

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: P393319

Luminaire Tested: **22EN-LD2-34-UNV-L82765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393319  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22EN-LD2-34-UNV-L82765-W2A-1-U (5000K)  
Description: 2X2 ENCOUNTER, 3400 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3292.9 lumens  
Efficiency: N/A  
Efficacy: 129.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

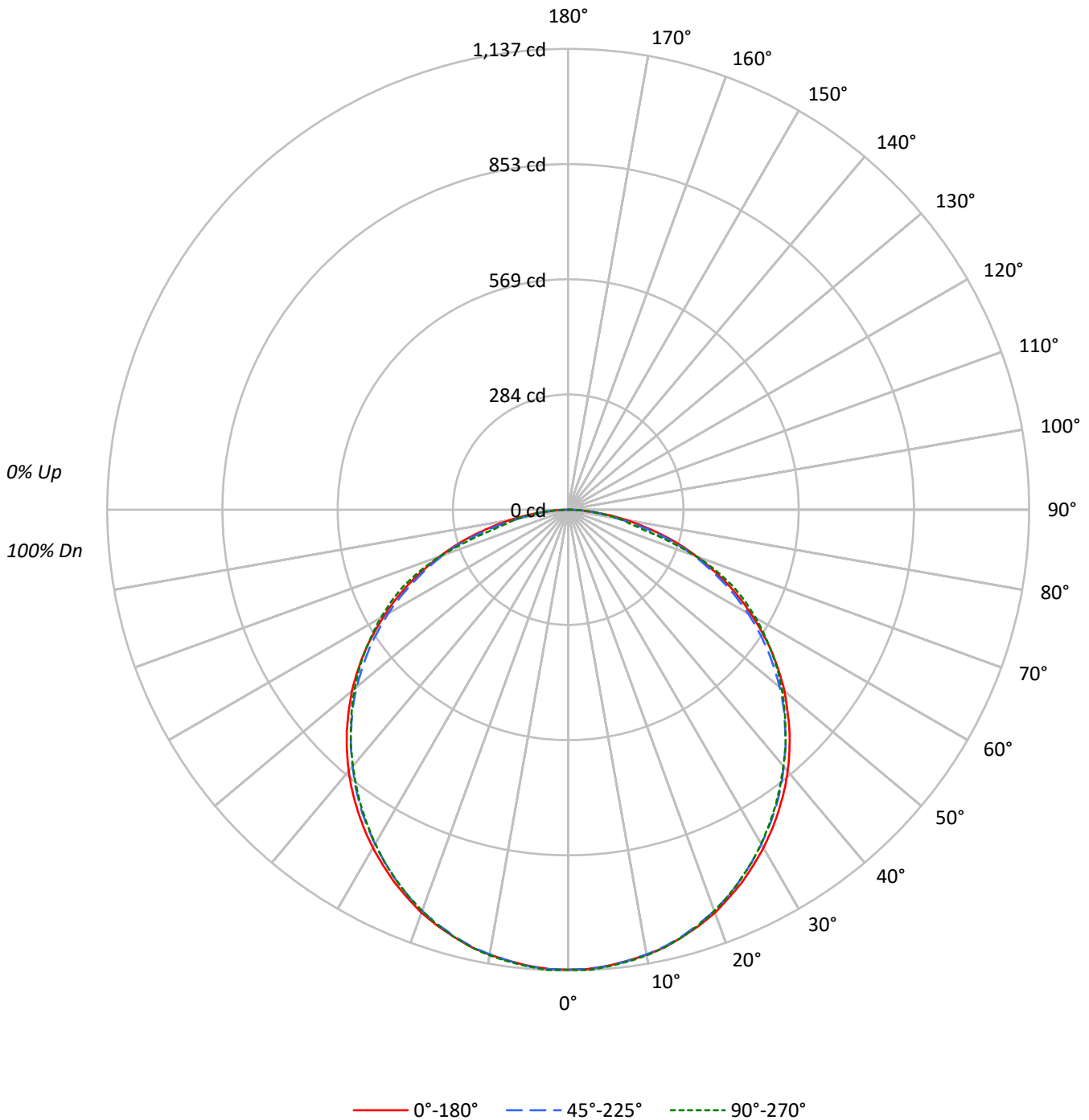
Input Watts (W): 25.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	46	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

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

	0°	45°	90°
0°	3054	3054	3054
5°	3051	3053	3056
10°	3046	3044	3052
15°	3039	3034	3039
20°	3030	3017	3017
25°	3011	2988	2988
30°	2993	2960	2957
35°	2975	2937	2927
40°	2958	2904	2901
45°	2938	2880	2884
50°	2915	2850	2879
55°	2879	2811	2875
60°	2822	2760	2873
65°	2758	2678	2862
70°	2652	2592	2652
75°	2486	2347	2007
80°	2232	1875	2008
85°	1661	1689	1661



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.3	3.3
10°-20°	307.4	9.3
20°-30°	464.6	14.1
30°-40°	560.4	17.0
40°-50°	586.9	17.8
50°-60°	541.1	16.4
60°-70°	424.8	12.9
70°-80°	237.0	7.2
80°-90°	63.3	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°	879.4	26.7
0°-40°	1439.8	43.7
0°-60°	2567.8	78.0
0°-90°	3292.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3292.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1135	1135	1135	1135	1135	
5°	1129	1128	1130	1130	1131	107
15°	1091	1089	1089	1089	1091	308
25°	1014	1010	1006	1005	1006	467
35°	906	902	894	889	891	567
45°	772	766	757	754	758	595
55°	614	607	599	603	613	548
65°	433	426	421	435	449	428
75°	239	234	226	203	193	253
85°	54	52	55	53	54	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1135.0	1135.0	1135.0	1135.0	<i>1135.0</i>
2.5°	<i>1134.1</i>	<i>1133.1</i>	<i>1134.1</i>	<i>1135.0</i>	<i>1137.0</i>
5°	1129.3	1128.3	1130.2	1130.2	<i>1131.2</i>
7.5°	1122.6	1121.6	1122.6	1123.5	<i>1124.5</i>
10°	1114.9	1113.9	1113.9	1114.9	<i>1116.8</i>
12.5°	1105.3	1103.4	1103.4	1103.4	<i>1105.3</i>
15°	1090.9	1088.9	1088.9	1088.9	<i>1090.9</i>
17.5°	1075.5	1073.6	1071.7	1071.7	<i>1073.6</i>
20°	1058.2	1055.3	1053.4	1052.5	<i>1053.4</i>
22.5°	1036.1	1034.2	1031.3	1029.4	<i>1031.3</i>
25°	1014.0	1010.2	1006.4	1005.4	<i>1006.4</i>
27.5°	989.1	985.2	980.4	978.5	<i>980.4</i>
30°	963.2	958.4	952.6	949.7	<i>951.6</i>
32.5°	935.3	931.5	923.8	920.9	<i>921.9</i>
35°	905.5	901.7	894.0	889.2	<i>891.1</i>
37.5°	874.8	870.0	861.4	856.6	<i>858.5</i>
40°	842.2	836.4	826.8	823.0	<i>825.8</i>
42.5°	807.6	802.8	793.2	789.3	<i>793.2</i>
45°	772.1	766.3	756.7	753.8	<i>757.7</i>
47.5°	733.6	729.8	720.2	719.2	<i>723.1</i>
50°	696.2	689.5	680.8	681.8	<i>687.6</i>
52.5°	654.9	649.1	639.5	643.4	<i>651.1</i>
55°	613.6	606.9	599.2	603.1	<i>612.7</i>
57.5°	569.4	564.6	556.0	561.8	<i>573.3</i>
60°	524.3	520.5	512.8	522.4	<i>533.9</i>
62.5°	480.1	473.4	466.7	479.2	<i>492.6</i>
65°	433.1	426.4	420.6	435.0	<i>449.4</i>
67.5°	384.1	379.3	374.5	386.0	<i>395.6</i>
70°	337.1	332.3	329.4	331.3	<i>337.1</i>
72.5°	289.0	284.2	281.4	270.8	<i>264.1</i>
75°	239.1	234.3	225.7	202.6	<i>193.0</i>
77.5°	190.1	187.3	170.0	149.8	<i>152.7</i>
80°	144.0	139.2	121.0	124.8	<i>129.6</i>
82.5°	97.9	93.1	91.2	88.3	<i>89.3</i>
85°	53.8	51.9	54.7	52.8	<i>53.8</i>
87.5°	21.1	22.1	24.0	23.0	<i>23.0</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)