

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: P393112

Luminaire Tested: **14EN-LD2-38-UNV-L92765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393112  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-53)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14EN-LD2-38-UNV-L92765-W2A-1-U (5700K)  
Description: 1X4 ENCOUNTER, 3800 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3229.4 lumens  
Efficiency: N/A  
Efficacy: 88.5 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

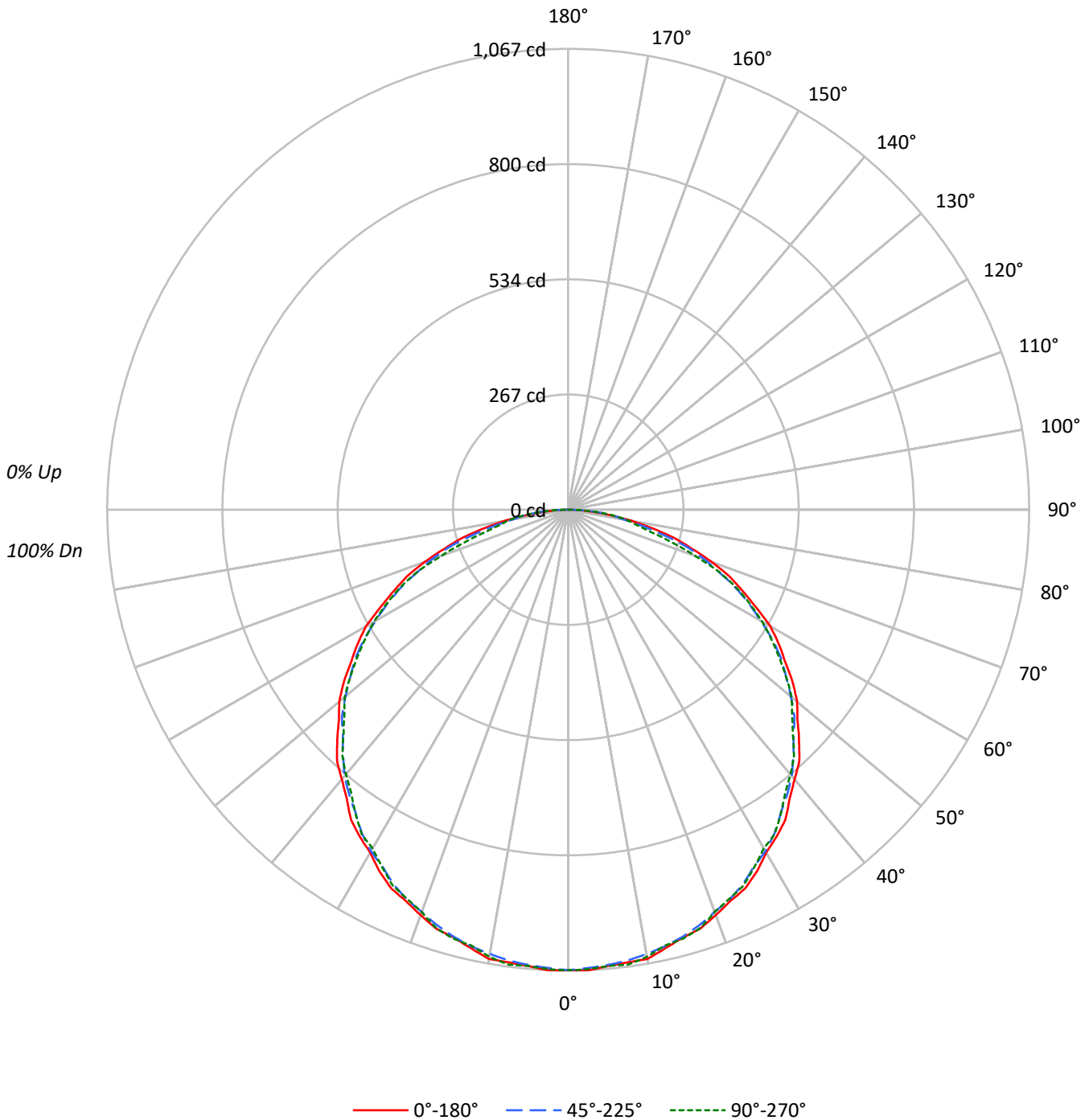
Input Watts (W): 36.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2870	2870	2870
5°	2864	2858	2864
10°	2886	2853	2872
15°	2856	2852	2864
20°	2860	2838	2838
25°	2874	2841	2851
30°	2848	2838	2814
35°	2879	2817	2820
40°	2862	2829	2811
45°	2876	2808	2798
50°	2895	2816	2827
55°	2875	2823	2795
60°	2907	2768	2792
65°	2834	2725	2747
70°	2774	2640	2458
75°	2643	2403	2038
80°	2307	1990	2162
85°	1692	2140	2167



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.9	3.1
10°-20°	289.7	9.0
20°-30°	441.8	13.7
30°-40°	539.7	16.7
40°-50°	574.1	17.8
50°-60°	539.0	16.7
60°-70°	427.4	13.2
70°-80°	243.5	7.5
80°-90°	73.2	2.3
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°	832.5	25.8
0°-40°	1372.2	42.5
0°-60°	2485.2	77.0
0°-90°	3229.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3229.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1066	1066	1066	1066	1066	
5°	1060	1066	1058	1061	1060	101
15°	1025	1027	1024	1025	1028	290
25°	968	959	957	958	960	445
35°	876	866	858	858	858	546
45°	756	752	738	739	735	583
55°	613	609	602	596	596	551
65°	445	442	428	430	431	442
75°	254	245	231	207	196	265
85°	55	61	69	69	70	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1066.4	1066.4	1066.4	1066.4	1066.4
2.5°	1067.3	1066.4	1062.1	1067.3	1064.7
5°	1060.4	1066.4	1057.9	1061.3	1060.4
7.5°	1057.0	1055.3	1052.7	1058.7	1062.1
10°	1056.1	1047.6	1044.2	1050.2	1051.0
12.5°	1039.9	1042.4	1035.6	1037.3	1033.9
15°	1025.3	1027.0	1023.6	1025.3	1027.9
17.5°	1016.8	1011.6	1009.1	1012.5	1015.9
20°	998.8	999.7	991.1	995.4	991.1
22.5°	980.8	981.7	976.5	976.5	974.8
25°	968.0	958.6	956.9	957.7	960.3
27.5°	944.9	941.5	931.2	934.6	932.9
30°	916.6	920.1	913.2	906.4	905.5
32.5°	897.8	891.8	888.4	885.8	890.1
35°	876.4	866.1	857.6	858.4	858.4
37.5°	842.2	841.3	831.9	827.6	825.1
40°	814.8	811.4	805.4	799.4	800.2
42.5°	791.7	780.6	771.1	769.4	773.7
45°	755.7	751.5	737.8	738.6	735.2
47.5°	719.8	718.9	710.4	703.5	702.7
50°	691.5	683.0	672.7	671.0	675.3
52.5°	654.7	650.5	635.9	635.9	635.9
55°	612.8	609.4	601.7	595.7	595.7
57.5°	577.7	570.9	561.4	557.2	557.2
60°	540.1	529.8	514.4	516.1	518.7
62.5°	490.4	485.3	471.6	469.9	475.0
65°	445.1	442.5	427.9	429.6	431.4
67.5°	404.8	393.7	377.4	383.4	380.0
70°	352.6	346.6	335.5	323.5	312.4
72.5°	300.4	297.0	291.0	261.9	251.6
75°	254.2	244.8	231.1	207.1	196.0
77.5°	199.4	196.8	177.2	158.3	160.0
80°	148.9	150.6	128.4	136.1	139.5
82.5°	97.6	101.0	105.3	110.4	107.8
85°	54.8	60.8	69.3	69.3	70.2
87.5°	19.7	29.1	30.8	30.8	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)