

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: P392792

Luminaire Tested: **12EN-LD2-17-UNV-L92765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392792
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-L92765-W2A-1-U (5700K)
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: 1595.7 lumens
Efficiency: N/A
Efficacy: 102.9 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

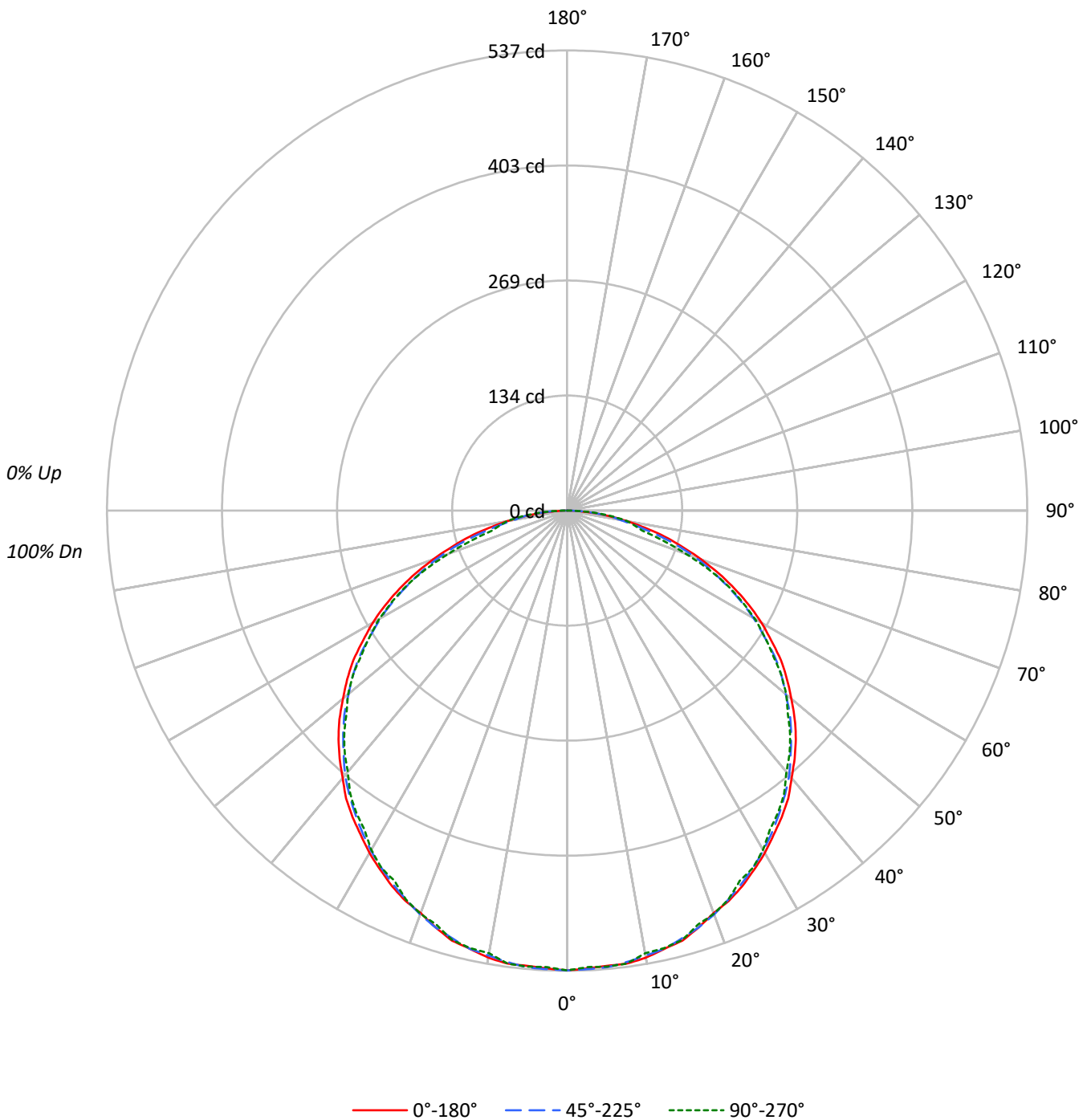
Input Watts (W): 15.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2888	2888	2888
5°	2881	2890	2885
10°	2895	2881	2867
15°	2895	2880	2890
20°	2863	2872	2868
25°	2872	2856	2831
30°	2867	2846	2840
35°	2868	2834	2823
40°	2862	2832	2796
45°	2872	2814	2801
50°	2859	2787	2795
55°	2859	2771	2746
60°	2819	2708	2726
65°	2747	2606	2627
70°	2612	2505	2316
75°	2456	2242	1886
80°	2201	1937	2201
85°	1692	2007	2167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.8	3.2
10°-20°	145.9	9.1
20°-30°	221.8	13.9
30°-40°	270.4	16.9
40°-50°	286.2	17.9
50°-60°	264.9	16.6
60°-70°	205.4	12.9
70°-80°	114.8	7.2
80°-90°	35.6	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°	418.4	26.2
0°-40°	688.9	43.2
0°-60°	1239.9	77.7
0°-90°	1595.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1595.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	537	537	537	537	537	
5°	533	534	535	532	534	51
15°	520	518	517	517	519	146
25°	484	481	481	481	477	223
35°	436	436	431	428	430	273
45°	377	375	370	367	368	291
55°	305	301	295	293	293	271
65°	216	213	205	206	206	213
75°	118	116	108	97	91	124
85°	27	28	32	34	35	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	536.6	536.6	536.6	536.6	536.6
2.5°	534.9	534.9	535.8	538.3	533.2
5°	533.2	534.1	534.9	531.5	534.1
7.5°	533.2	531.5	531.5	531.5	533.2
10°	529.8	525.5	527.2	528.9	524.6
12.5°	523.8	523.8	523.8	520.4	522.9
15°	519.5	517.8	516.9	516.9	518.7
17.5°	510.1	508.4	510.1	510.1	506.7
20°	499.8	502.4	501.5	499.0	500.7
22.5°	493.0	493.0	491.3	490.4	491.3
25°	483.6	481.0	481.0	481.0	476.7
27.5°	472.4	471.6	469.9	466.4	469.9
30°	461.3	459.6	457.9	456.2	457.0
32.5°	448.5	446.8	445.1	445.1	440.8
35°	436.5	435.6	431.4	427.9	429.6
37.5°	423.7	420.2	417.7	415.1	416.0
40°	407.4	405.7	403.1	400.5	398.0
42.5°	392.8	392.0	386.0	383.4	384.3
45°	377.4	374.9	369.7	367.2	368.0
47.5°	360.3	357.8	352.6	350.9	349.2
50°	341.5	340.6	332.9	330.4	333.8
52.5°	323.5	321.0	315.0	312.4	315.0
55°	304.7	301.3	295.3	292.7	292.7
57.5°	282.4	280.7	272.2	270.5	273.0
60°	261.9	258.5	251.6	249.9	253.3
62.5°	239.6	236.2	228.5	229.4	230.2
65°	215.7	213.1	204.6	206.3	206.3
67.5°	191.7	188.3	181.4	178.9	178.0
70°	166.0	163.5	159.2	150.6	147.2
72.5°	141.2	139.5	134.4	120.7	118.1
75°	118.1	115.5	107.8	96.7	90.7
77.5°	93.3	93.3	82.2	78.7	80.5
80°	71.0	70.2	62.5	68.5	71.0
82.5°	48.8	47.1	50.5	53.1	53.9
85°	27.4	28.2	32.5	34.2	35.1
87.5°	11.1	13.7	14.5	16.3	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)