

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: P393115

Luminaire Tested: **14EN-LD2-38-UNV-L93050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393115  
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 (3000K)  
Description: 1X4 ENCOUNTER, 3800 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3100.7 lumens  
Efficiency: N/A  
Efficacy: 84.5 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

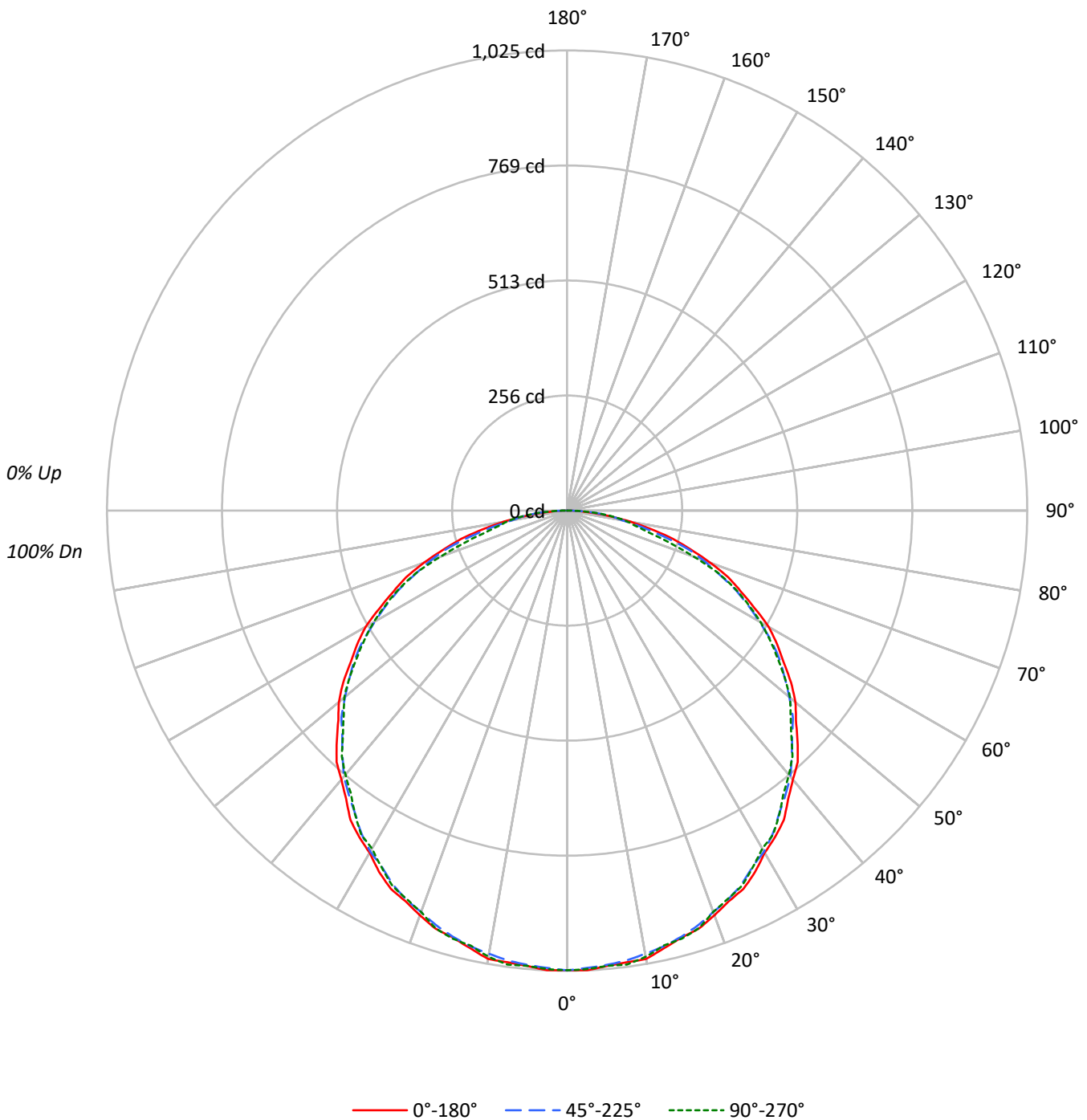
Input Watts (W): 36.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2755	2755	2755
5°	2750	2744	2750
10°	2771	2739	2757
15°	2742	2738	2749
20°	2746	2725	2725
25°	2760	2728	2738
30°	2735	2724	2701
35°	2764	2705	2708
40°	2748	2716	2699
45°	2761	2696	2686
50°	2780	2704	2714
55°	2761	2710	2683
60°	2791	2658	2680
65°	2721	2616	2637
70°	2664	2534	2360
75°	2538	2307	1957
80°	2216	1911	2075
85°	1624	2056	2081



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.9	3.1
10°-20°	278.1	9.0
20°-30°	424.2	13.7
30°-40°	518.2	16.7
40°-50°	551.2	17.8
50°-60°	517.5	16.7
60°-70°	410.4	13.2
70°-80°	233.8	7.5
80°-90°	70.3	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°	799.3	25.8
0°-40°	1317.5	42.5
0°-60°	2386.1	77.0
0°-90°	3100.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3100.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1024	1024	1024	1024	1024	
5°	1018	1024	1016	1019	1018	97
15°	984	986	983	984	987	279
25°	929	920	919	920	922	427
35°	842	832	823	824	824	524
45°	726	722	708	709	706	560
55°	588	585	578	572	572	529
65°	427	425	411	412	414	425
75°	244	235	222	199	188	254
85°	53	58	67	67	67	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1023.9	1023.9	1023.9	1023.9	1023.9
2.5°	1024.7	1023.9	1019.8	1024.7	1022.2
5°	1018.1	1023.9	1015.7	1019.0	1018.1
7.5°	1014.9	1013.2	1010.7	1016.5	1019.8
10°	1014.0	1005.8	1002.5	1008.3	1009.1
12.5°	998.4	1000.9	994.3	996.0	992.7
15°	984.4	986.1	982.8	984.4	986.9
17.5°	976.2	971.3	968.8	972.1	975.4
20°	959.0	959.8	951.6	955.7	951.6
22.5°	941.7	942.5	937.6	937.6	936.0
25°	929.4	920.4	918.7	919.5	922.0
27.5°	907.2	903.9	894.1	897.3	895.7
30°	880.1	883.4	876.8	870.2	869.4
32.5°	862.0	856.3	853.0	850.5	854.6
35°	841.5	831.6	823.4	824.2	824.2
37.5°	808.6	807.8	798.7	794.6	792.2
40°	782.3	779.0	773.3	767.5	768.3
42.5°	760.1	749.4	740.4	738.7	742.9
45°	725.6	721.5	708.3	709.2	705.9
47.5°	691.1	690.3	682.0	675.5	674.7
50°	664.0	655.8	645.9	644.2	648.4
52.5°	628.6	624.5	610.6	610.6	610.6
55°	588.4	585.1	577.7	571.9	571.9
57.5°	554.7	548.1	539.1	535.0	535.0
60°	518.5	508.7	493.9	495.5	498.0
62.5°	470.9	465.9	452.8	451.1	456.1
65°	427.3	424.8	410.9	412.5	414.2
67.5°	388.7	378.0	362.4	368.1	364.9
70°	338.6	332.8	322.1	310.6	299.9
72.5°	288.4	285.1	279.4	251.5	241.6
75°	244.1	235.0	221.9	198.9	188.2
77.5°	191.5	189.0	170.1	152.0	153.7
80°	143.0	144.6	123.3	130.7	133.9
82.5°	93.7	97.0	101.1	106.0	103.5
85°	52.6	58.3	66.6	66.6	67.4
87.5°	18.9	27.9	29.6	29.6	29.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)