

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: P393458

Luminaire Tested: **24EN-LD2-34-UNV-L92765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393458  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-32)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24EN-LD2-34-UNV-L92765-W2A-1-U (2700K)  
Description: 2X4 ENCOUNTER, 3400 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2597.2 lumens  
Efficiency: N/A  
Efficacy: 110.5 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

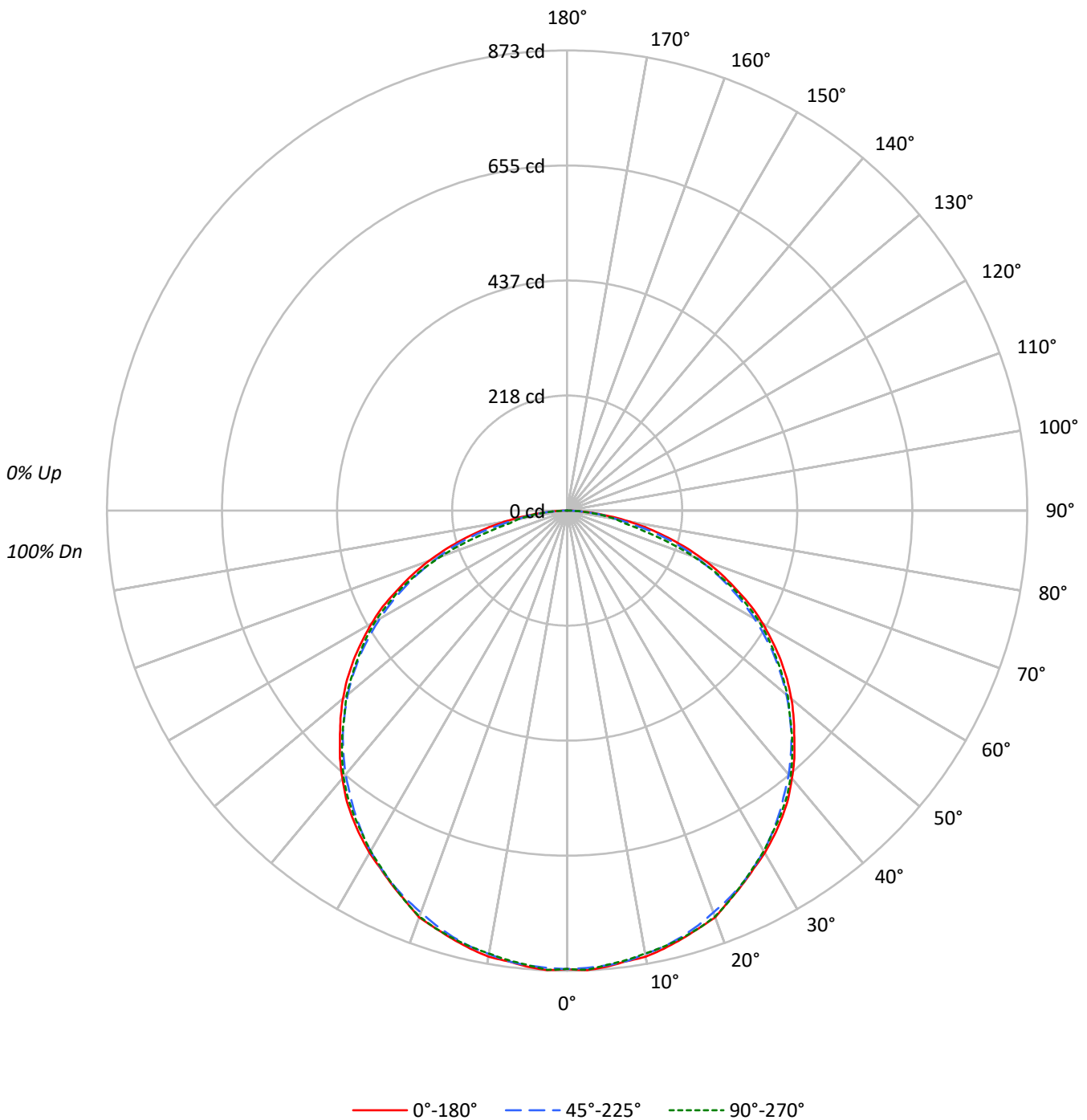
Input Watts (W): 23.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1170	1170	1170
5°	1173	1170	1169
10°	1174	1167	1166
15°	1172	1167	1170
20°	1176	1162	1174
25°	1164	1162	1162
30°	1165	1159	1159
35°	1167	1153	1159
40°	1165	1148	1159
45°	1160	1145	1148
50°	1163	1137	1144
55°	1160	1125	1134
60°	1153	1105	1131
65°	1128	1075	1102
70°	1098	1030	1007
75°	1030	952	792
80°	924	745	733
85°	730	672	614



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.4	3.2
10°-20°	236.6	9.1
20°-30°	361.0	13.9
30°-40°	440.4	17.0
40°-50°	465.9	17.9
50°-60°	431.9	16.6
60°-70°	339.2	13.1
70°-80°	189.2	7.3
80°-90°	50.6	1.9
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°	680.0	26.2
0°-40°	1120.4	43.1
0°-60°	2018.2	77.7
0°-90°	2597.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2597.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	870	870	870	870	870	
5°	868	868	866	865	865	83
15°	841	839	838	835	840	238
25°	784	783	783	781	783	362
35°	711	706	702	700	706	445
45°	609	607	602	602	603	471
55°	495	486	480	479	483	442
65°	354	348	338	340	346	351
75°	198	191	183	160	152	210
85°	47	44	44	40	40	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	869.8	869.8	869.8	869.8	869.8
2.5°	872.8	869.8	868.3	869.8	872.1
5°	868.3	867.6	866.1	865.3	865.3
7.5°	862.3	863.8	862.3	860.1	860.1
10°	859.3	857.8	854.1	853.3	853.3
12.5°	851.1	848.8	847.3	844.3	847.3
15°	841.3	839.1	837.6	835.3	839.8
17.5°	830.8	825.6	825.6	825.6	830.8
20°	821.1	813.5	811.3	812.8	819.6
22.5°	801.5	798.5	797.8	799.3	802.3
25°	784.3	782.8	782.8	781.3	782.8
27.5°	766.3	766.3	764.8	763.3	764.0
30°	749.8	747.5	746.0	744.5	746.0
32.5°	731.0	727.2	724.2	723.5	725.0
35°	710.7	705.5	701.7	700.2	705.5
37.5°	689.0	681.5	677.0	677.0	684.5
40°	663.4	655.2	653.7	652.9	659.7
42.5°	637.9	631.9	628.2	628.9	631.9
45°	609.4	607.2	601.9	601.9	603.4
47.5°	583.1	580.1	572.6	574.1	572.6
50°	555.4	550.1	543.4	541.1	546.4
52.5°	526.1	520.1	511.8	510.3	514.8
55°	494.6	486.3	479.6	478.8	483.3
57.5°	461.6	453.3	445.0	445.0	452.6
60°	428.5	420.3	410.5	410.5	420.3
62.5°	394.0	385.0	374.5	376.8	382.8
65°	354.2	347.5	337.7	340.0	346.0
67.5°	317.5	310.0	299.5	302.5	302.5
70°	279.2	269.4	261.9	257.4	255.9
72.5°	238.7	230.4	225.2	208.6	204.1
75°	198.1	190.6	183.1	159.9	152.4
77.5°	159.1	153.9	138.8	114.1	111.1
80°	119.3	117.1	96.1	94.6	94.6
82.5°	81.1	79.6	72.0	68.3	67.5
85°	47.3	43.5	43.5	40.5	39.8
87.5°	16.5	17.3	18.8	18.0	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)