

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: P392772

Luminaire Tested: **12EN-LD2-17-UNV-L82765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392772
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 (3500K)
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: 1765.8 lumens
Efficiency: N/A
Efficacy: 113.2 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

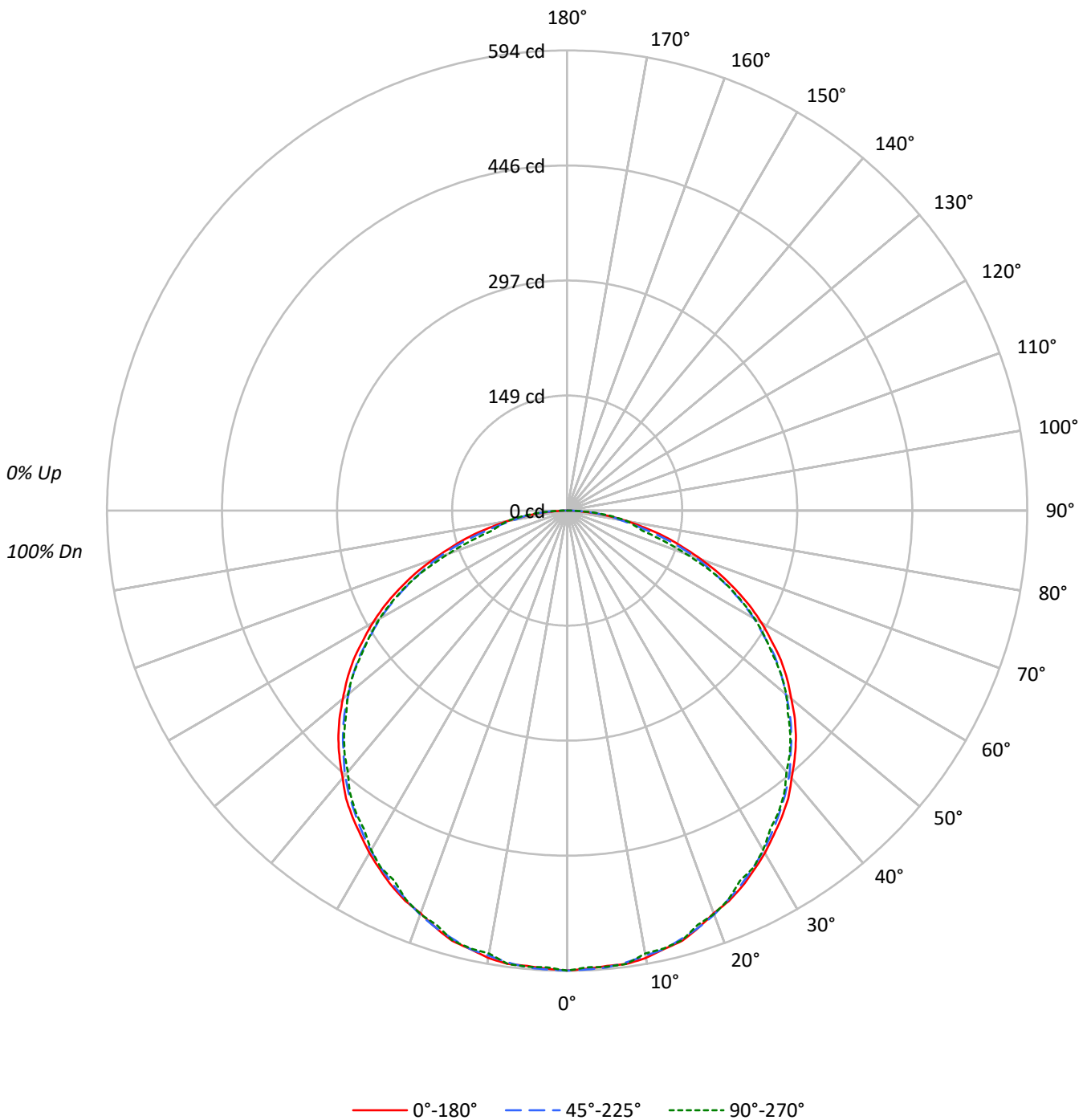
Input Watts (W): 15.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3196	3196	3196
5°	3188	3198	3193
10°	3204	3188	3173
15°	3203	3188	3198
20°	3168	3179	3174
25°	3178	3161	3132
30°	3173	3149	3143
35°	3173	3136	3124
40°	3167	3134	3094
45°	3179	3115	3100
50°	3164	3085	3093
55°	3164	3066	3039
60°	3119	2998	3017
65°	3040	2883	2907
70°	2891	2773	2563
75°	2718	2481	2088
80°	2436	2142	2436
85°	1871	2223	2396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.2	3.2
10°-20°	161.4	9.1
20°-30°	245.4	13.9
30°-40°	299.3	16.9
40°-50°	316.7	17.9
50°-60°	293.1	16.6
60°-70°	227.3	12.9
70°-80°	127.0	7.2
80°-90°	39.4	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°	463.1	26.2
0°-40°	762.3	43.2
0°-60°	1372.1	77.7
0°-90°	1765.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1765.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	594	594	594	594	594	
5°	590	591	592	588	591	56
15°	575	573	572	572	574	162
25°	535	532	532	532	528	246
35°	483	482	477	474	476	302
45°	418	415	409	406	407	322
55°	337	333	327	324	324	300
65°	239	236	226	228	228	236
75°	131	128	119	107	100	137
85°	30	31	36	38	39	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	593.8	593.8	593.8	593.8	593.8
2.5°	591.9	591.9	592.9	595.7	590.1
5°	590.1	591.0	591.9	588.2	591.0
7.5°	590.1	588.2	588.2	588.2	590.1
10°	586.3	581.5	583.4	585.3	580.6
12.5°	579.6	579.6	579.6	575.8	578.7
15°	574.9	573.0	572.1	572.1	574.0
17.5°	564.5	562.6	564.5	564.5	560.7
20°	553.1	556.0	555.0	552.2	554.1
22.5°	545.5	545.5	543.6	542.7	543.6
25°	535.1	532.3	532.3	532.3	527.5
27.5°	522.8	521.9	520.0	516.2	520.0
30°	510.5	508.6	506.7	504.8	505.8
32.5°	496.3	494.4	492.5	492.5	487.8
35°	483.0	482.1	477.3	473.6	475.5
37.5°	468.8	465.0	462.2	459.3	460.3
40°	450.8	448.9	446.1	443.2	440.4
42.5°	434.7	433.8	427.1	424.3	425.3
45°	417.7	414.8	409.2	406.3	407.3
47.5°	398.7	395.9	390.2	388.3	386.4
50°	377.9	377.0	368.4	365.6	369.4
52.5°	358.0	355.2	348.5	345.7	348.5
55°	337.2	333.4	326.8	323.9	323.9
57.5°	312.5	310.7	301.2	299.3	302.1
60°	289.8	286.0	278.5	276.6	280.3
62.5°	265.2	261.4	252.9	253.8	254.8
65°	238.7	235.8	226.4	228.3	228.3
67.5°	212.2	208.4	200.8	197.9	197.0
70°	183.7	180.9	176.2	166.7	162.9
72.5°	156.3	154.4	148.7	133.5	130.7
75°	130.7	127.9	119.3	107.0	100.4
77.5°	103.2	103.2	90.9	87.1	89.0
80°	78.6	77.7	69.1	75.8	78.6
82.5°	54.0	52.1	55.9	58.7	59.7
85°	30.3	31.3	36.0	37.9	38.8
87.5°	12.3	15.2	16.1	18.0	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)