

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: P392787

Luminaire Tested: **12EN-LD2-17-UNV-L92765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392787
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 (3000K)
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: 1443.3 lumens
Efficiency: N/A
Efficacy: 93.7 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

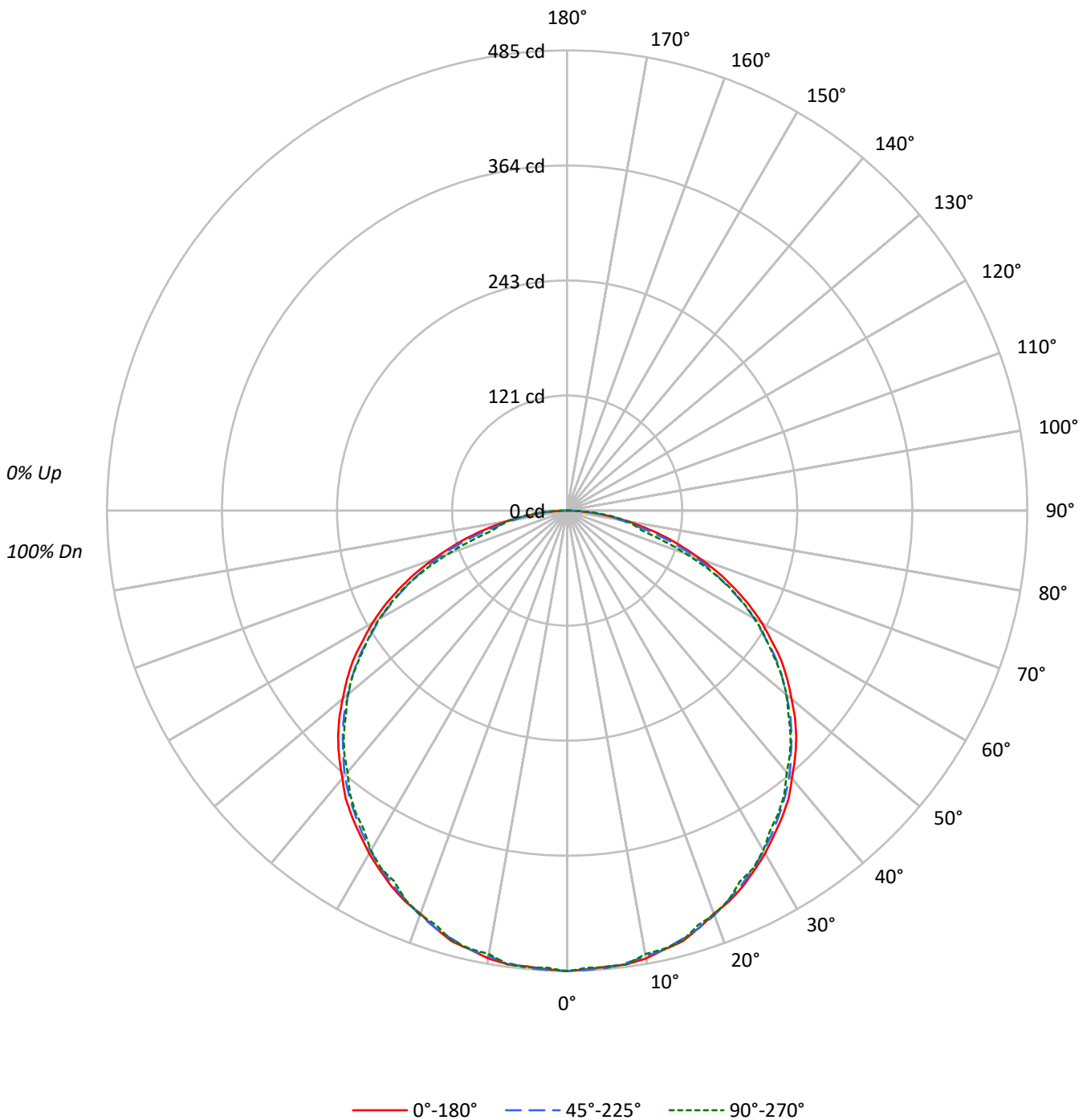
Input Watts (W): 15.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2612	2612	2612
5°	2606	2614	2610
10°	2619	2606	2594
15°	2618	2605	2614
20°	2589	2599	2594
25°	2597	2584	2561
30°	2593	2574	2569
35°	2594	2564	2553
40°	2589	2562	2529
45°	2598	2545	2534
50°	2586	2521	2528
55°	2586	2506	2485
60°	2550	2450	2466
65°	2485	2356	2376
70°	2364	2266	2096
75°	2221	2027	1707
80°	1993	1751	1993
85°	1531	1815	1958



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.9	3.2
10°-20°	131.9	9.1
20°-30°	200.6	13.9
30°-40°	244.6	16.9
40°-50°	258.9	17.9
50°-60°	239.6	16.6
60°-70°	185.8	12.9
70°-80°	103.8	7.2
80°-90°	32.2	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°	378.5	26.2
0°-40°	623.1	43.2
0°-60°	1121.5	77.7
0°-90°	1443.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1443.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	485	485	485	485	485	
5°	482	483	484	481	483	46
15°	470	468	468	468	469	132
25°	437	435	435	435	431	201
35°	395	394	390	387	389	247
45°	341	339	334	332	333	263
55°	276	272	267	265	265	245
65°	195	193	185	187	187	193
75°	107	104	98	88	82	112
85°	25	26	29	31	32	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	485.4	485.4	485.4	485.4	485.4
2.5°	483.8	483.8	484.6	486.9	482.3
5°	482.3	483.1	483.8	480.7	483.1
7.5°	482.3	480.7	480.7	480.7	482.3
10°	479.2	475.3	476.9	478.4	474.6
12.5°	473.8	473.8	473.8	470.7	473.0
15°	469.9	468.4	467.6	467.6	469.1
17.5°	461.4	459.8	461.4	461.4	458.3
20°	452.1	454.4	453.7	451.3	452.9
22.5°	445.9	445.9	444.4	443.6	444.4
25°	437.4	435.1	435.1	435.1	431.2
27.5°	427.3	426.6	425.0	421.9	425.0
30°	417.3	415.7	414.2	412.6	413.4
32.5°	405.7	404.1	402.6	402.6	398.7
35°	394.8	394.0	390.2	387.1	388.6
37.5°	383.2	380.1	377.8	375.5	376.2
40°	368.5	366.9	364.6	362.3	360.0
42.5°	355.3	354.6	349.1	346.8	347.6
45°	341.4	339.1	334.4	332.1	332.9
47.5°	325.9	323.6	319.0	317.4	315.9
50°	308.9	308.1	301.1	298.8	301.9
52.5°	292.6	290.3	284.9	282.6	284.9
55°	275.6	272.5	267.1	264.8	264.8
57.5°	255.5	253.9	246.2	244.6	247.0
60°	236.9	233.8	227.6	226.1	229.1
62.5°	216.8	213.7	206.7	207.5	208.2
65°	195.1	192.8	185.0	186.6	186.6
67.5°	173.4	170.3	164.1	161.8	161.0
70°	150.2	147.9	144.0	136.3	133.2
72.5°	127.7	126.2	121.5	109.2	106.8
75°	106.8	104.5	97.5	87.5	82.1
77.5°	84.4	84.4	74.3	71.2	72.8
80°	64.3	63.5	56.5	61.9	64.3
82.5°	44.1	42.6	45.7	48.0	48.8
85°	24.8	25.5	29.4	31.0	31.7
87.5°	10.1	12.4	13.2	14.7	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)