

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: P393139

Luminaire Tested: **14EN-LD2-43-UNV-L92765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393139  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-54)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14EN-LD2-43-UNV-L92765-W2A-1-U (3000K)  
Description: 1X4 ENCOUNTER, 4300 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3292.3 lumens  
Efficiency: N/A  
Efficacy: 79.5 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

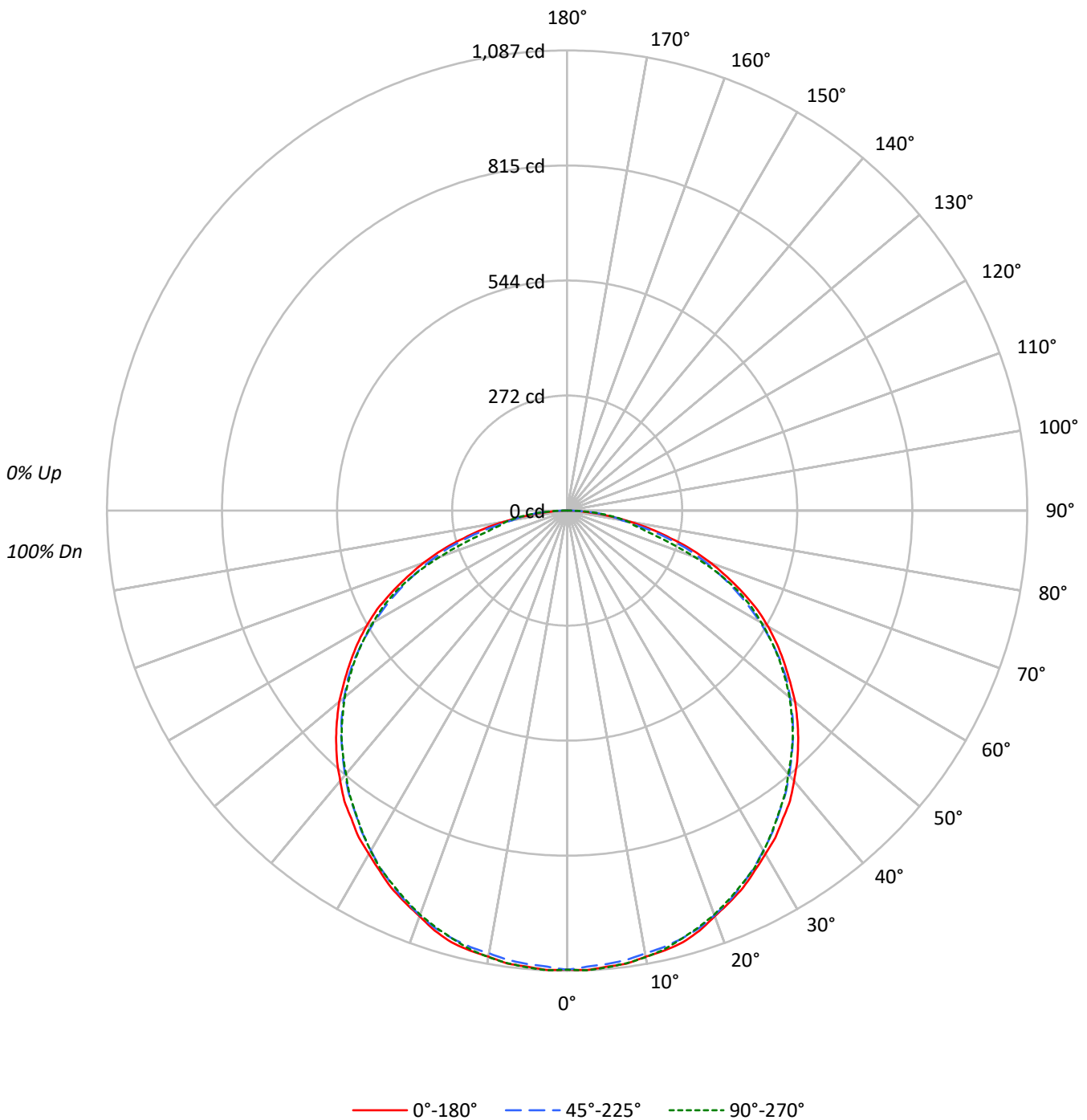
Input Watts (W): 41.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2919	2919	2919
5°	2921	2905	2925
10°	2923	2902	2928
15°	2942	2916	2916
20°	2920	2913	2909
25°	2919	2899	2894
30°	2911	2882	2884
35°	2919	2866	2864
40°	2929	2866	2856
45°	2937	2872	2869
50°	2943	2878	2871
55°	2935	2880	2866
60°	2950	2833	2854
65°	2913	2760	2814
70°	2839	2680	2528
75°	2632	2471	2061
80°	2328	2016	2219
85°	1698	2198	2248



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.8	3.1
10°-20°	296.0	9.0
20°-30°	450.4	13.7
30°-40°	549.7	16.7
40°-50°	585.7	17.8
50°-60°	549.1	16.7
60°-70°	436.2	13.2
70°-80°	248.0	7.5
80°-90°	74.4	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°	849.1	25.8
0°-40°	1398.8	42.5
0°-60°	2533.7	77.0
0°-90°	3292.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3292.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1085	1085	1085	1085	1085	
5°	1082	1079	1075	1084	1083	103
15°	1056	1053	1047	1045	1047	297
25°	983	978	976	973	975	453
35°	889	881	872	875	872	557
45°	772	768	755	752	754	595
55°	626	620	614	606	611	560
65°	458	450	434	439	442	452
75°	253	251	238	211	198	270
85°	55	60	71	71	73	68
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1084.6	1084.6	1084.6	1084.6	1084.6
2.5°	1086.1	1083.0	1078.4	1088.5	1086.9
5°	1081.5	1079.2	1075.3	1083.8	1083.0
7.5°	1079.2	1074.5	1070.7	1079.9	1078.4
10°	1069.9	1070.7	1062.1	1071.4	1071.4
12.5°	1064.5	1062.9	1055.9	1059.0	1061.4
15°	1055.9	1052.8	1046.7	1045.1	1046.7
17.5°	1040.5	1037.4	1035.0	1029.6	1031.9
20°	1019.6	1021.1	1017.2	1012.6	1015.7
22.5°	1001.8	1000.2	998.7	994.0	995.6
25°	983.2	978.5	976.2	973.1	974.7
27.5°	959.2	956.1	953.0	951.4	954.5
30°	936.7	932.1	927.4	925.9	928.2
32.5°	915.8	907.3	901.9	902.7	900.3
35°	888.7	881.0	872.5	874.8	871.7
37.5°	864.7	855.4	846.1	848.5	844.6
40°	833.8	828.3	816.0	817.5	812.9
42.5°	804.3	801.2	785.0	785.8	783.4
45°	771.8	768.0	754.8	752.5	754.0
47.5°	737.8	733.9	722.3	716.9	719.2
50°	702.9	698.3	687.4	682.8	685.9
52.5°	663.4	661.1	652.6	645.6	648.0
55°	625.5	620.1	613.9	606.2	610.8
57.5°	588.4	582.2	570.6	566.7	571.3
60°	548.1	538.0	526.4	523.3	530.3
62.5°	506.3	494.7	480.0	480.7	489.3
65°	457.5	449.8	433.5	438.9	442.0
67.5°	408.0	401.8	386.3	394.0	385.5
70°	360.8	353.0	340.6	330.6	321.3
72.5°	310.4	301.1	293.4	267.1	256.2
75°	253.1	250.8	237.7	211.3	198.2
77.5°	204.4	199.0	181.2	161.0	162.6
80°	150.2	154.1	130.1	139.3	143.2
82.5°	99.1	101.4	107.6	112.3	111.5
85°	55.0	60.4	71.2	71.2	72.8
87.5°	20.9	27.1	31.0	31.7	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)