

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: P393459

Luminaire Tested: **24EN-LD2-34-UNV-L92765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393459  
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 (3000K)  
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: 2679.1 lumens  
Efficiency: N/A  
Efficacy: 113.5 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

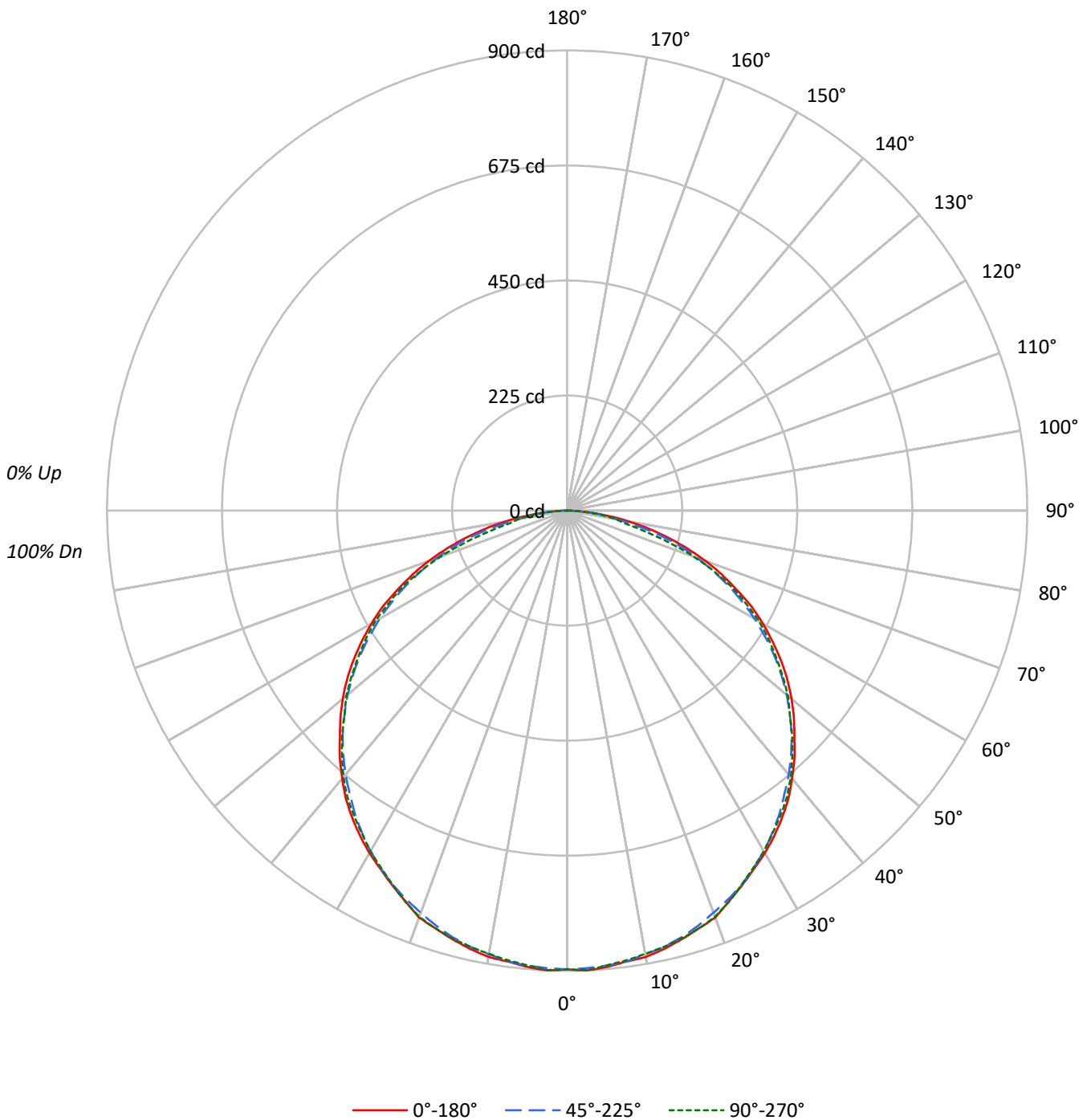
Input Watts (W): 23.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1207	1207	1207
5°	1210	1207	1206
10°	1211	1204	1203
15°	1209	1204	1207
20°	1213	1198	1210
25°	1201	1199	1199
30°	1202	1196	1196
35°	1204	1189	1195
40°	1202	1184	1195
45°	1196	1181	1184
50°	1199	1173	1180
55°	1197	1160	1170
60°	1189	1140	1167
65°	1163	1109	1136
70°	1133	1063	1039
75°	1063	982	817
80°	954	768	755
85°	753	693	633



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.0	3.2
10°-20°	244.1	9.1
20°-30°	372.3	13.9
30°-40°	454.3	17.0
40°-50°	480.6	17.9
50°-60°	445.5	16.6
60°-70°	349.9	13.1
70°-80°	195.2	7.3
80°-90°	52.2	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°	701.4	26.2
0°-40°	1155.7	43.1
0°-60°	2081.8	77.7
0°-90°	2679.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2679.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	897	897	897	897	897	
5°	896	895	893	893	893	85
15°	868	866	864	862	866	245
25°	809	807	807	806	807	374
35°	733	728	724	722	728	459
45°	629	626	621	621	622	486
55°	510	502	495	494	499	456
65°	365	358	348	351	357	362
75°	204	197	189	165	157	216
85°	49	45	45	42	41	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	897.2	897.2	897.2	897.2	897.2
2.5°	900.3	897.2	895.7	897.2	899.6
5°	895.7	894.9	893.4	892.6	892.6
7.5°	889.5	891.1	889.5	887.2	887.2
10°	886.4	884.9	881.0	880.2	880.2
12.5°	877.9	875.6	874.0	870.9	874.0
15°	867.8	865.5	864.0	861.6	866.3
17.5°	857.0	851.6	851.6	851.6	857.0
20°	846.9	839.2	836.9	838.4	845.4
22.5°	826.8	823.7	822.9	824.5	827.6
25°	809.0	807.4	807.4	805.9	807.4
27.5°	790.4	790.4	788.9	787.3	788.1
30°	773.4	771.1	769.5	768.0	769.5
32.5°	754.0	750.2	747.1	746.3	747.8
35°	733.1	727.7	723.8	722.3	727.7
37.5°	710.7	702.9	698.3	698.3	706.0
40°	684.4	675.8	674.3	673.5	680.5
42.5°	658.0	651.8	648.0	648.7	651.8
45°	628.6	626.3	620.9	620.9	622.4
47.5°	601.5	598.4	590.7	592.2	590.7
50°	572.9	567.5	560.5	558.2	563.6
52.5°	542.7	536.5	528.0	526.4	531.1
55°	510.2	501.7	494.7	493.9	498.6
57.5°	476.1	467.6	459.1	459.1	466.8
60°	442.0	433.5	423.5	423.5	433.5
62.5°	406.4	397.1	386.3	388.6	394.8
65°	365.4	358.4	348.4	350.7	356.9
67.5°	327.5	319.7	308.9	312.0	312.0
70°	288.0	277.9	270.2	265.5	264.0
72.5°	246.2	237.7	232.2	215.2	210.6
75°	204.4	196.6	188.9	164.9	157.2
77.5°	164.1	158.7	143.2	117.7	114.6
80°	123.1	120.8	99.1	97.5	97.5
82.5°	83.6	82.1	74.3	70.4	69.7
85°	48.8	44.9	44.9	41.8	41.0
87.5°	17.0	17.8	19.4	18.6	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)