

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: P199525

Luminaire Tested: **S125-DIP-U1-2-30-X-X0048-1D-UDD-1-5-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199525  
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-DIP-U1-2-30-X-X0048-1D-UDD-1-5-W  
Description: DEFINE 5-INCH DIRECT/INDIRECT PENDANT LED LUMINAIRE  
UPLIGHT LL1-3000K, SATIN WHITE DIFFUSER  
DOWNLIGHT LL2-3000K, SATIN WHITE DIFFUSER  
Light Source: -  
757G  
Ballast/Driver: ELECTRONIC DRIVERS

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6935.1 lumens  
Efficiency: N/A  
Efficacy: 103.5 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

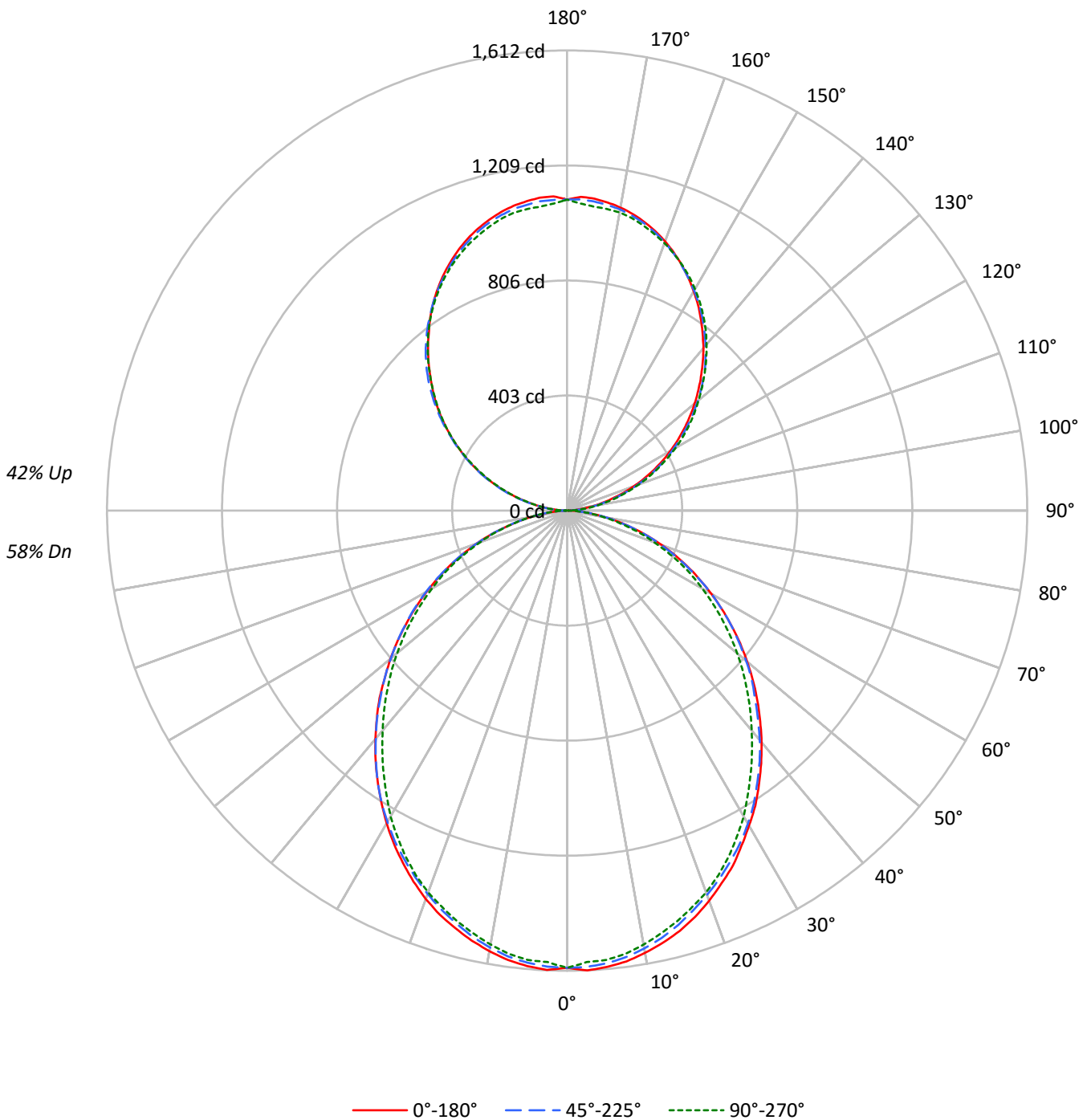
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				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	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°	10133	10133	10133
5°	10109	9302	10091
10°	9946	8560	9909
15°	9744	7858	9681
20°	9477	7218	9432
25°	9193	6579	9114
30°	8840	5947	8772
35°	8500	5313	8400
40°	8125	4732	8012
45°	7727	4200	7615
50°	7305	3691	7165
55°	6853	3194	6691
60°	6367	2705	6196
65°	5836	2234	5627
70°	5213	1733	4966
75°	4373	1231	4069
80°	3311	766	3028
85°	1980	334	1735



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.6	2.2
10°-20°	422.8	6.1
20°-30°	621.2	9.0
30°-40°	717.4	10.3
40°-50°	711.1	10.3
50°-60°	616.8	8.9
60°-70°	450.5	6.5
70°-80°	246.2	3.5
80°-90°	64.0	0.9
90°-100°	54.2	0.8
100°-110°	195.1	2.8
110°-120°	347.1	5.0
120°-130°	462.9	6.7
130°-140°	523.6	7.6
140°-150°	517.3	7.5
150°-160°	438.0	6.3
160°-170°	293.3	4.2
170°-180°	103.0	1.5
0°-30°	1194.6	17.2
0°-40°	1912.0	27.6
0°-60°	3239.9	46.7
0°-90°	4000.6	57.7
90°-120°	596.4	8.6
90°-150°	2100.1	30.3
90°-180°	2934.0	42.3
0°-180°	6935.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1602	1602	1602	1602	1602	
5°	1605	1592	1580	1590	1602	152
15°	1524	1503	1489	1498	1514	429
25°	1373	1355	1338	1349	1362	631
35°	1171	1162	1121	1158	1158	733
45°	943	930	892	925	929	727
55°	703	702	662	689	686	629
65°	467	463	437	452	450	462
75°	240	238	220	224	224	256
85°	56	59	52	52	49	63
90°	2	4	2	3	2	6
95°	37	44	49	52	48	42
105°	165	178	185	192	189	177
115°	333	346	352	360	357	329
125°	500	513	522	529	523	448
135°	663	680	682	695	680	512
145°	817	826	832	837	835	511
155°	950	948	951	957	963	437
165°	1046	1042	1034	1046	1055	295
175°	1097	1087	1069	1087	1100	104
180°	1089	1089	1089	1089	1089	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7
2.5°	1612.5	1595.8	1599.7	1596.8	1583.1	1594.8	1598.7	1592.9	1610.5
5°	1604.6	1588.0	1591.9	1588.0	1580.1	1586.0	1589.9	1584.0	1601.7
7.5°	1592.9	1575.2	1578.2	1574.2	1566.4	1571.3	1576.2	1570.3	1588.0
10°	1573.3	1556.6	1557.6	1552.7	1543.9	1549.7	1554.6	1549.7	1567.4
12.5°	1550.7	1533.1	1533.1	1525.2	1517.4	1522.3	1529.2	1525.2	1542.9
15°	1524.3	1505.6	1502.7	1497.8	1489.0	1494.8	1497.8	1496.8	1514.4
17.5°	1491.9	1472.3	1468.4	1467.4	1456.6	1464.5	1465.4	1462.5	1484.1
20°	1454.7	1436.0	1433.1	1432.1	1423.3	1429.2	1429.2	1425.2	1447.8
22.5°	1413.5	1395.8	1394.9	1392.9	1383.1	1390.0	1390.0	1384.1	1406.6
25°	1373.3	1351.7	1354.7	1349.8	1338.0	1347.8	1348.8	1339.0	1361.5
27.5°	1323.3	1306.6	1312.5	1303.7	1288.0	1300.8	1306.6	1291.9	1315.5
30°	1274.3	1256.7	1266.5	1250.8	1237.0	1248.8	1259.6	1241.0	1264.5
32.5°	1226.3	1205.7	1217.4	1197.8	1178.2	1192.9	1210.6	1192.9	1211.6
35°	1171.4	1154.7	1161.6	1141.0	1121.4	1136.1	1157.6	1141.0	1157.6
37.5°	1116.5	1102.8	1107.7	1083.2	1063.5	1078.2	1100.8	1088.1	1102.8
40°	1059.6	1049.8	1049.8	1025.3	1005.7	1019.4	1043.0	1036.1	1044.9
42.5°	1000.8	996.9	989.0	967.5	948.9	962.6	985.1	983.2	987.1
45°	943.0	943.0	930.2	907.7	892.0	904.7	925.3	930.2	929.3
47.5°	883.2	888.1	877.3	852.8	835.2	847.9	866.5	875.3	865.5
50°	823.4	832.2	818.5	796.9	777.3	791.0	806.7	818.5	807.7
52.5°	763.6	774.4	759.7	739.1	719.5	732.2	747.9	761.6	747.9
55°	702.8	715.6	701.8	680.3	661.7	673.4	689.1	702.8	686.2
57.5°	643.0	654.8	643.0	621.5	603.8	614.6	631.3	642.0	627.3
60°	583.2	596.0	584.2	563.6	547.0	555.8	571.5	582.3	567.6
62.5°	524.4	535.2	522.5	505.8	493.1	497.0	511.7	524.4	508.7
65°	466.6	476.4	462.7	448.0	437.2	439.1	451.9	458.7	449.9
67.5°	409.7	420.5	405.8	392.1	379.3	383.3	394.1	403.9	393.1
70°	352.9	363.7	348.0	336.2	325.4	327.4	336.2	347.0	336.2
72.5°	297.0	305.8	295.0	281.3	273.5	275.4	280.3	290.1	279.4
75°	240.2	250.0	238.2	227.4	219.6	221.5	224.5	232.3	223.5
77.5°	187.2	194.1	186.2	177.4	172.5	173.5	174.5	180.4	172.5
80°	138.2	144.1	139.2	132.3	128.4	128.4	128.4	133.3	126.4
82.5°	94.1	100.0	96.1	91.2	88.2	85.3	87.2	91.2	85.3
85°	55.9	60.8	58.8	53.9	52.0	50.0	52.0	53.9	49.0
87.5°	25.5	29.4	26.5	21.6	19.6	17.6	17.6	20.6	16.7
90°	2.0	4.9	3.9	2.9	2.0	2.0	2.9	3.9	2.0
92.5°	12.9	17.7	17.7	15.7	19.1	21.8	26.6	26.6	23.1
95°	37.4	42.2	44.3	45.6	49.0	50.4	51.7	51.7	47.7
97.5°	64.0	70.8	72.2	74.2	78.3	79.0	81.0	81.7	76.9
100°	94.0	102.1	103.5	106.2	111.0	111.7	114.4	115.7	111.0
102.5°	128.0	137.5	139.6	141.6	145.0	147.7	151.1	153.2	147.7
105°	165.4	177.0	178.4	181.1	185.2	187.9	192.0	193.4	188.6
107.5°	207.0	215.8	219.9	221.3	225.4	228.1	233.5	234.2	230.1
110°	247.8	256.0	261.4	262.8	266.9	269.6	275.1	275.1	271.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	290.0	298.9	303.7	305.0	309.8	311.8	317.3	317.9	314.5
115°	332.9	341.1	346.5	347.9	352.0	354.7	359.5	360.8	357.4
117.5°	375.8	384.0	388.1	390.8	395.6	397.6	400.3	402.4	399.0
120°	417.3	425.5	428.9	433.0	437.8	439.8	443.9	442.5	440.5
122.5°	459.6	467.1	470.5	475.2	480.7	481.3	484.1	483.4	482.0
125°	500.4	506.5	512.7	515.4	521.5	521.5	529.0	522.9	522.9
127.5°	541.9	546.7	554.9	556.2	561.7	562.4	571.2	562.4	564.4
130°	582.8	586.2	597.1	597.1	601.2	602.5	614.1	601.9	604.6
132.5°	623.0	625.7	638.6	637.3	641.3	642.7	655.6	641.3	640.7
135°	663.1	664.5	679.5	677.4	681.5	683.6	695.1	679.5	680.2
137.5°	702.6	701.9	717.6	716.9	721.0	722.4	733.3	714.9	719.6
140°	742.8	738.0	754.4	755.7	759.8	761.2	768.7	754.4	758.4
142.5°	779.6	777.5	789.8	791.8	797.3	797.3	804.1	789.8	795.2
145°	817.0	812.2	825.8	825.8	832.0	831.3	836.7	827.2	834.7
147.5°	853.8	847.6	859.2	859.9	865.3	865.3	870.1	860.6	870.1
150°	887.1	881.7	889.8	890.5	896.0	895.3	900.1	895.3	903.5
152.5°	919.1	913.7	919.1	918.4	925.2	923.2	929.3	925.2	934.8
155°	949.8	943.6	948.4	945.7	951.1	950.4	957.2	955.9	963.4
157.5°	977.7	970.9	975.0	971.5	975.0	975.6	983.1	982.4	990.6
160°	1003.5	996.7	999.5	993.3	996.7	997.4	1006.9	1006.9	1015.1
162.5°	1026.7	1019.2	1021.9	1012.4	1015.8	1015.8	1028.1	1028.1	1036.2
165°	1046.4	1039.6	1041.7	1030.1	1033.5	1034.2	1046.4	1047.1	1054.6
167.5°	1064.1	1056.7	1057.3	1046.4	1049.2	1049.8	1060.7	1062.1	1070.9
170°	1077.8	1070.9	1070.9	1058.7	1060.7	1061.4	1073.0	1075.0	1083.9
172.5°	1088.6	1081.2	1079.8	1066.9	1065.5	1068.9	1080.5	1084.6	1092.7
175°	1096.8	1088.6	1086.6	1073.7	1068.9	1075.7	1087.3	1090.7	1100.2
177.5°	1100.2	1092.1	1090.7	1077.1	1076.4	1078.4	1089.3	1093.4	1101.6
180°	1089.3	1089.3	1089.3	1089.3	1089.3	1089.3	1089.3	1089.3	1089.3

(END OF REPORT)