

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: P392784

Luminaire Tested: **12EN-LD2-17-UNV-L83050-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392784
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-L83050-W2A-1-U (5700K)
Description: 1X2 ENCOUNTER, 1700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1899.5 lumens
Efficiency: N/A
Efficacy: 123.3 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

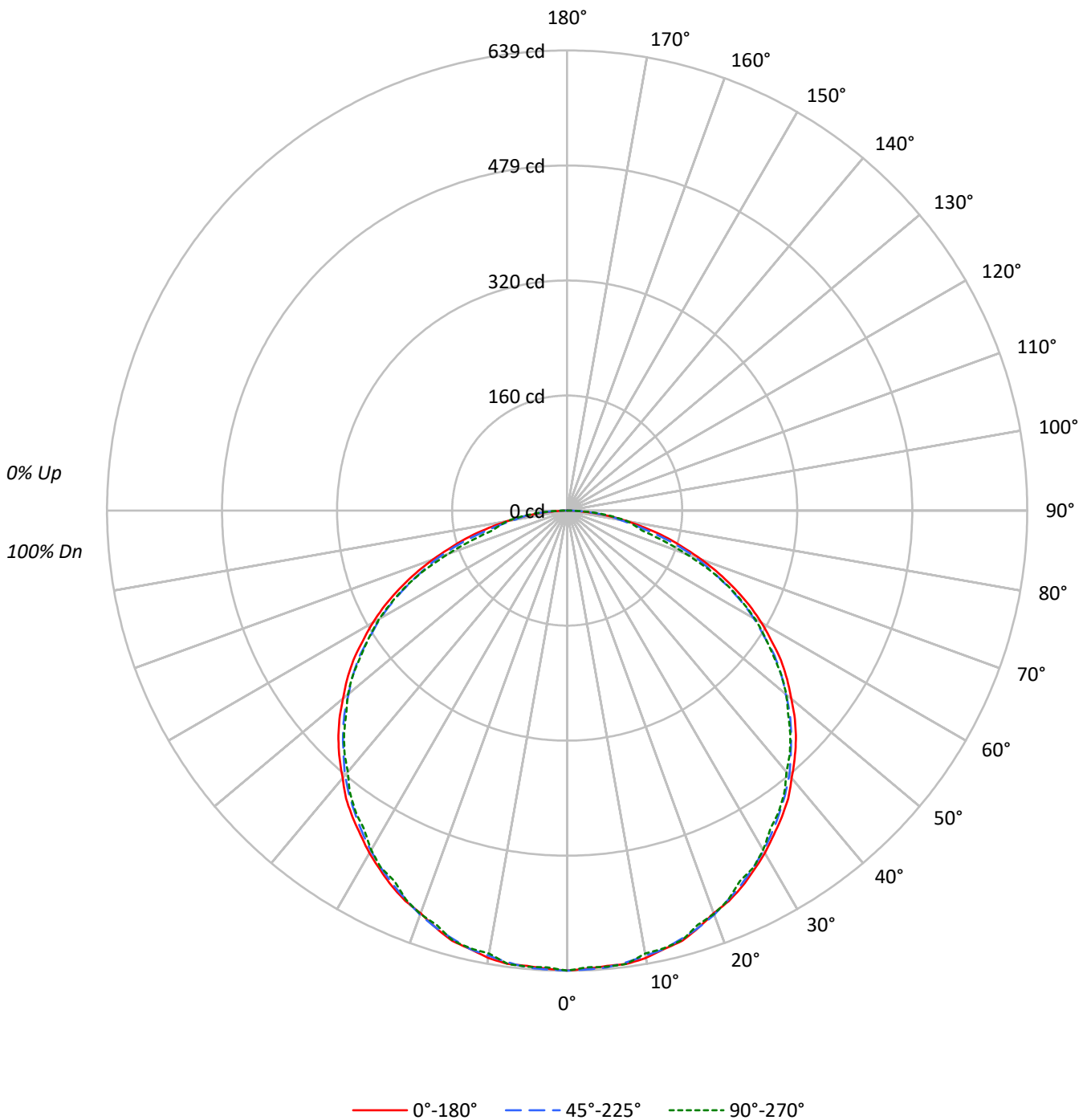
Input Watts (W): 15.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	36	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3438	3438	3438
5°	3430	3440	3435
10°	3447	3430	3413
15°	3446	3429	3440
20°	3408	3420	3414
25°	3419	3400	3370
30°	3413	3388	3381
35°	3414	3374	3361
40°	3407	3372	3329
45°	3420	3350	3334
50°	3404	3318	3327
55°	3403	3298	3270
60°	3356	3224	3246
65°	3270	3101	3126
70°	3111	2982	2757
75°	2924	2670	2246
80°	2622	2306	2622
85°	2013	2390	2581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.4	3.2
10°-20°	173.6	9.1
20°-30°	264.0	13.9
30°-40°	321.9	16.9
40°-50°	340.7	17.9
50°-60°	315.3	16.6
60°-70°	244.5	12.9
70°-80°	136.6	7.2
80°-90°	42.3	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°	498.1	26.2
0°-40°	820.0	43.2
0°-60°	1476.0	77.7
0°-90°	1899.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1899.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	639	639	639	639	639	
5°	635	636	637	633	636	61
15°	618	616	615	615	617	174
25°	576	573	573	573	568	265
35°	520	519	514	509	512	325
45°	449	446	440	437	438	346
55°	363	359	352	348	348	323
65°	257	254	244	246	246	254
75°	141	138	128	115	108	148
85°	33	34	39	41	42	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	638.8	638.8	638.8	638.8	638.8
2.5°	636.8	636.8	637.8	640.9	634.8
5°	634.8	635.8	636.8	632.7	635.8
7.5°	634.8	632.7	632.7	632.7	634.8
10°	630.7	625.6	627.6	629.7	624.6
12.5°	623.5	623.5	623.5	619.5	622.5
15°	618.5	616.4	615.4	615.4	617.4
17.5°	607.2	605.2	607.2	607.2	603.2
20°	595.0	598.1	597.1	594.0	596.0
22.5°	586.9	586.9	584.8	583.8	584.8
25°	575.7	572.6	572.6	572.6	567.5
27.5°	562.4	561.4	559.4	555.3	559.4
30°	549.2	547.1	545.1	543.1	544.1
32.5°	533.9	531.8	529.8	529.8	524.7
35°	519.6	518.6	513.5	509.4	511.5
37.5°	504.3	500.3	497.2	494.1	495.2
40°	485.0	482.9	479.9	476.8	473.8
42.5°	467.7	466.6	459.5	456.5	457.5
45°	449.3	446.3	440.1	437.1	438.1
47.5°	428.9	425.9	419.8	417.7	415.7
50°	406.5	405.5	396.3	393.3	397.4
52.5°	385.1	382.1	374.9	371.9	374.9
55°	362.7	358.6	351.5	348.5	348.5
57.5°	336.2	334.2	324.0	322.0	325.0
60°	311.8	307.7	299.5	297.5	301.6
62.5°	285.3	281.2	272.0	273.1	274.1
65°	256.8	253.7	243.5	245.5	245.5
67.5°	228.2	224.2	216.0	212.9	211.9
70°	197.7	194.6	189.5	179.3	175.2
72.5°	168.1	166.1	160.0	143.7	140.6
75°	140.6	137.5	128.4	115.1	108.0
77.5°	111.1	111.1	97.8	93.7	95.8
80°	84.6	83.5	74.4	81.5	84.6
82.5°	58.1	56.0	60.1	63.2	64.2
85°	32.6	33.6	38.7	40.8	41.8
87.5°	13.2	16.3	17.3	19.4	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)