

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: P199521

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199521
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-U1-1-35-X-X0048-1D-UDD-1-5-W
Description: DEFINE 5-INCH DIRECT/INDIRECT PENDANT LED LUMINAIRE
UPLIGHT LL1-3500K, SATIN WHITE DIFFUSER
DOWNLIGHT LL1-3500K, SATIN WHITE DIFFUSER
Light Source: -
757G
Ballast/Driver: ELECTRONIC DRIVERS

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5828.3 lumens
Efficiency: N/A
Efficacy: 112.1 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

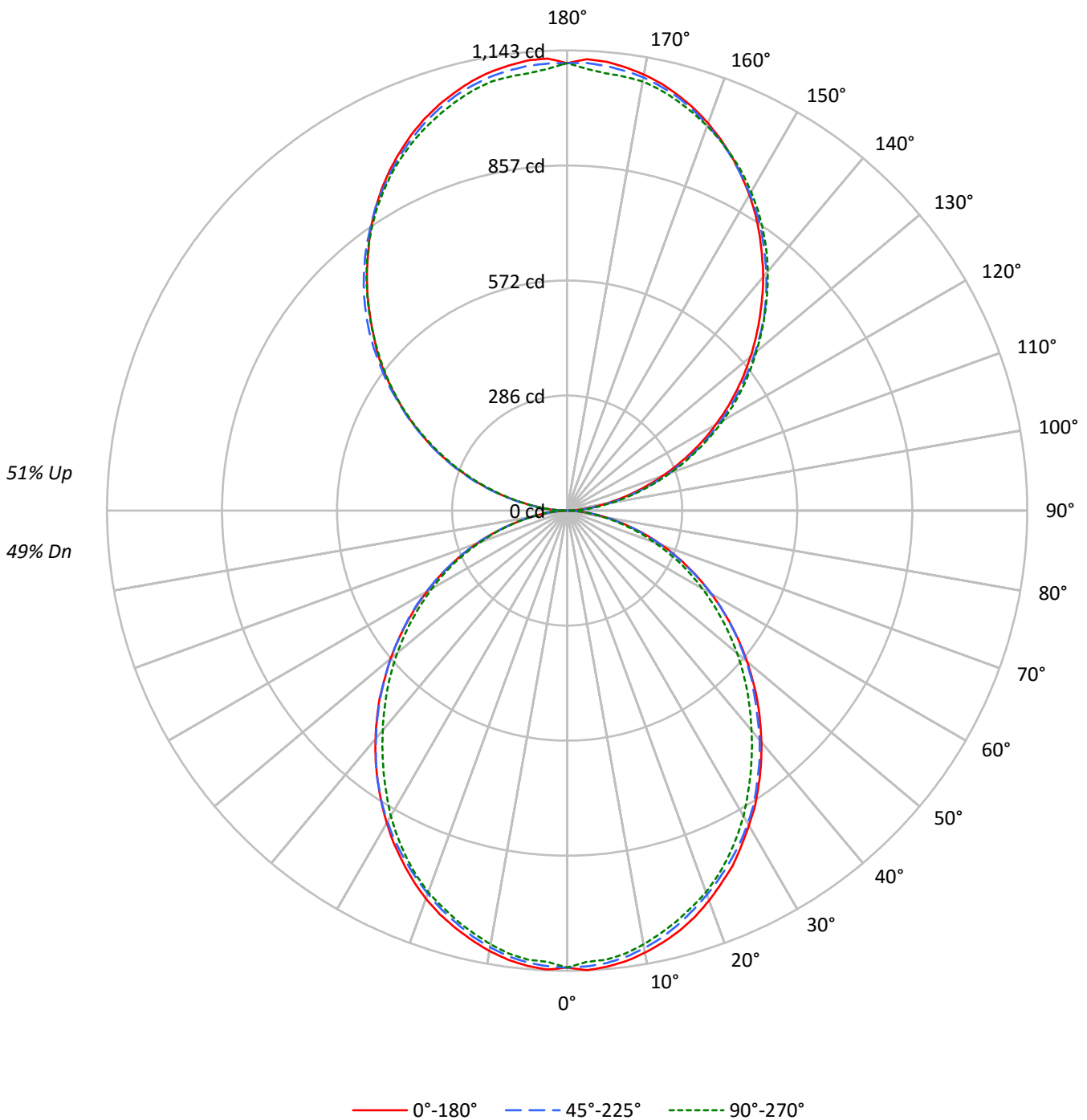
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	93	89	86	90	86	83	80	73	70	68	60	58	57	49	48	46	41
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35
3	81	72	64	59	74	66	60	55	56	51	47	47	43	40	38	36	33	29
4	74	63	56	50	68	59	52	47	50	45	40	42	38	35	34	31	29	25
5	68	57	48	43	62	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	30	36	31	27	31	26	23	25	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	31	25	46	35	29	24	31	25	21	26	22	19	22	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	7180	7180	7180
5°	7163	6591	7150
10°	7047	6065	7021
15°	6904	5567	6860
20°	6715	5114	6683
25°	6514	4662	6458
30°	6264	4214	6216
35°	6023	3765	5953
40°	5757	3353	5677
45°	5476	2977	5395
50°	5176	2616	5077
55°	4856	2263	4741
60°	4512	1917	4391
65°	4135	1583	3987
70°	3693	1228	3518
75°	3098	873	2884
80°	2345	543	2146
85°	1402	237	1229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	1.8
10°-20°	299.6	5.1
20°-30°	440.2	7.6
30°-40°	508.4	8.7
40°-50°	503.9	8.6
50°-60°	437.0	7.5
60°-70°	319.2	5.5
70°-80°	174.4	3.0
80°-90°	45.3	0.8
90°-100°	55.2	0.9
100°-110°	199.0	3.4
110°-120°	354.1	6.1
120°-130°	472.2	8.1
130°-140°	534.2	9.2
140°-150°	527.7	9.1
150°-160°	446.9	7.7
160°-170°	299.2	5.1
170°-180°	105.0	1.8
0°-30°	846.5	14.5
0°-40°	1354.8	23.2
0°-60°	2295.7	39.4
0°-90°	2834.8	48.6
90°-120°	608.3	10.4
90°-150°	2142.4	36.8
90°-180°	2994.0	51.4
0°-180°	5828.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1135	1135	1135	1135	1135	
5°	1137	1128	1120	1127	1135	108
15°	1080	1065	1055	1061	1073	304
25°	973	960	948	956	965	447
35°	830	823	795	820	820	519
45°	668	659	632	656	658	515
55°	498	497	469	488	486	446
65°	331	328	310	320	319	328
75°	170	169	156	159	158	181
85°	40	42	37	37	35	45
90°	1	3	1	2	1	5
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: P199521

CATALOG NUMBER: S125-DIP-U1-1-35-X-X0048-1D-UDD-1-5-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1134.9	1134.9	1134.9	1134.9	1134.9	1134.9	1134.9	1134.9	1134.9
2.5°	1142.6	1130.8	1133.5	1131.4	1121.7	1130.1	1132.8	1128.7	1141.2
5°	1137.0	1125.2	1128.0	1125.2	1119.6	1123.8	1126.6	1122.4	1134.9
7.5°	1128.7	1116.2	1118.3	1115.5	1109.9	1113.4	1116.9	1112.7	1125.2
10°	1114.8	1103.0	1103.7	1100.2	1093.9	1098.1	1101.6	1098.1	1110.6
12.5°	1098.8	1086.3	1086.3	1080.7	1075.2	1078.7	1083.5	1080.7	1093.2
15°	1080.0	1066.9	1064.8	1061.3	1055.0	1059.2	1061.3	1060.6	1073.1
17.5°	1057.1	1043.2	1040.5	1039.8	1032.1	1037.7	1038.4	1036.3	1051.6
20°	1030.7	1017.5	1015.5	1014.8	1008.5	1012.7	1012.7	1009.9	1025.9
22.5°	1001.6	989.1	988.4	987.0	980.0	984.9	984.9	980.7	996.7
25°	973.1	957.8	959.9	956.4	948.1	955.0	955.7	948.8	964.8
27.5°	937.7	925.9	930.0	923.8	912.7	921.7	925.9	915.4	932.1
30°	902.9	890.4	897.4	886.3	876.5	884.9	892.5	879.3	896.0
32.5°	868.9	854.3	862.7	848.8	834.9	845.3	857.8	845.3	858.5
35°	830.0	818.2	823.1	808.5	794.6	805.0	820.3	808.5	820.3
37.5°	791.1	781.4	784.9	767.5	753.6	764.0	780.0	771.0	781.4
40°	750.8	743.9	743.9	726.5	712.6	722.3	739.0	734.2	740.4
42.5°	709.2	706.4	700.8	685.5	672.3	682.1	698.0	696.6	699.4
45°	668.2	668.2	659.1	643.2	632.1	641.1	655.7	659.1	658.4
47.5°	625.8	629.3	621.6	604.3	591.8	600.8	614.0	620.2	613.3
50°	583.4	589.7	580.0	564.7	550.8	560.5	571.6	580.0	572.3
52.5°	541.1	548.7	538.3	523.7	509.8	518.8	530.0	539.7	530.0
55°	498.0	507.0	497.3	482.0	468.8	477.2	488.3	498.0	486.2
57.5°	455.6	464.0	455.6	440.4	427.9	435.5	447.3	454.9	444.5
60°	413.3	422.3	414.0	399.4	387.6	393.8	404.9	412.6	402.2
62.5°	371.6	379.2	370.2	358.4	349.4	352.1	362.6	371.6	360.5
65°	330.6	337.6	327.8	317.4	309.8	311.2	320.2	325.1	318.8
67.5°	290.3	298.0	287.6	277.8	268.8	271.6	279.2	286.2	278.5
70°	250.0	257.7	246.6	238.2	230.6	232.0	238.2	245.9	238.2
72.5°	210.5	216.7	209.1	199.3	193.8	195.2	198.6	205.6	198.0
75°	170.2	177.1	168.8	161.1	155.6	157.0	159.1	164.6	158.4
77.5°	132.7	137.5	132.0	125.7	122.2	122.9	123.6	127.8	122.2
80°	97.9	102.1	98.6	93.8	91.0	91.0	91.0	94.5	89.6
82.5°	66.7	70.8	68.1	64.6	62.5	60.4	61.8	64.6	60.4
85°	39.6	43.1	41.7	38.2	36.8	35.4	36.8	38.2	34.7
87.5°	18.1	20.8	18.8	15.3	13.9	12.5	12.5	14.6	11.8
90°	1.4	3.5	2.8	2.1	1.4	1.4	2.1	2.8	1.4
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)