

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: P392834

Luminaire Tested: **12EN-LD2-27-UNV-L82765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392834
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-L82765-W2A-1-U (2700K)
Description: 1X2 ENCOUNTER, 2700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2496.9 lumens
Efficiency: N/A
Efficacy: 107.2 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

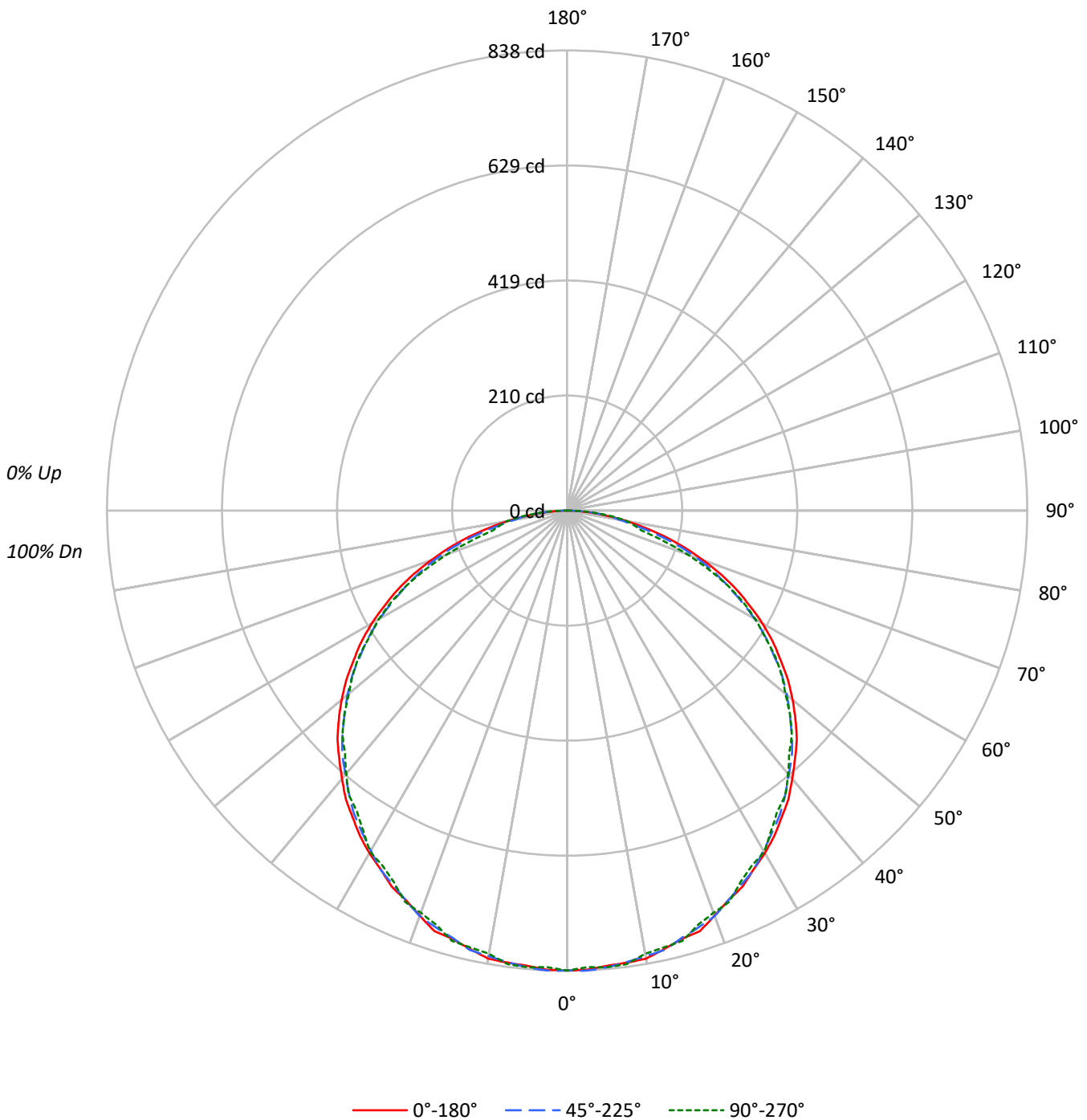
Input Watts (W): 23.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4508	4508	4508
5°	4495	4510	4510
10°	4528	4503	4478
15°	4500	4490	4520
20°	4495	4501	4464
25°	4488	4461	4434
30°	4477	4443	4460
35°	4476	4441	4387
40°	4480	4410	4397
45°	4501	4405	4405
50°	4488	4373	4343
55°	4449	4313	4339
60°	4420	4244	4264
65°	4339	4096	4107
70°	4131	3945	3644
75°	3853	3514	2909
80°	3406	3013	3434
85°	2692	3199	3310



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.3	3.2
10°-20°	227.9	9.1
20°-30°	346.7	13.9
30°-40°	422.6	16.9
40°-50°	447.8	17.9
50°-60°	414.7	16.6
60°-70°	322.3	12.9
70°-80°	179.9	7.2
80°-90°	55.6	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°	654.0	26.2
0°-40°	1076.6	43.1
0°-60°	1939.1	77.7
0°-90°	2496.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2496.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	838	838	838	838	838	
5°	832	835	835	835	835	79
15°	808	807	806	805	811	229
25°	756	754	751	750	747	348
35°	681	679	676	672	668	427
45°	591	586	579	573	579	455
55°	474	472	460	457	462	425
65°	341	333	322	322	322	335
75°	185	181	169	152	140	196
85°	44	44	52	54	54	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	837.6	837.6	837.6	837.6	837.6
2.5°	836.7	835.8	838.5	836.7	832.1
5°	832.1	834.8	834.8	834.8	834.8
7.5°	830.3	828.5	829.4	830.3	833.0
10°	828.5	823.0	823.9	823.0	819.4
12.5°	817.6	817.6	819.4	817.6	814.9
15°	807.6	806.7	805.8	804.9	811.2
17.5°	803.1	795.8	795.8	796.7	791.2
20°	784.9	784.9	785.8	783.1	779.4
22.5°	767.6	770.3	767.6	764.0	771.3
25°	755.8	754.0	751.3	750.4	746.7
27.5°	735.8	737.6	736.7	733.1	728.6
30°	720.4	718.6	714.9	710.4	717.7
32.5°	702.2	699.5	694.9	692.2	691.3
35°	681.3	678.6	675.9	672.2	667.7
37.5°	662.2	657.7	652.3	646.8	653.2
40°	637.7	635.9	627.7	624.1	625.9
42.5°	614.1	612.3	605.9	601.4	598.7
45°	591.4	585.9	578.7	573.2	578.7
47.5°	564.1	560.5	549.6	547.8	550.5
50°	536.0	531.4	522.3	519.6	518.7
52.5°	506.9	503.3	493.3	487.8	492.4
55°	474.2	472.4	459.7	456.9	462.4
57.5°	444.2	438.8	427.9	425.1	426.1
60°	410.6	406.1	394.3	390.6	396.1
62.5°	374.3	369.7	357.0	356.1	361.6
65°	340.7	333.4	321.6	322.5	322.5
67.5°	302.5	297.1	287.1	282.5	278.0
70°	262.5	258.9	250.7	236.2	231.6
72.5°	224.4	219.8	212.6	188.0	183.5
75°	185.3	180.8	169.0	151.7	139.9
77.5°	146.3	145.3	129.0	122.6	125.4
80°	109.9	109.0	97.2	107.2	110.8
82.5°	74.5	72.7	79.0	84.5	83.6
85°	43.6	44.5	51.8	53.6	53.6
87.5°	17.3	20.0	23.6	26.3	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)