

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: P393060

Luminaire Tested: **14EN-LD2-33-UNV-L82765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393060  
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-L82765-W2A-1-U (3500K)  
Description: 1X4 ENCOUNTER, 3300 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3130.2 lumens  
Efficiency: N/A  
Efficacy: 100.3 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

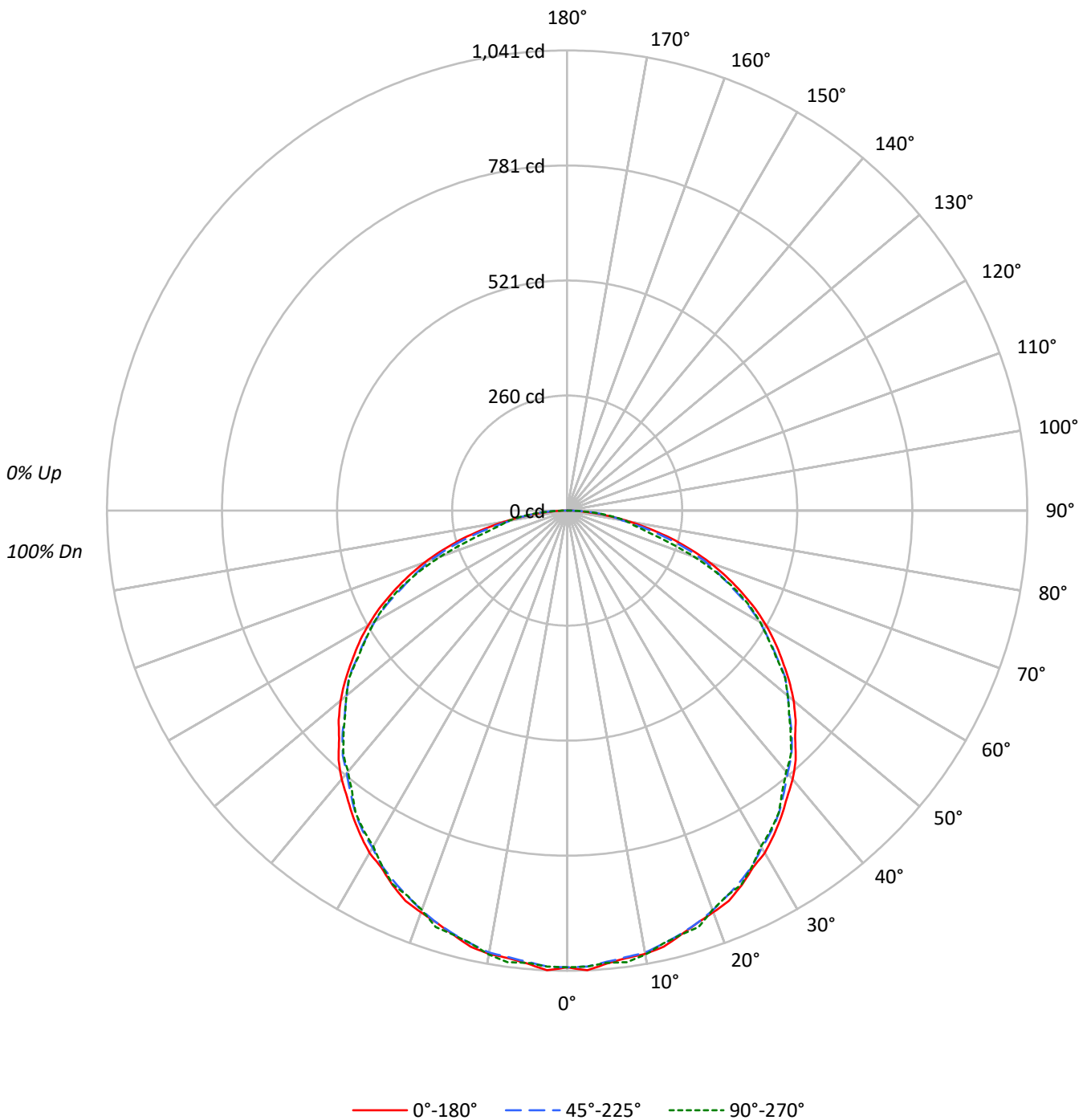
Input Watts (W): 31.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2781	2781	2781
5°	2779	2768	2773
10°	2782	2774	2787
15°	2768	2763	2768
20°	2769	2756	2753
25°	2776	2750	2770
30°	2778	2737	2725
35°	2775	2744	2741
40°	2788	2725	2708
45°	2775	2736	2721
50°	2799	2728	2728
55°	2791	2719	2706
60°	2799	2707	2712
65°	2762	2617	2660
70°	2698	2585	2415
75°	2531	2354	1969
80°	2216	1967	2098
85°	1636	2106	2106



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.8	3.1
10°-20°	280.7	9.0
20°-30°	428.2	13.7
30°-40°	522.8	16.7
40°-50°	556.3	17.8
50°-60°	522.3	16.7
60°-70°	415.0	13.3
70°-80°	235.9	7.5
80°-90°	71.1	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°	806.7	25.8
0°-40°	1329.5	42.5
0°-60°	2408.1	76.9
0°-90°	3130.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3130.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1033	1033	1033	1033	1033	
5°	1029	1029	1025	1030	1027	98
15°	994	997	992	995	994	281
25°	935	933	926	927	933	431
35°	845	840	835	832	834	529
45°	729	728	719	717	715	565
55°	595	591	580	579	577	533
65°	434	427	411	418	418	429
75°	243	237	226	199	189	256
85°	53	58	68	66	68	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1033.3	1033.3	1033.3	1033.3	1033.3
2.5°	1040.9	1033.3	1032.4	1033.3	1032.4
5°	1028.6	1028.6	1024.8	1030.5	1026.7
7.5°	1021.0	1024.8	1019.1	1024.8	1030.5
10°	1018.1	1017.2	1015.3	1014.4	1020.0
12.5°	1010.6	1005.8	1003.9	1006.8	1003.0
15°	993.5	997.3	991.6	995.4	993.5
17.5°	978.4	983.1	978.4	980.3	987.8
20°	967.0	968.0	962.3	963.2	961.3
22.5°	955.6	948.1	944.3	945.2	943.3
25°	934.8	932.9	926.3	927.2	932.9
27.5°	910.2	912.1	906.4	905.4	906.4
30°	894.1	889.3	880.8	881.8	877.0
32.5°	870.4	864.7	860.0	855.2	857.1
35°	844.8	840.1	835.4	831.6	834.4
37.5°	817.4	814.5	805.0	804.1	799.4
40°	793.7	785.2	775.7	772.8	771.0
42.5°	765.3	760.5	751.1	746.3	749.2
45°	729.3	728.3	718.9	717.0	715.1
47.5°	700.9	694.2	681.9	682.9	681.0
50°	668.7	663.0	651.6	647.8	651.6
52.5°	633.6	630.8	622.3	618.5	621.3
55°	594.8	591.0	579.6	578.7	576.8
57.5°	558.8	553.1	540.8	537.0	538.9
60°	520.0	514.3	502.9	497.2	503.9
62.5°	479.2	471.7	459.4	460.3	464.1
65°	433.8	427.1	411.0	417.7	417.7
67.5°	389.3	382.6	369.4	369.4	363.7
70°	342.9	334.3	328.6	315.4	306.9
72.5°	293.6	285.1	278.5	255.7	243.4
75°	243.4	236.8	226.4	198.9	189.4
77.5°	191.3	189.4	173.3	152.5	155.3
80°	143.0	145.9	126.9	134.5	135.4
82.5°	97.6	97.6	100.4	106.1	106.1
85°	53.0	57.8	68.2	66.3	68.2
87.5°	19.9	28.4	31.3	29.4	29.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)