

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: P392859

Luminaire Tested: **12EN-LD2-27-UNV-L93050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-37)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12EN-LD2-27-UNV-L93050-W2A-1-U (3000K)
Description: 1X2 ENCOUNTER, 2700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2258.6 lumens
Efficiency: N/A
Efficacy: 96.5 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

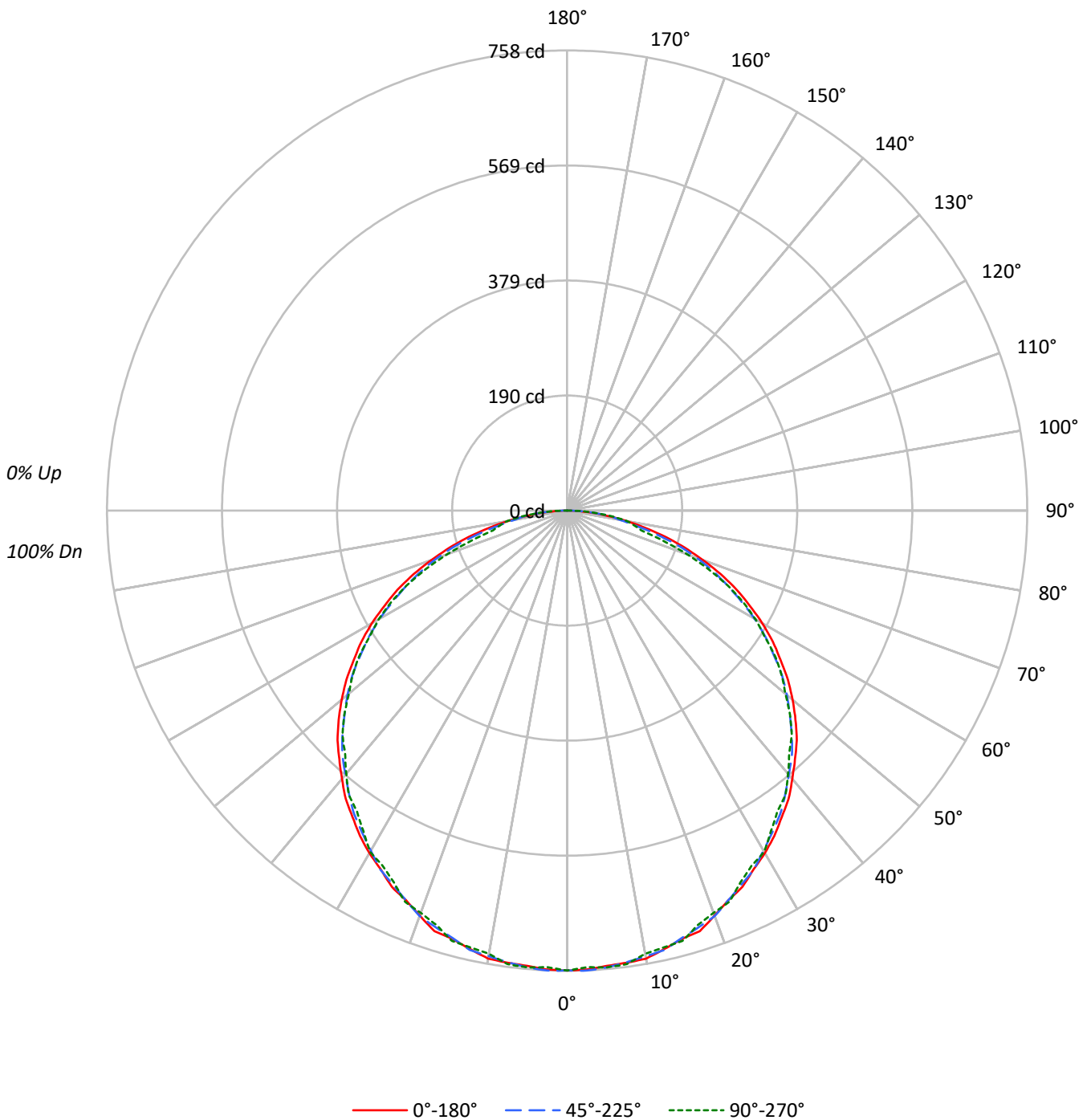
Input Watts (W): 23.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	89	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	41	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	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4077	4077	4077
5°	4066	4080	4080
10°	4095	4073	4051
15°	4070	4061	4089
20°	4066	4071	4038
25°	4060	4036	4011
30°	4049	4019	4034
35°	4049	4017	3968
40°	4053	3989	3978
45°	4072	3984	3984
50°	4059	3956	3929
55°	4024	3902	3925
60°	3998	3838	3857
65°	3925	3705	3715
70°	3737	3569	3297
75°	3485	3177	2630
80°	3081	2724	3109
85°	2433	2890	2995



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	3.2
10°-20°	206.2	9.1
20°-30°	313.7	13.9
30°-40°	382.3	16.9
40°-50°	405.1	17.9
50°-60°	375.1	16.6
60°-70°	291.5	12.9
70°-80°	162.7	7.2
80°-90°	50.3	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°	591.6	26.2
0°-40°	973.8	43.1
0°-60°	1754.0	77.7
0°-90°	2258.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2258.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	758	758	758	758	758	
5°	753	755	755	755	755	72
15°	730	730	729	728	734	207
25°	684	682	680	679	676	314
35°	616	614	611	608	604	386
45°	535	530	523	518	523	412
55°	429	427	416	413	418	384
65°	308	302	291	292	292	303
75°	168	164	153	137	126	177
85°	39	40	47	48	48	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	757.6	757.6	757.6	757.6	757.6
2.5°	756.8	756.0	758.5	756.8	752.7
5°	752.7	755.2	755.2	755.2	755.2
7.5°	751.1	749.4	750.3	751.1	753.5
10°	749.4	744.5	745.3	744.5	741.2
12.5°	739.6	739.6	741.2	739.6	737.1
15°	730.5	729.7	728.9	728.1	733.8
17.5°	726.4	719.8	719.8	720.7	715.7
20°	710.0	710.0	710.8	708.3	705.1
22.5°	694.4	696.8	694.4	691.1	697.7
25°	683.7	682.0	679.6	678.8	675.5
27.5°	665.6	667.3	666.4	663.1	659.0
30°	651.6	650.0	646.7	642.6	649.2
32.5°	635.2	632.7	628.6	626.2	625.3
35°	616.3	613.8	611.4	608.1	604.0
37.5°	599.1	594.9	590.0	585.1	590.8
40°	576.9	575.2	567.8	564.5	566.2
42.5°	555.5	553.9	548.1	544.0	541.5
45°	535.0	530.0	523.4	518.5	523.4
47.5°	510.3	507.0	497.2	495.5	498.0
50°	484.8	480.7	472.5	470.0	469.2
52.5°	458.5	455.2	446.2	441.3	445.4
55°	428.9	427.3	415.8	413.3	418.3
57.5°	401.8	396.9	387.0	384.6	385.4
60°	371.4	367.3	356.6	353.3	358.3
62.5°	338.6	334.4	322.9	322.1	327.1
65°	308.2	301.6	290.9	291.7	291.7
67.5°	273.6	268.7	259.7	255.6	251.5
70°	237.5	234.2	226.8	213.7	209.5
72.5°	203.0	198.9	192.3	170.1	166.0
75°	167.6	163.5	152.8	137.2	126.5
77.5°	132.3	131.5	116.7	110.9	113.4
80°	99.4	98.6	87.9	97.0	100.3
82.5°	67.4	65.7	71.5	76.4	75.6
85°	39.4	40.3	46.8	48.5	48.5
87.5°	15.6	18.1	21.4	23.8	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)