

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: P392778

Luminaire Tested: **12EN-LD2-17-UNV-L83050-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392778
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-L83050-W2A-1-U (2700K)
Description: 1X2 ENCOUNTER, 1700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1798.8 lumens
Efficiency: N/A
Efficacy: 117.6 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

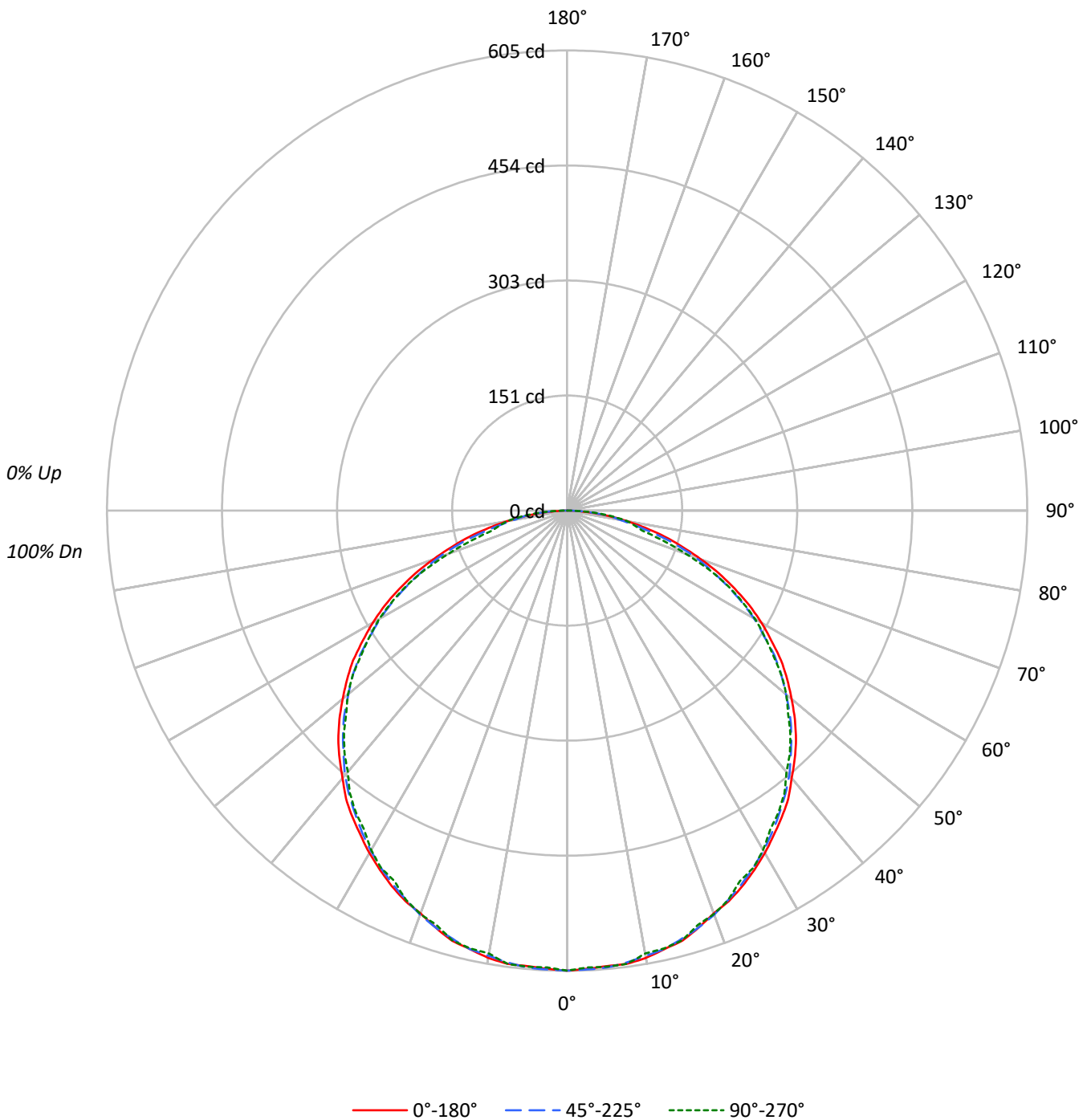
Input Watts (W): 15.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3256	3256	3256
5°	3247	3258	3252
10°	3264	3248	3232
15°	3263	3247	3258
20°	3227	3238	3233
25°	3237	3220	3191
30°	3232	3208	3202
35°	3233	3195	3182
40°	3227	3192	3152
45°	3239	3172	3158
50°	3224	3142	3151
55°	3223	3124	3096
60°	3178	3054	3074
65°	3096	2937	2961
70°	2946	2825	2611
75°	2768	2529	2127
80°	2483	2182	2483
85°	1908	2266	2445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.2	3.2
10°-20°	164.4	9.1
20°-30°	250.0	13.9
30°-40°	304.8	16.9
40°-50°	322.6	17.9
50°-60°	298.6	16.6
60°-70°	231.6	12.9
70°-80°	129.4	7.2
80°-90°	40.1	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°	471.7	26.2
0°-40°	776.5	43.2
0°-60°	1397.8	77.7
0°-90°	1798.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1798.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	605	605	605	605	605	
5°	601	602	603	599	602	57
15°	586	584	583	583	585	165
25°	545	542	542	542	537	251
35°	492	491	486	482	484	308
45°	426	423	417	414	415	328
55°	344	340	333	330	330	306
65°	243	240	231	232	232	240
75°	133	130	122	109	102	140
85°	31	32	37	39	40	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	604.9	604.9	604.9	604.9	604.9
2.5°	603.0	603.0	604.0	606.9	601.1
5°	601.1	602.0	603.0	599.2	602.0
7.5°	601.1	599.2	599.2	599.2	601.1
10°	597.2	592.4	594.3	596.3	591.4
12.5°	590.5	590.5	590.5	586.6	589.5
15°	585.6	583.7	582.8	582.8	584.7
17.5°	575.0	573.1	575.0	575.0	571.2
20°	563.5	566.3	565.4	562.5	564.4
22.5°	555.7	555.7	553.8	552.8	553.8
25°	545.1	542.2	542.2	542.2	537.4
27.5°	532.6	531.6	529.7	525.8	529.7
30°	520.0	518.1	516.2	514.2	515.2
32.5°	505.6	503.6	501.7	501.7	496.9
35°	492.1	491.1	486.3	482.4	484.3
37.5°	477.6	473.7	470.8	467.9	468.9
40°	459.3	457.3	454.4	451.5	448.6
42.5°	442.9	441.9	435.1	432.2	433.2
45°	425.5	422.6	416.8	413.9	414.9
47.5°	406.2	403.3	397.5	395.6	393.6
50°	385.0	384.0	375.3	372.4	376.3
52.5°	364.7	361.8	355.1	352.2	355.1
55°	343.5	339.6	332.9	330.0	330.0
57.5°	318.4	316.5	306.8	304.9	307.8
60°	295.2	291.4	283.7	281.7	285.6
62.5°	270.1	266.3	257.6	258.6	259.5
65°	243.1	240.2	230.6	232.5	232.5
67.5°	216.1	212.3	204.5	201.6	200.7
70°	187.2	184.3	179.5	169.8	165.9
72.5°	159.2	157.3	151.5	136.0	133.1
75°	133.1	130.3	121.6	109.0	102.3
77.5°	105.2	105.2	92.6	88.8	90.7
80°	80.1	79.1	70.4	77.2	80.1
82.5°	55.0	53.1	56.9	59.8	60.8
85°	30.9	31.8	36.7	38.6	39.6
87.5°	12.5	15.4	16.4	18.3	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)