

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: P199533

Luminaire Tested: **S125-DIP-U1-LO-35-X-X0048-1D-UDD-1-5-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199533
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-LO-35-X-X0048-1D-UDD-1-5-W
Description: DEFINE 5-INCH DIRECT/INDIRECT PENDANT LED LUMINAIRE
UPLIGHT LL1-3500K, SATIN WHITE DIFFUSER
DOWNLIGHT LLO-3500K, SATIN WHITE DIFFUSER
Light Source: -
757G
Ballast/Driver: ELECTRONIC DRIVERS

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4450.0 lumens
Efficiency: N/A
Efficacy: 114.7 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: Semi-Indirect

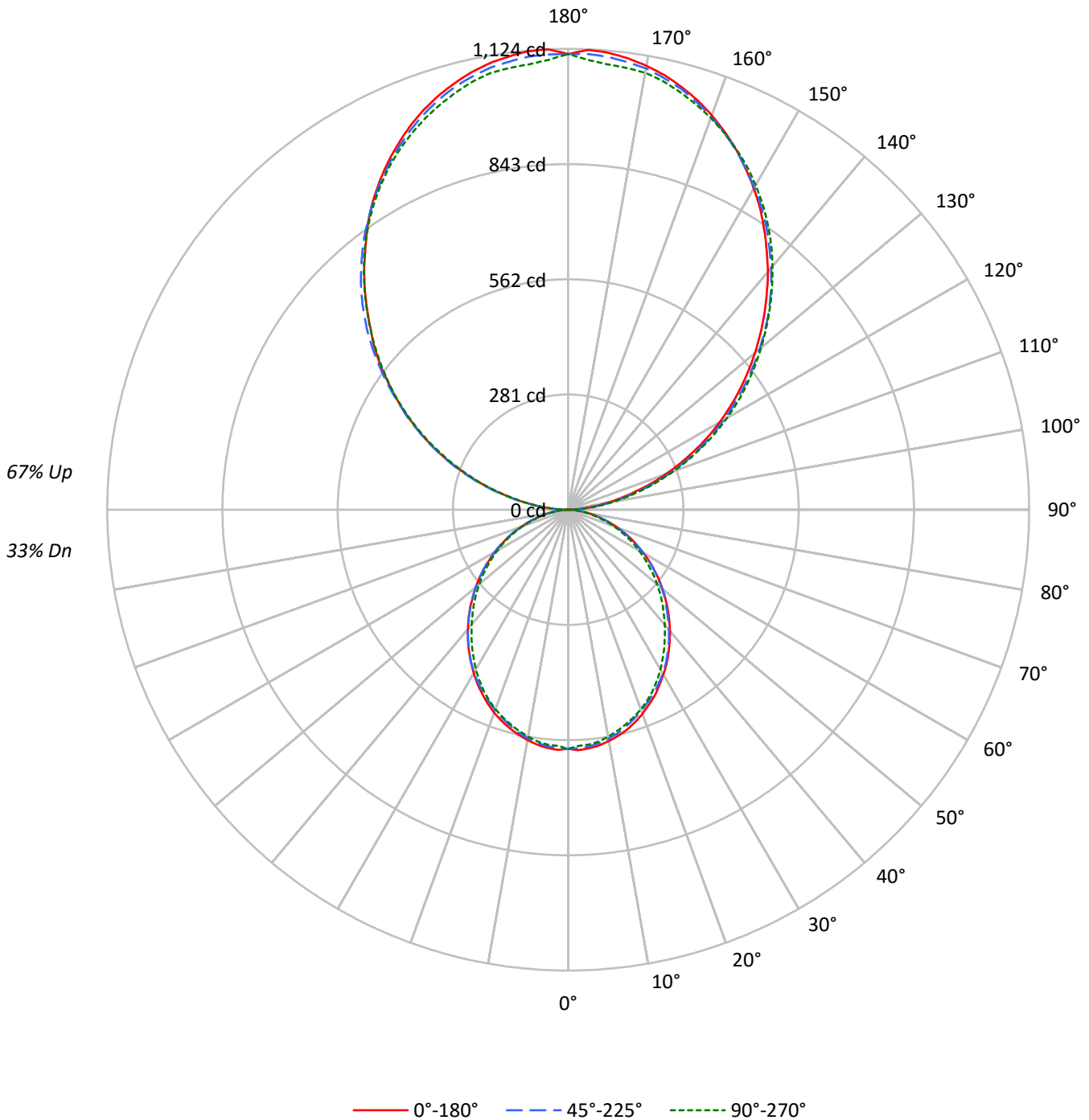
Input Watts (W): 38.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	62	60	50	48	47	36	35	34	28
2	86	78	72	67	77	71	66	62	57	53	50	44	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	46	42	38	36	33	28	26	24	20
4	71	61	53	47	64	55	49	43	44	40	36	34	31	28	25	23	21	17
5	65	54	46	40	59	49	42	37	40	35	31	31	27	25	22	20	18	15
6	60	48	41	35	54	44	37	32	36	31	27	28	24	21	20	18	16	13
7	56	44	36	31	50	40	33	28	32	27	23	25	22	19	19	16	14	12
8	51	40	32	27	46	36	29	25	29	24	21	23	19	17	17	15	13	10
9	48	36	29	24	43	33	26	22	27	22	19	21	18	15	16	13	12	9
10	45	33	26	21	40	30	24	20	25	20	17	19	16	14	15	12	11	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	3690	3690	3690
5°	3680	3387	3674
10°	3621	3116	3608
15°	3548	2861	3525
20°	3450	2628	3434
25°	3347	2396	3318
30°	3219	2165	3194
35°	3095	1934	3059
40°	2958	1723	2918
45°	2813	1529	2772
50°	2660	1344	2609
55°	2495	1163	2436
60°	2319	985	2255
65°	2125	813	2049
70°	1898	631	1808
75°	1591	448	1482
80°	1205	279	1102
85°	719	122	630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	1.2
10°-20°	153.9	3.5
20°-30°	226.2	5.1
30°-40°	261.2	5.9
40°-50°	258.9	5.8
50°-60°	224.6	5.0
60°-70°	164.0	3.7
70°-80°	89.6	2.0
80°-90°	23.3	0.5
90°-100°	55.0	1.2
100°-110°	199.0	4.5
110°-120°	354.1	8.0
120°-130°	472.2	10.6
130°-140°	534.2	12.0
140°-150°	527.7	11.9
150°-160°	446.9	10.0
160°-170°	299.2	6.7
170°-180°	105.0	2.4
0°-30°	434.9	9.8
0°-40°	696.2	15.6
0°-60°	1179.6	26.5
0°-90°	1456.6	32.7
90°-120°	608.1	13.7
90°-150°	2142.2	48.1
90°-180°	2993.0	67.3
0°-180°	4450.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	583	583	583	583	583	
5°	584	580	575	579	583	55
15°	555	547	542	545	551	156
25°	500	493	487	491	496	230
35°	426	423	408	422	422	267
45°	343	339	325	337	338	265
55°	256	256	241	251	250	229
65°	170	168	159	164	164	168
75°	87	87	80	82	81	93
85°	20	21	19	19	18	23
90°	1	1	1	1	1	3
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	583.2	583.2	583.2	583.2	583.2	583.2	583.2	583.2	583.2
2.5°	587.1	581.0	582.5	581.4	576.4	580.7	582.1	580.0	586.4
5°	584.2	578.2	579.6	578.2	575.3	577.5	578.9	576.7	583.2
7.5°	580.0	573.5	574.6	573.2	570.3	572.1	573.9	571.8	578.2
10°	572.8	566.8	567.1	565.3	562.1	564.3	566.0	564.3	570.7
12.5°	564.6	558.2	558.2	555.3	552.5	554.3	556.8	555.3	561.8
15°	555.0	548.2	547.1	545.3	542.1	544.3	545.3	545.0	551.4
17.5°	543.2	536.1	534.6	534.3	530.4	533.2	533.6	532.5	540.3
20°	529.6	522.9	521.8	521.4	518.2	520.4	520.4	518.9	527.1
22.5°	514.6	508.2	507.9	507.2	503.6	506.1	506.1	503.9	512.2
25°	500.0	492.2	493.2	491.5	487.2	490.7	491.1	487.5	495.7
27.5°	481.8	475.7	477.9	474.7	469.0	473.6	475.7	470.4	479.0
30°	464.0	457.5	461.1	455.4	450.4	454.7	458.6	451.8	460.4
32.5°	446.5	439.0	443.3	436.1	429.0	434.3	440.8	434.3	441.1
35°	426.5	420.4	422.9	415.4	408.3	413.6	421.5	415.4	421.5
37.5°	406.5	401.5	403.3	394.4	387.2	392.6	400.8	396.2	401.5
40°	385.8	382.2	382.2	373.3	366.2	371.2	379.7	377.2	380.5
42.5°	364.4	363.0	360.1	352.3	345.5	350.5	358.7	358.0	359.4
45°	343.3	343.3	338.7	330.5	324.8	329.4	336.9	338.7	338.3
47.5°	321.6	323.4	319.4	310.5	304.1	308.7	315.5	318.7	315.1
50°	299.8	303.0	298.0	290.2	283.0	288.0	293.7	298.0	294.1
52.5°	278.0	282.0	276.6	269.1	262.0	266.6	272.3	277.3	272.3
55°	255.9	260.5	255.5	247.7	240.9	245.2	250.9	255.9	249.8
57.5°	234.1	238.4	234.1	226.3	219.9	223.8	229.8	233.8	228.4
60°	212.4	217.0	212.7	205.2	199.2	202.4	208.1	212.0	206.6
62.5°	190.9	194.9	190.2	184.2	179.5	180.9	186.3	190.9	185.2
65°	169.9	173.5	168.5	163.1	159.2	159.9	164.5	167.0	163.8
67.5°	149.2	153.1	147.8	142.8	138.1	139.5	143.5	147.0	143.1
70°	128.5	132.4	126.7	122.4	118.5	119.2	122.4	126.3	122.4
72.5°	108.1	111.4	107.4	102.4	99.6	100.3	102.1	105.6	101.7
75°	87.4	91.0	86.7	82.8	79.9	80.7	81.7	84.6	81.4
77.5°	68.2	70.7	67.8	64.6	62.8	63.2	63.5	65.7	62.8
80°	50.3	52.5	50.7	48.2	46.8	46.8	46.8	48.5	46.0
82.5°	34.3	36.4	35.0	33.2	32.1	31.1	31.8	33.2	31.1
85°	20.3	22.1	21.4	19.6	18.9	18.2	18.9	19.6	17.8
87.5°	9.3	10.7	9.6	7.9	7.1	6.4	6.4	7.5	6.1
90°	0.7	1.8	1.4	1.1	0.7	0.7	1.1	1.4	0.7
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)