

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: P392774

Luminaire Tested: **12EN-LD2-17-UNV-L82765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392774
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-L82765-W2A-1-U (4500K)
Description: 1X2 ENCOUNTER, 1700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1793.2 lumens
Efficiency: N/A
Efficacy: 115.7 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

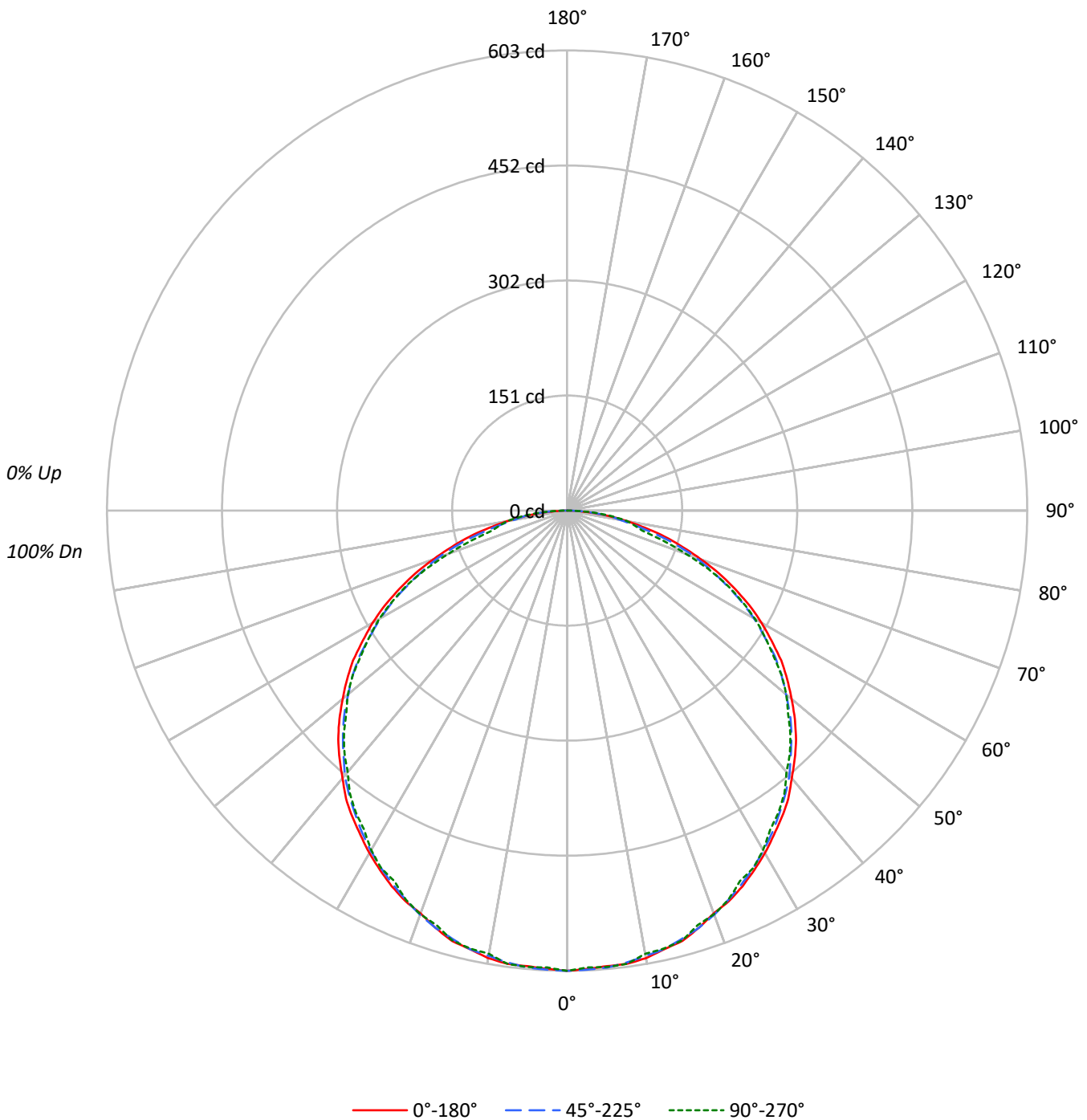
Input Watts (W): 15.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3246	3246	3246
5°	3237	3247	3243
10°	3254	3238	3222
15°	3253	3237	3248
20°	3217	3228	3223
25°	3227	3210	3181
30°	3222	3198	3192
35°	3223	3185	3172
40°	3216	3183	3143
45°	3229	3162	3148
50°	3213	3133	3141
55°	3213	3113	3086
60°	3168	3044	3064
65°	3087	2928	2952
70°	2936	2815	2603
75°	2759	2520	2121
80°	2473	2176	2473
85°	1902	2254	2433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	3.2
10°-20°	163.9	9.1
20°-30°	249.2	13.9
30°-40°	303.9	16.9
40°-50°	321.6	17.9
50°-60°	297.7	16.6
60°-70°	230.9	12.9
70°-80°	128.9	7.2
80°-90°	40.0	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°	470.2	26.2
0°-40°	774.1	43.2
0°-60°	1393.4	77.7
0°-90°	1793.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1793.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	603	603	603	603	603	
5°	599	600	601	597	600	57
15°	584	582	581	581	583	164
25°	543	540	540	540	536	250
35°	490	490	485	481	483	307
45°	424	421	416	413	414	327
55°	342	339	332	329	329	305
65°	242	240	230	232	232	239
75°	133	130	121	109	102	140
85°	31	32	36	38	39	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	603.1	603.1	603.1	603.1	603.1
2.5°	601.1	601.1	602.1	605.0	599.2
5°	599.2	600.2	601.1	597.3	600.2
7.5°	599.2	597.3	597.3	597.3	599.2
10°	595.4	590.6	592.5	594.4	589.6
12.5°	588.6	588.6	588.6	584.8	587.7
15°	583.8	581.9	580.9	580.9	582.9
17.5°	573.3	571.3	573.3	573.3	569.4
20°	561.7	564.6	563.6	560.7	562.7
22.5°	554.0	554.0	552.1	551.1	552.1
25°	543.4	540.5	540.5	540.5	535.7
27.5°	530.9	530.0	528.0	524.2	528.0
30°	518.4	516.5	514.6	512.7	513.6
32.5°	504.0	502.1	500.2	500.2	495.3
35°	490.5	489.6	484.8	480.9	482.8
37.5°	476.1	472.3	469.4	466.5	467.4
40°	457.8	455.9	453.0	450.1	447.3
42.5°	441.5	440.5	433.8	430.9	431.9
45°	424.2	421.3	415.5	412.6	413.6
47.5°	404.9	402.0	396.3	394.4	392.4
50°	383.8	382.8	374.2	371.3	375.1
52.5°	363.6	360.7	354.0	351.1	354.0
55°	342.4	338.6	331.8	328.9	328.9
57.5°	317.4	315.5	305.9	303.9	306.8
60°	294.3	290.5	282.8	280.9	284.7
62.5°	269.3	265.5	256.8	257.8	258.7
65°	242.4	239.5	229.9	231.8	231.8
67.5°	215.4	211.6	203.9	201.0	200.1
70°	186.6	183.7	178.9	169.3	165.4
72.5°	158.7	156.8	151.0	135.6	132.7
75°	132.7	129.8	121.2	108.7	102.0
77.5°	104.8	104.8	92.3	88.5	90.4
80°	79.8	78.9	70.2	76.9	79.8
82.5°	54.8	52.9	56.7	59.6	60.6
85°	30.8	31.7	36.5	38.5	39.4
87.5°	12.5	15.4	16.4	18.3	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)