

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: P393121

Luminaire Tested: **14EN-LD2-38-UNV-L93050-W2A-1-U (6500K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393121  
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-L93050-W2A-1-U (6500K)  
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: 3328.6 lumens  
Efficiency: N/A  
Efficacy: 92.5 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

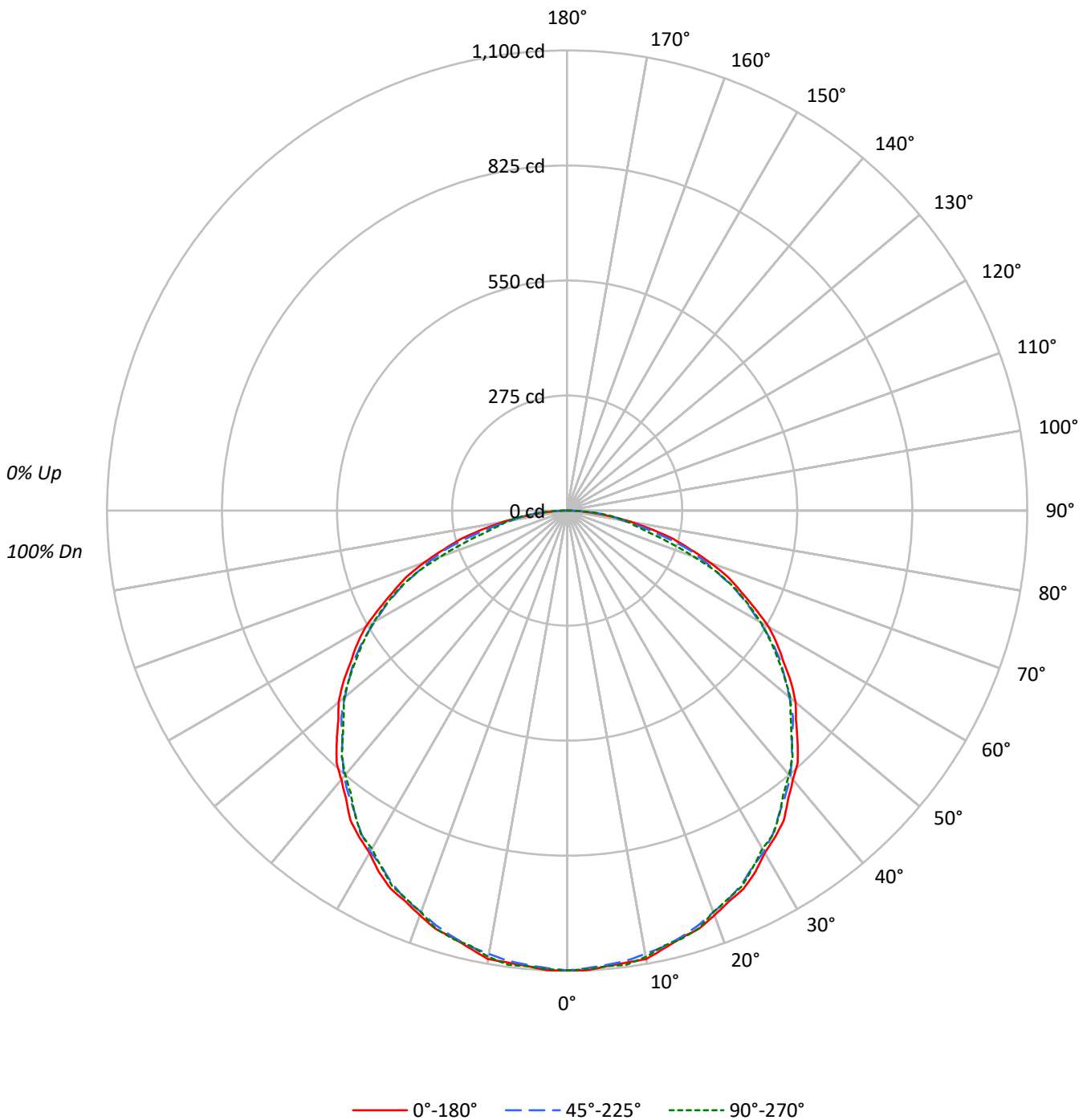
Input Watts (W): 36  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2958	2958	2958
5°	2952	2945	2952
10°	2975	2941	2960
15°	2944	2939	2952
20°	2948	2925	2925
25°	2962	2928	2939
30°	2936	2925	2900
35°	2967	2904	2907
40°	2950	2916	2897
45°	2964	2894	2884
50°	2984	2903	2914
55°	2963	2910	2881
60°	2996	2854	2877
65°	2921	2809	2831
70°	2859	2721	2533
75°	2724	2477	2100
80°	2379	2050	2228
85°	1744	2208	2232



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.0	3.1
10°-20°	298.6	9.0
20°-30°	455.4	13.7
30°-40°	556.3	16.7
40°-50°	591.7	17.8
50°-60°	555.5	16.7
60°-70°	440.6	13.2
70°-80°	251.0	7.5
80°-90°	75.5	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°	858.0	25.8
0°-40°	1414.3	42.5
0°-60°	2561.5	77.0
0°-90°	3328.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3328.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1099	1099	1099	1099	1099	
5°	1093	1099	1090	1094	1093	104
15°	1057	1059	1055	1057	1060	299
25°	998	988	986	987	990	458
35°	903	893	884	885	885	562
45°	779	774	760	761	758	601
55°	632	628	620	614	614	568
65°	459	456	441	443	445	456
75°	262	252	238	214	202	273
85°	56	63	72	72	72	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1099.2	1099.2	1099.2	1099.2	1099.2
2.5°	1100.0	1099.2	1094.7	1100.0	1097.4
5°	1093.0	1099.2	1090.3	1093.9	1093.0
7.5°	1089.5	1087.7	1085.0	1091.2	1094.7
10°	1088.6	1079.8	1076.2	1082.4	1083.3
12.5°	1071.8	1074.5	1067.4	1069.2	1065.6
15°	1056.8	1058.6	1055.1	1056.8	1059.5
17.5°	1048.0	1042.7	1040.1	1043.6	1047.1
20°	1029.5	1030.4	1021.5	1025.9	1021.5
22.5°	1010.9	1011.8	1006.5	1006.5	1004.8
25°	997.7	988.0	986.2	987.1	989.8
27.5°	973.9	970.4	959.8	963.3	961.5
30°	944.8	948.3	941.3	934.2	933.3
32.5°	925.4	919.2	915.7	913.0	917.4
35°	903.3	892.7	883.9	884.8	884.8
37.5°	868.0	867.2	857.4	853.0	850.4
40°	839.8	836.3	830.1	823.9	824.8
42.5°	816.0	804.5	794.8	793.1	797.5
45°	778.9	774.5	760.4	761.3	757.8
47.5°	741.9	741.0	732.2	725.1	724.2
50°	712.8	704.0	693.4	691.6	696.0
52.5°	674.8	670.4	655.4	655.4	655.4
55°	631.6	628.1	620.2	614.0	614.0
57.5°	595.5	588.4	578.7	574.3	574.3
60°	556.6	546.1	530.2	531.9	534.6
62.5°	505.5	500.2	486.1	484.3	489.6
65°	458.7	456.1	441.1	442.8	444.6
67.5°	417.3	405.8	389.0	395.2	391.7
70°	363.4	357.3	345.8	333.5	322.0
72.5°	309.6	306.1	299.9	269.9	259.4
75°	262.0	252.3	238.2	213.5	202.0
77.5°	205.5	202.9	182.6	163.2	165.0
80°	153.5	155.3	132.3	140.3	143.8
82.5°	100.6	104.1	108.5	113.8	111.2
85°	56.5	62.6	71.5	71.5	72.3
87.5°	20.3	30.0	31.8	31.8	31.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)