	18																			
9	51	39	32	26	48	37	30	25	33	27	23	29	24	21	25	21	19	16																			
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	23	19	17	15																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	10338	10338	10338
5°	10313	9490	10294
10°	10146	8732	10108
15°	9940	8016	9876
20°	9668	7364	9622
25°	9378	6712	9298
30°	9019	6067	8949
35°	8672	5420	8570
40°	8289	4828	8174
45°	7883	4285	7768
50°	7452	3766	7310
55°	6991	3258	6826
60°	6495	2759	6321
65°	5953	2279	5741
70°	5317	1768	5066
75°	4460	1256	4151
80°	3378	782	3090
85°	2019	341	1771



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.6	2.2
10°-20°	431.3	6.1
20°-30°	633.7	9.0
30°-40°	731.9	10.3
40°-50°	725.5	10.3
50°-60°	629.2	8.9
60°-70°	459.6	6.5
70°-80°	251.1	3.5
80°-90°	65.3	0.9
90°-100°	55.3	0.8
100°-110°	199.0	2.8
110°-120°	354.1	5.0
120°-130°	472.2	6.7
130°-140°	534.2	7.6
140°-150°	527.7	7.5
150°-160°	446.9	6.3
160°-170°	299.2	4.2
170°-180°	105.0	1.5
0°-30°	1218.7	17.2
0°-40°	1950.6	27.6
0°-60°	3305.3	46.7
0°-90°	4081.3	57.7
90°-120°	608.4	8.6
90°-150°	2142.5	30.3
90°-180°	2994.0	42.3
0°-180°	7075.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1634	1634	1634	1634	1634	
5°	1637	1624	1612	1622	1634	155
15°	1555	1533	1519	1528	1545	438
25°	1401	1382	1365	1376	1389	644
35°	1195	1185	1144	1181	1181	747
45°	962	949	910	944	948	742
55°	717	716	675	703	700	641
65°	476	472	446	461	459	472
75°	245	243	224	229	228	261
85°	57	60	53	53	50	64
90°	2	4	2	3	2	6
95°	38	45	50	53	49	43
105°	169	182	189	196	192	181
115°	340	354	359	367	365	336
125°	510	523	532	540	533	457
135°	676	693	695	709	694	522
145°	834	842	849	854	852	521
155°	969	968	970	977	983	446
165°	1068	1063	1054	1068	1076	301
175°	1119	1108	1090	1109	1122	106
180°	1111	1111	1111	1111	1111	



TEST NUMBER: P199527

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0
2.5°	1645.0	1628.0	1632.0	1629.0	1615.0	1627.0	1631.0	1625.0	1643.0
5°	1637.0	1620.0	1624.0	1620.0	1612.0	1618.0	1622.0	1616.0	1634.0
7.5°	1625.0	1607.0	1610.0	1606.0	1598.0	1603.0	1608.0	1602.0	1620.0
10°	1605.0	1588.0	1589.0	1584.0	1575.0	1581.0	1586.0	1581.0	1599.0
12.5°	1582.0	1564.0	1564.0	1556.0	1548.0	1553.0	1560.0	1556.0	1574.0
15°	1555.0	1536.0	1533.0	1528.0	1519.0	1525.0	1528.0	1527.0	1545.0
17.5°	1522.0	1502.0	1498.0	1497.0	1486.0	1494.0	1495.0	1492.0	1514.0
20°	1484.0	1465.0	1462.0	1461.0	1452.0	1458.0	1458.0	1454.0	1477.0
22.5°	1442.0	1424.0	1423.0	1421.0	1411.0	1418.0	1418.0	1412.0	1435.0
25°	1401.0	1379.0	1382.0	1377.0	1365.0	1375.0	1376.0	1366.0	1389.0
27.5°	1350.0	1333.0	1339.0	1330.0	1314.0	1327.0	1333.0	1318.0	1342.0
30°	1300.0	1282.0	1292.0	1276.0	1262.0	1274.0	1285.0	1266.0	1290.0
32.5°	1251.0	1230.0	1242.0	1222.0	1202.0	1217.0	1235.0	1217.0	1236.0
35°	1195.0	1178.0	1185.0	1164.0	1144.0	1159.0	1181.0	1164.0	1181.0
37.5°	1139.0	1125.0	1130.0	1105.0	1085.0	1100.0	1123.0	1110.0	1125.0
40°	1081.0	1071.0	1071.0	1046.0	1026.0	1040.0	1064.0	1057.0	1066.0
42.5°	1021.0	1017.0	1009.0	987.0	968.0	982.0	1005.0	1003.0	1007.0
45°	962.0	962.0	949.0	926.0	910.0	923.0	944.0	949.0	948.0
47.5°	901.0	906.0	895.0	870.0	852.0	865.0	884.0	893.0	883.0
50°	840.0	849.0	835.0	813.0	793.0	807.0	823.0	835.0	824.0
52.5°	779.0	790.0	775.0	754.0	734.0	747.0	763.0	777.0	763.0
55°	717.0	730.0	716.0	694.0	675.0	687.0	703.0	717.0	700.0
57.5°	656.0	668.0	656.0	634.0	616.0	627.0	644.0	655.0	640.0
60°	595.0	608.0	596.0	575.0	558.0	567.0	583.0	594.0	579.0
62.5°	535.0	546.0	533.0	516.0	503.0	507.0	522.0	535.0	519.0
65°	476.0	486.0	472.0	457.0	446.0	448.0	461.0	468.0	459.0
67.5°	418.0	429.0	414.0	400.0	387.0	391.0	402.0	412.0	401.0
70°	360.0	371.0	355.0	343.0	332.0	334.0	343.0	354.0	343.0
72.5°	303.0	312.0	301.0	287.0	279.0	281.0	286.0	296.0	285.0
75°	245.0	255.0	243.0	232.0	224.0	226.0	229.0	237.0	228.0
77.5°	191.0	198.0	190.0	181.0	176.0	177.0	178.0	184.0	176.0
80°	141.0	147.0	142.0	135.0	131.0	131.0	131.0	136.0	129.0
82.5°	96.0	102.0	98.0	93.0	90.0	87.0	89.0	93.0	87.0
85°	57.0	62.0	60.0	55.0	53.0	51.0	53.0	55.0	50.0
87.5°	26.0	30.0	27.0	22.0	20.0	18.0	18.0	21.0	17.0
90°	2.0	5.0	4.0	3.0	2.0	2.0	3.0	4.0	2.0
92.5°	13.2	18.1	18.1	16.0	19.4	22.2	27.1	27.1	23.6
95°	38.2	43.1	45.1	46.5	50.0	51.4	52.8	52.8	48.6
97.5°	65.3	72.2	73.6	75.7	79.9	80.6	82.7	83.3	78.5
100°	95.9	104.2	105.6	108.4	113.2	113.9	116.7	118.1	113.2
102.5°	130.6	140.3	142.4	144.5	147.9	150.7	154.2	156.3	150.7
105°	168.8	180.6	182.0	184.8	188.9	191.7	195.9	197.3	192.4
107.5°	211.1	220.2	224.3	225.7	229.9	232.7	238.2	238.9	234.8
110°	252.8	261.2	266.7	268.1	272.3	275.0	280.6	280.6	277.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	295.9	304.9	309.8	311.2	316.0	318.1	323.7	324.4	320.9
115°	339.6	348.0	353.5	354.9	359.1	361.9	366.7	368.1	364.6
117.5°	383.4	391.7	395.9	398.7	403.5	405.6	408.4	410.5	407.0
120°	425.8	434.1	437.6	441.7	446.6	448.7	452.9	451.5	449.4
122.5°	468.8	476.5	479.9	484.8	490.4	491.1	493.8	493.1	491.8
125°	510.5	516.8	523.0	525.8	532.0	532.0	539.7	533.4	533.4
127.5°	552.9	557.7	566.1	567.5	573.0	573.7	582.7	573.7	575.8
130°	594.5	598.0	609.1	609.1	613.3	614.7	626.5	614.0	616.8
132.5°	635.5	638.3	651.5	650.1	654.3	655.7	668.9	654.3	653.6
135°	676.5	677.9	693.2	691.1	695.3	697.3	709.2	693.2	693.9
137.5°	716.8	716.1	732.1	731.4	735.5	736.9	748.0	729.3	734.2
140°	757.8	752.9	769.6	771.0	775.1	776.5	784.2	769.6	773.7
142.5°	795.3	793.2	805.7	807.8	813.3	813.3	820.3	805.7	811.3
145°	833.5	828.6	842.5	842.5	848.8	848.1	853.6	843.9	851.5
147.5°	871.0	864.7	876.5	877.2	882.8	882.8	887.7	877.9	887.7
150°	905.0	899.5	907.8	908.5	914.0	913.4	918.2	913.4	921.7
152.5°	937.7	932.1	937.7	937.0	943.9	941.8	948.1	943.9	953.6
155°	968.9	962.7	967.5	964.8	970.3	969.6	976.6	975.2	982.8
157.5°	997.4	990.5	994.6	991.1	994.6	995.3	1003.0	1002.3	1010.6
160°	1023.8	1016.8	1019.6	1013.4	1016.8	1017.5	1027.3	1027.3	1035.6
162.5°	1047.4	1039.8	1042.5	1032.8	1036.3	1036.3	1048.8	1048.8	1057.1
165°	1067.5	1060.6	1062.7	1050.9	1054.4	1055.0	1067.5	1068.2	1075.9
167.5°	1085.6	1078.0	1078.7	1067.5	1070.3	1071.0	1082.1	1083.5	1092.6
170°	1099.5	1092.6	1092.6	1080.0	1082.1	1082.8	1094.6	1096.7	1105.7
172.5°	1110.6	1103.0	1101.6	1088.4	1087.0	1090.5	1102.3	1106.4	1114.8
175°	1118.9	1110.6	1108.5	1095.3	1090.5	1097.4	1109.2	1112.7	1122.4
177.5°	1122.4	1114.1	1112.7	1098.8	1098.1	1100.2	1111.3	1115.5	1123.8
180°	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3

(END OF REPORT)