

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: P392798

Luminaire Tested: **12EN-LD2-17-UNV-L93050-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-35)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12EN-LD2-17-UNV-L93050-W2A-1-U (4500K)
Description: 1X2 ENCOUNTER, 1700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1637.1 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.4
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

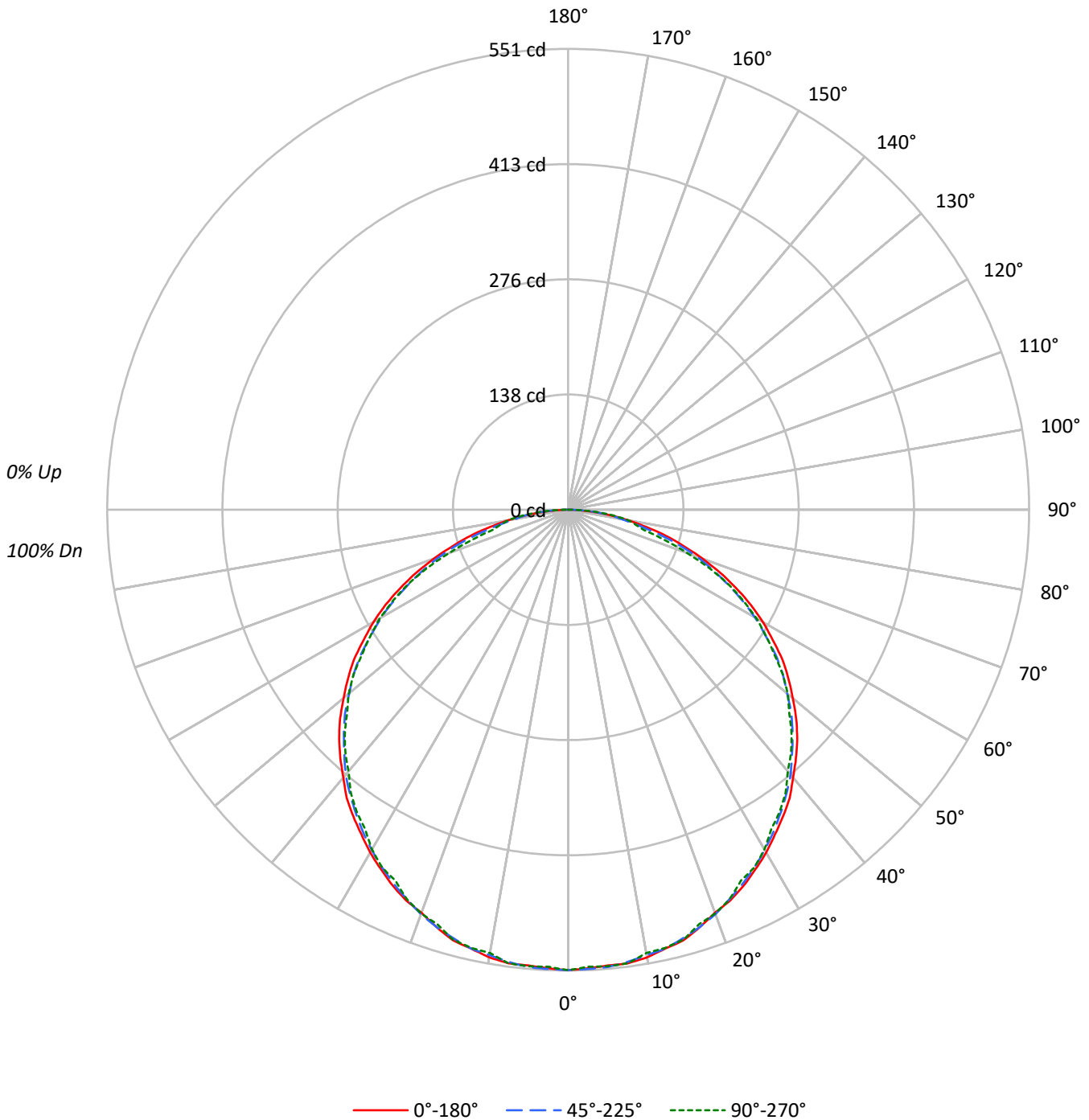
Input Watts (W): 15.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	36	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2963	2963	2963
5°	2955	2965	2960
10°	2970	2956	2942
15°	2970	2955	2965
20°	2937	2947	2942
25°	2946	2931	2904
30°	2941	2920	2914
35°	2942	2908	2896
40°	2937	2906	2869
45°	2947	2887	2874
50°	2934	2860	2868
55°	2933	2842	2818
60°	2892	2779	2798
65°	2818	2673	2695
70°	2680	2570	2376
75°	2520	2300	1936
80°	2259	1987	2259
85°	1735	2062	2223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	3.2
10°-20°	149.7	9.1
20°-30°	227.6	13.9
30°-40°	277.4	16.9
40°-50°	293.6	17.9
50°-60°	271.7	16.6
60°-70°	210.8	12.9
70°-80°	117.7	7.2
80°-90°	36.5	2.2
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°	429.3	26.2
0°-40°	706.7	43.2
0°-60°	1272.1	77.7
0°-90°	1637.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1637.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	551	551	551	551	551	
5°	547	548	549	545	548	52
15°	533	531	530	530	532	150
25°	496	494	494	494	489	229
35°	448	447	443	439	441	280
45°	387	385	379	377	378	298
55°	313	309	303	300	300	278
65°	221	219	210	212	212	219
75°	121	118	111	99	93	127
85°	28	29	33	35	36	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	550.6	550.6	550.6	550.6	550.6
2.5°	548.8	548.8	549.7	552.3	547.0
5°	547.0	547.9	548.8	545.3	547.9
7.5°	547.0	545.3	545.3	545.3	547.0
10°	543.5	539.1	540.9	542.7	538.3
12.5°	537.4	537.4	537.4	533.9	536.5
15°	533.0	531.2	530.4	530.4	532.1
17.5°	523.3	521.6	523.3	523.3	519.8
20°	512.8	515.4	514.6	511.9	513.7
22.5°	505.8	505.8	504.0	503.1	504.0
25°	496.1	493.5	493.5	493.5	489.1
27.5°	484.7	483.8	482.1	478.6	482.1
30°	473.3	471.5	469.8	468.0	468.9
32.5°	460.1	458.4	456.6	456.6	452.2
35°	447.8	446.9	442.6	439.0	440.8
37.5°	434.7	431.1	428.5	425.9	426.7
40°	418.0	416.2	413.6	410.9	408.3
42.5°	403.0	402.2	396.0	393.4	394.3
45°	387.2	384.6	379.3	376.7	377.6
47.5°	369.7	367.0	361.8	360.0	358.3
50°	350.4	349.5	341.6	338.9	342.5
52.5°	331.9	329.3	323.1	320.5	323.1
55°	312.6	309.1	302.9	300.3	300.3
57.5°	289.8	288.0	279.2	277.5	280.1
60°	268.7	265.2	258.2	256.4	259.9
62.5°	245.9	242.4	234.4	235.3	236.2
65°	221.3	218.6	209.9	211.6	211.6
67.5°	196.7	193.2	186.2	183.5	182.6
70°	170.3	167.7	163.3	154.5	151.0
72.5°	144.9	143.1	137.9	123.8	121.2
75°	121.2	118.5	110.6	99.2	93.1
77.5°	95.7	95.7	84.3	80.8	82.5
80°	72.9	72.0	64.1	70.2	72.9
82.5°	50.1	48.3	51.8	54.4	55.3
85°	28.1	29.0	33.4	35.1	36.0
87.5°	11.4	14.0	14.9	16.7	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)