

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: METALUX

Report Number: P393340

Luminaire Tested: **22EN-LD2-34-UNV-L93050-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393340
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-34-UNV-L93050-W2A-1-U (3500K)
Description: 2X2 ENCOUNTER, 3400 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2883.7 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

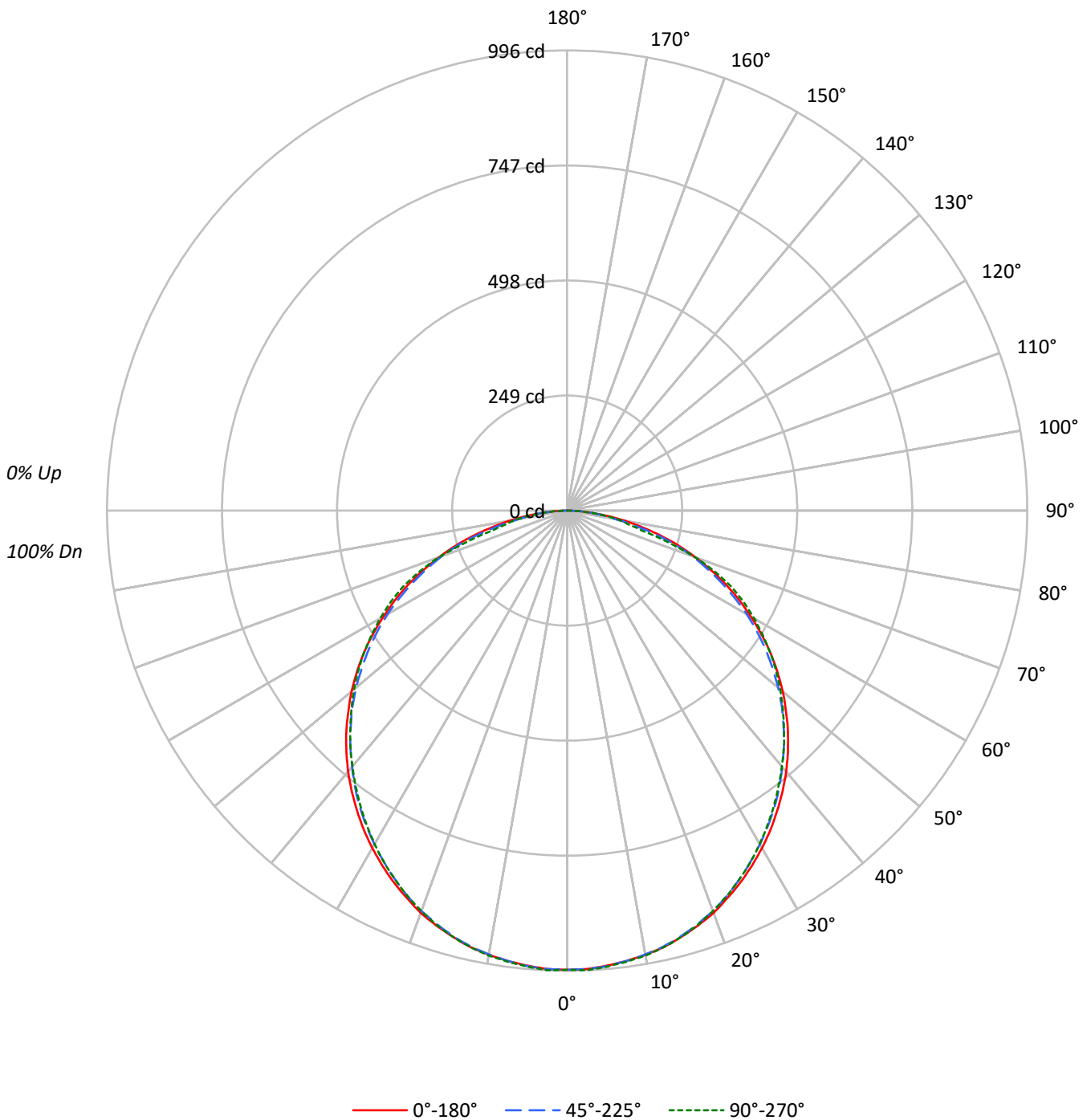
Input Watts (W): 25.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	46	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2675	2675	2675
5°	2671	2674	2676
10°	2668	2666	2672
15°	2661	2657	2661
20°	2654	2642	2642
25°	2637	2617	2617
30°	2621	2592	2590
35°	2605	2572	2564
40°	2591	2543	2540
45°	2573	2522	2525
50°	2552	2496	2521
55°	2521	2462	2517
60°	2471	2417	2517
65°	2415	2345	2506
70°	2323	2269	2323
75°	2177	2054	1757
80°	1954	1643	1759
85°	1454	1479	1454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.0	3.3
10°-20°	269.2	9.3
20°-30°	406.9	14.1
30°-40°	490.7	17.0
40°-50°	514.0	17.8
50°-60°	473.9	16.4
60°-70°	372.0	12.9
70°-80°	207.5	7.2
80°-90°	55.5	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	770.1	26.7
0°-40°	1260.9	43.7
0°-60°	2248.7	78.0
0°-90°	2883.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2883.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	994	994	994	994	994	
5°	989	988	990	990	991	94
15°	955	954	954	954	955	270
25°	888	885	881	880	881	409
35°	793	790	783	779	780	496
45°	676	671	663	660	664	521
55°	537	532	525	528	536	480
65°	379	373	368	381	394	374
75°	209	205	198	177	169	221
85°	47	45	48	46	47	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	994.0	994.0	994.0	994.0	994.0
2.5°	993.1	992.3	993.1	994.0	995.7
5°	988.9	988.1	989.8	989.8	990.6
7.5°	983.0	982.2	983.0	983.9	984.7
10°	976.3	975.5	975.5	976.3	978.0
12.5°	967.9	966.2	966.2	966.2	967.9
15°	955.3	953.6	953.6	953.6	955.3
17.5°	941.8	940.2	938.5	938.5	940.2
20°	926.7	924.2	922.5	921.7	922.5
22.5°	907.4	905.7	903.2	901.5	903.2
25°	888.0	884.7	881.3	880.5	881.3
27.5°	866.2	862.8	858.6	856.9	858.6
30°	843.5	839.2	834.2	831.7	833.4
32.5°	819.1	815.7	809.0	806.4	807.3
35°	793.0	789.6	782.9	778.7	780.4
37.5°	766.1	761.9	754.3	750.1	751.8
40°	737.5	732.4	724.0	720.7	723.2
42.5°	707.2	703.0	694.6	691.2	694.6
45°	676.1	671.1	662.7	660.1	663.5
47.5°	642.5	639.1	630.7	629.9	633.2
50°	609.7	603.8	596.2	597.1	602.1
52.5°	573.5	568.5	560.1	563.4	570.1
55°	537.4	531.5	524.7	528.1	536.5
57.5°	498.7	494.5	486.9	491.9	502.0
60°	459.1	455.8	449.1	457.5	467.6
62.5°	420.5	414.6	408.7	419.6	431.4
65°	379.3	373.4	368.3	380.9	393.6
67.5°	336.4	332.2	328.0	338.1	346.5
70°	295.2	291.0	288.4	290.1	295.2
72.5°	253.1	248.9	246.4	237.1	231.3
75°	209.4	205.2	197.6	177.4	169.0
77.5°	166.5	164.0	148.8	131.2	133.7
80°	126.1	121.9	106.0	109.3	113.5
82.5°	85.8	81.6	79.9	77.4	78.2
85°	47.1	45.4	47.9	46.3	47.1
87.5°	18.5	19.3	21.0	20.2	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)