

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: P393067

Luminaire Tested: **14EN-LD2-33-UNV-L83050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393067  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-52)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14EN-LD2-33-UNV-L83050-W2A-1-U (3000K)  
Description: 1X4 ENCOUNTER, 3300 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3251.9 lumens  
Efficiency: N/A  
Efficacy: 102.9 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

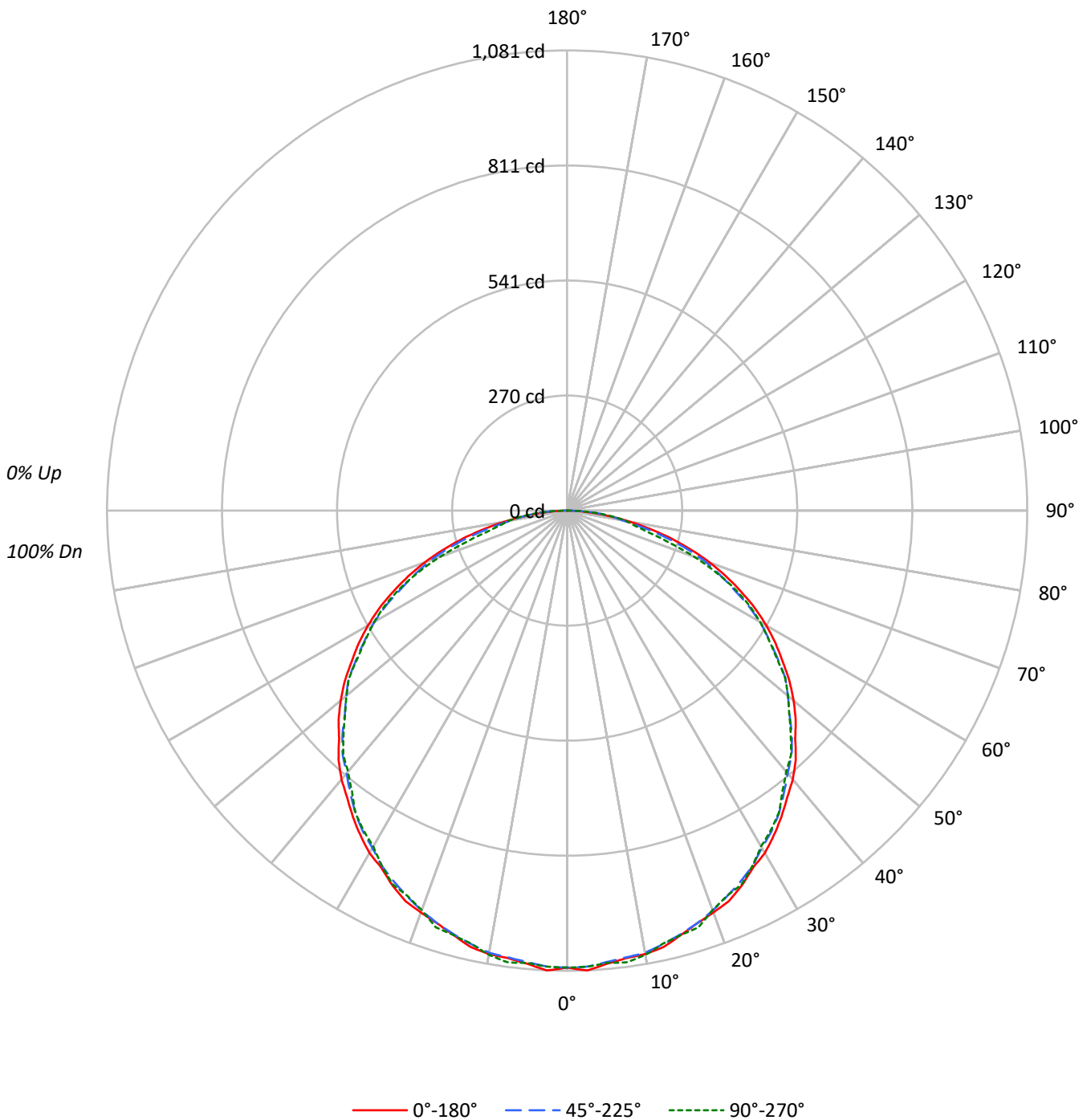
Input Watts (W): 31.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	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	34	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°	2889	2889	2889
5°	2887	2876	2881
10°	2890	2882	2896
15°	2876	2870	2876
20°	2877	2863	2860
25°	2884	2857	2878
30°	2886	2843	2831
35°	2883	2851	2848
40°	2896	2831	2813
45°	2883	2842	2827
50°	2908	2834	2834
55°	2899	2825	2811
60°	2907	2812	2817
65°	2869	2719	2763
70°	2803	2686	2508
75°	2629	2445	2046
80°	2303	2042	2180
85°	1701	2186	2186



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.6	3.1
10°-20°	291.7	9.0
20°-30°	444.8	13.7
30°-40°	543.2	16.7
40°-50°	577.9	17.8
50°-60°	542.6	16.7
60°-70°	431.1	13.3
70°-80°	245.1	7.5
80°-90°	73.9	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°	838.1	25.8
0°-40°	1381.2	42.5
0°-60°	2501.8	76.9
0°-90°	3251.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3251.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1074	1074	1074	1074	1074	
5°	1069	1069	1065	1070	1067	102
15°	1032	1036	1030	1034	1032	292
25°	971	969	962	963	969	447
35°	878	873	868	864	867	550
45°	758	757	747	745	743	587
55°	618	614	602	601	599	554
65°	451	444	427	434	434	446
75°	253	246	235	207	197	266
85°	55	60	71	69	71	68
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1073.5	1073.5	1073.5	1073.5	1073.5
2.5°	1081.4	1073.5	1072.5	1073.5	1072.5
5°	1068.6	1068.6	1064.6	1070.5	1066.6
7.5°	1060.7	1064.6	1058.7	1064.6	1070.5
10°	1057.7	1056.8	1054.8	1053.8	1059.7
12.5°	1049.9	1045.0	1043.0	1045.9	1042.0
15°	1032.2	1036.1	1030.2	1034.1	1032.2
17.5°	1016.4	1021.3	1016.4	1018.4	1026.3
20°	1004.6	1005.6	999.7	1000.7	998.7
22.5°	992.8	984.9	981.0	982.0	980.0
25°	971.2	969.2	962.3	963.3	969.2
27.5°	945.6	947.5	941.6	940.7	941.6
30°	928.8	923.9	915.1	916.1	911.1
32.5°	904.2	898.3	893.4	888.5	890.5
35°	877.7	872.8	867.8	863.9	866.9
37.5°	849.1	846.2	836.4	835.4	830.5
40°	824.5	815.7	805.9	802.9	800.9
42.5°	795.0	790.1	780.3	775.4	778.3
45°	757.6	756.7	746.8	744.8	742.9
47.5°	728.1	721.2	708.4	709.4	707.5
50°	694.7	688.8	677.0	673.0	677.0
52.5°	658.3	655.3	646.5	642.5	645.5
55°	617.9	614.0	602.2	601.2	599.2
57.5°	580.5	574.6	561.8	557.9	559.9
60°	540.2	534.3	522.5	516.6	523.5
62.5°	497.9	490.0	477.2	478.2	482.1
65°	450.6	443.8	427.0	433.9	433.9
67.5°	404.4	397.5	383.7	383.7	377.8
70°	356.2	347.3	341.4	327.7	318.8
72.5°	305.0	296.2	289.3	265.7	252.9
75°	252.9	246.0	235.2	206.6	196.8
77.5°	198.8	196.8	180.1	158.4	161.4
80°	148.6	151.5	131.8	139.7	140.7
82.5°	101.3	101.3	104.3	110.2	110.2
85°	55.1	60.0	70.8	68.9	70.8
87.5°	20.7	29.5	32.5	30.5	30.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)