

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: P199558

Luminaire Tested: **S125-DIP-ULO-1-35-X-X0048-1D-UDD-1-NA-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199558
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P27900 P27899)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125-DIP-ULO-1-35-X-X0048-1D-UDD-1-NA-W
Description: DEFINE 5-INCH DIRECT/INDIRECT PENDANT LED LUMINAIRE
UPLIGHT LLO-3500K, NO LENS
DOWNLIGHT LL1-3500K, SATIN WHITE DIFFUSER
Light Source: -
757G
Ballast/Driver: ELECTRONIC DRIVERS

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4651.6 lumens
Efficiency: N/A
Efficacy: 116.0 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-Direct

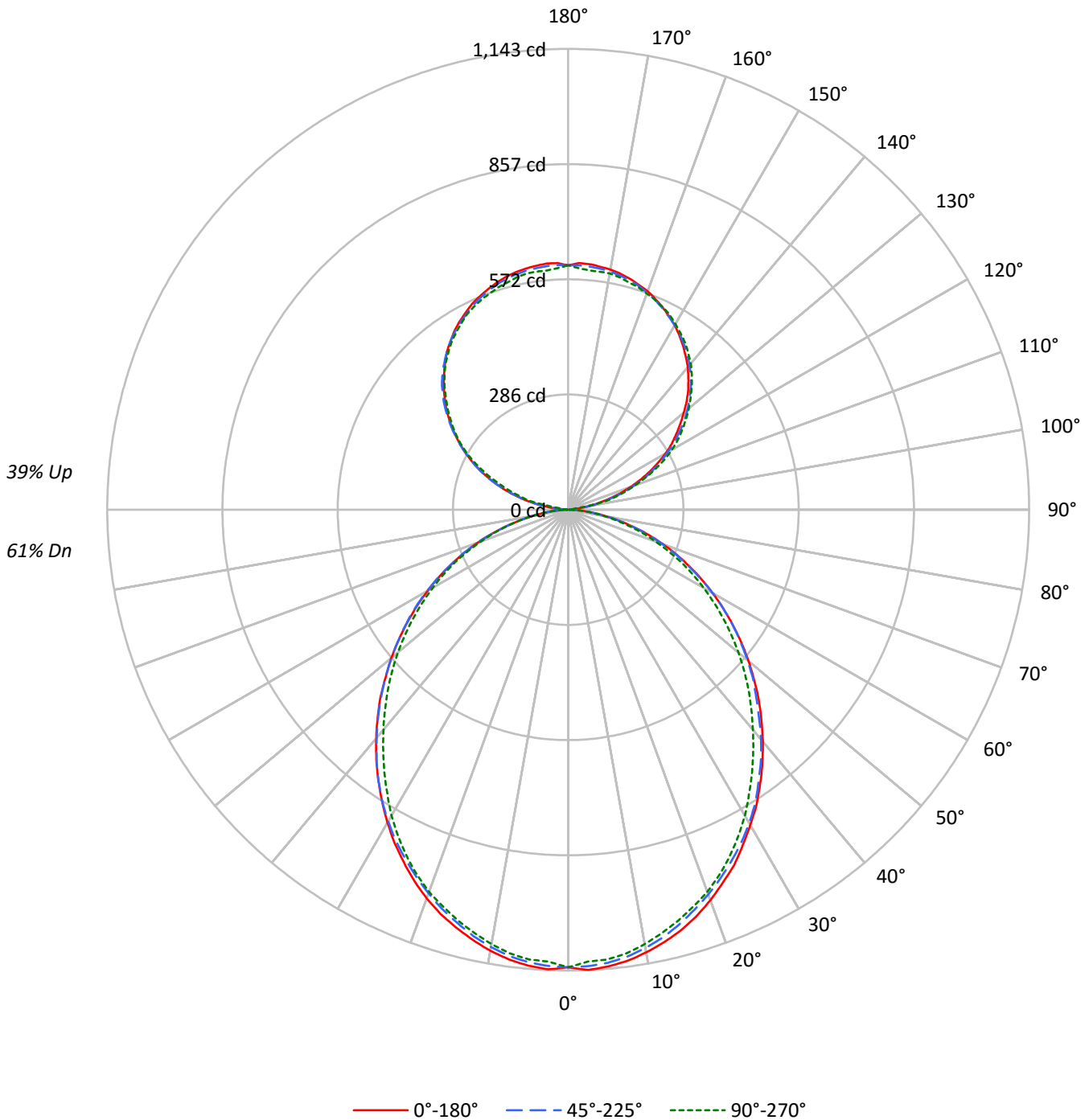
Input Watts (W): 40.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	100	96	92	89	94	90	87	83	79	76	74	68	66	65	59	57	56	52
2	91	84	78	72	85	79	73	69	69	65	61	60	57	54	52	49	47	43
3	83	74	66	60	78	69	63	57	61	56	52	53	49	46	46	43	40	37
4	76	65	57	51	71	62	54	49	54	49	44	47	43	39	41	38	35	32
5	70	58	50	44	65	55	48	42	49	43	38	43	38	34	37	33	30	27
6	65	52	44	38	60	50	42	37	44	38	33	39	34	30	34	30	27	24
7	60	47	39	34	56	45	37	32	40	34	29	35	30	27	31	27	24	21
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19
9	52	40	32	27	49	37	30	26	33	28	24	30	25	21	26	22	19	17
10	49	36	29	24	45	34	28	23	31	25	21	27	23	19	24	20	18	16

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	2.3
10°-20°	299.6	6.4
20°-30°	440.2	9.5
30°-40°	508.4	10.9
40°-50°	503.9	10.8
50°-60°	437.0	9.4
60°-70°	319.2	6.9
70°-80°	174.4	3.8
80°-90°	45.3	1.0
90°-100°	19.4	0.4
100°-110°	128.7	2.8
110°-120°	236.1	5.1
120°-130°	306.1	6.6
130°-140°	332.6	7.2
140°-150°	314.4	6.8
150°-160°	255.7	5.5
160°-170°	166.3	3.6
170°-180°	57.5	1.2
0°-30°	846.5	18.2
0°-40°	1354.8	29.1
0°-60°	2295.7	49.4
0°-90°	2834.8	60.9
90°-120°	384.2	8.3
90°-150°	1337.3	28.7
90°-180°	1817.0	39.1
0°-180°	4651.6	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	3
95°	13	4	4	6	30	19
105°	106	112	120	132	135	112
115°	222	232	238	250	249	219
125°	327	337	345	352	350	293
135°	421	430	434	443	436	324
145°	496	501	505	509	509	311
155°	554	552	555	559	564	255
165°	593	589	584	593	598	167
175°	611	605	596	606	613	58
180°	606	606	606	606	606	



TEST NUMBER: P199558

CATALOG NUMBER: S125-DIP-ULO-1-35-X-X0048-1D-UDD-1-NA-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°	1.8	2.5	2.5	2.9	2.9	3.2	3.6	4.3	12.1
95°	12.8	14.3	3.9	4.3	4.3	4.6	6.1	34.6	29.6
97.5°	29.6	37.8	12.5	7.5	6.8	10.0	38.5	55.0	52.1
100°	52.8	58.9	59.6	38.9	26.4	54.6	76.0	82.1	78.2
102.5°	78.2	84.9	83.2	90.3	92.8	100.6	102.4	110.3	107.1
105°	105.6	113.1	112.1	119.2	119.9	128.8	132.4	137.0	135.3
107.5°	134.6	139.9	142.8	147.4	147.0	156.7	163.8	166.0	164.2
110°	164.2	167.7	173.1	176.3	176.3	185.9	194.2	194.5	192.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	192.4	198.4	203.4	207.4	206.6	217.0	222.7	223.8	221.6
115°	222.3	224.8	231.6	237.3	238.4	246.3	250.2	251.3	249.1
117.5°	249.8	253.8	258.0	264.8	268.4	273.4	276.2	278.0	275.9
120°	279.1	281.6	284.1	290.5	296.9	299.8	301.9	303.4	301.6
122.5°	304.4	306.2	311.6	315.9	322.3	324.4	327.6	327.3	325.8
125°	326.9	329.4	337.3	339.8	345.1	348.0	351.9	349.8	349.8
127.5°	350.5	352.6	362.6	363.0	368.0	371.2	376.2	372.6	373.0
130°	373.7	377.2	386.2	386.2	390.1	393.7	399.4	394.0	395.4
132.5°	398.3	399.4	407.6	407.9	411.5	415.1	421.9	414.7	416.1
135°	420.8	419.7	430.4	428.6	433.6	435.8	442.6	434.0	436.5
137.5°	441.1	438.6	450.1	448.3	453.6	454.0	461.1	452.9	455.8
140°	461.1	458.3	467.9	466.8	472.9	472.2	477.5	470.8	474.7
142.5°	479.0	475.7	485.0	484.7	489.3	489.3	493.9	488.2	493.9
145°	496.4	492.2	500.7	500.4	505.4	505.0	509.3	503.9	509.3
147.5°	512.9	508.6	515.4	514.6	518.9	519.3	522.9	519.6	525.4
150°	527.9	523.9	528.2	527.9	531.8	532.1	535.7	534.3	538.6
152.5°	541.4	537.8	540.0	539.3	545.0	542.8	547.1	546.4	551.1
155°	553.9	550.3	552.1	550.7	554.6	554.3	558.9	558.2	563.5
157.5°	565.3	561.4	562.8	560.7	563.5	563.5	568.9	568.9	572.8
160°	576.4	571.0	572.8	569.3	570.3	571.8	578.2	578.2	581.7
162.5°	584.2	580.7	581.7	576.7	577.8	578.5	586.0	586.0	590.3
165°	592.8	588.2	589.2	583.2	583.5	585.3	592.8	593.2	597.8
167.5°	599.6	595.0	594.6	588.5	590.3	590.7	597.8	598.2	603.2
170°	604.9	599.9	599.9	593.5	595.0	594.2	601.7	602.8	607.1
172.5°	607.8	604.2	603.2	596.0	595.7	596.7	604.6	606.0	610.3
175°	611.4	607.1	605.3	598.5	595.7	599.2	606.4	607.8	612.8
177.5°	612.4	608.2	606.7	599.6	599.6	600.3	607.4	608.5	612.4
180°	606.0	606.0	606.0	606.0	606.0	606.0	606.0	606.0	606.0

(END OF REPORT)