

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: P393318

Luminaire Tested: **22EN-LD2-34-UNV-L82765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393318  
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 (4500K)  
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: 3298.2 lumens  
Efficiency: N/A  
Efficacy: 129.3 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

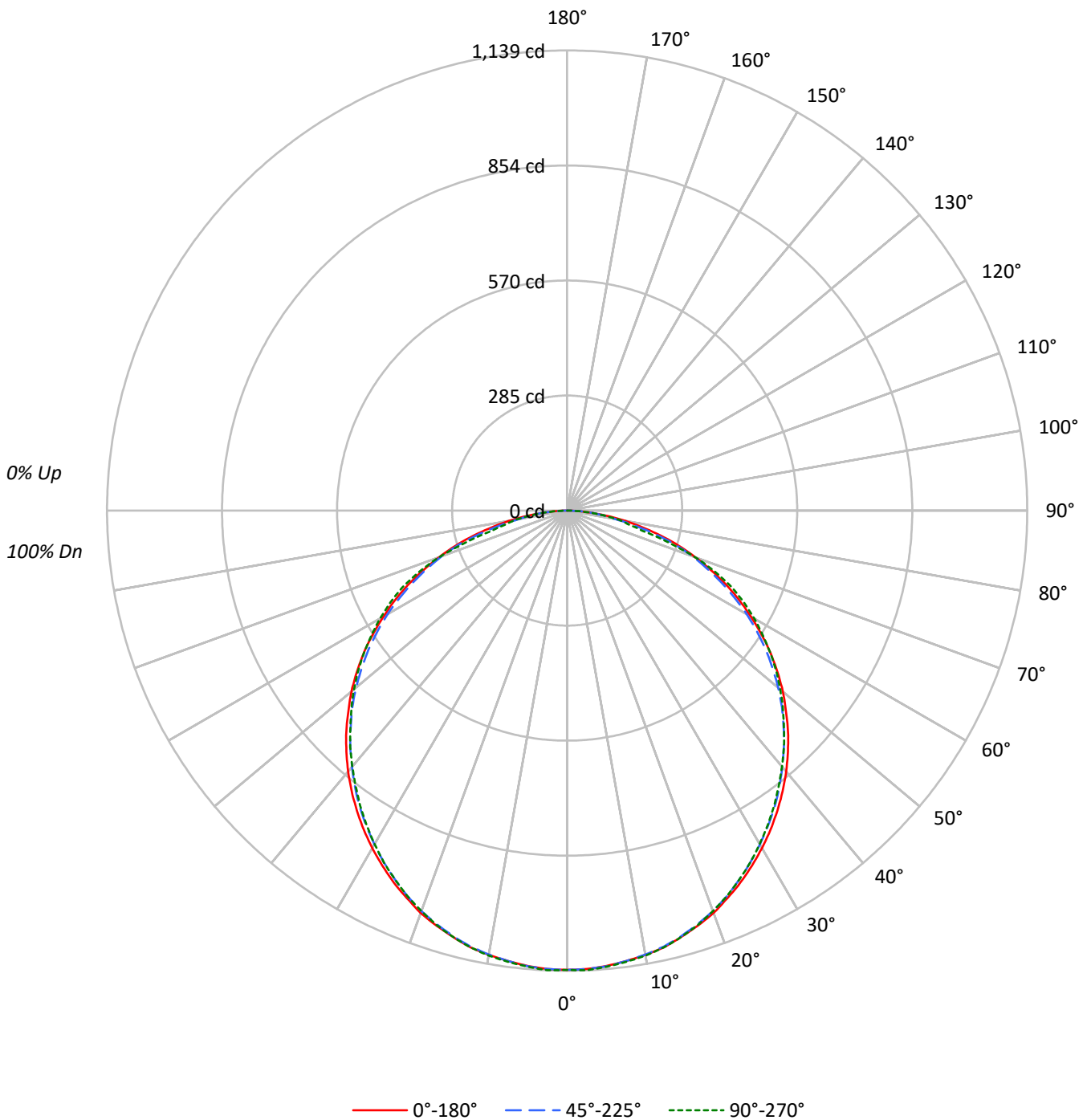
Input Watts (W): 25.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3059	3059	3059
5°	3055	3058	3061
10°	3051	3049	3057
15°	3044	3039	3044
20°	3035	3021	3021
25°	3016	2993	2993
30°	2998	2965	2962
35°	2980	2942	2932
40°	2963	2909	2906
45°	2943	2884	2888
50°	2919	2855	2883
55°	2883	2816	2879
60°	2827	2764	2878
65°	2762	2683	2866
70°	2656	2596	2656
75°	2490	2350	2010
80°	2236	1878	2011
85°	1664	1692	1664



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.5	3.3
10°-20°	307.9	9.3
20°-30°	465.4	14.1
30°-40°	561.3	17.0
40°-50°	587.9	17.8
50°-60°	542.0	16.4
60°-70°	425.5	12.9
70°-80°	237.3	7.2
80°-90°	63.5	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°	880.8	26.7
0°-40°	1442.1	43.7
0°-60°	2572.0	78.0
0°-90°	3298.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3298.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1137	1137	1137	1137	1137	
5°	1131	1130	1132	1132	1133	108
15°	1093	1091	1091	1091	1093	309
25°	1016	1012	1008	1007	1008	468
35°	907	903	896	891	893	568
45°	773	768	758	755	759	596
55°	615	608	600	604	614	549
65°	434	427	421	436	450	428
75°	240	235	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°	1136.9	1136.9	1136.9	1136.9	<i>1136.9</i>
2.5°	<i>1135.9</i>	<i>1135.0</i>	<i>1135.9</i>	<i>1136.9</i>	<i>1138.8</i>
5°	1131.1	1130.1	1132.1	1132.1	<i>1133.0</i>
7.5°	1124.4	1123.4	1124.4	1125.3	<i>1126.3</i>
10°	1116.7	1115.7	1115.7	1116.7	<i>1118.6</i>
12.5°	1107.1	1105.1	1105.1	1105.1	<i>1107.1</i>
15°	1092.6	1090.7	1090.7	1090.7	<i>1092.6</i>
17.5°	1077.2	1075.3	1073.4	1073.4	<i>1075.3</i>
20°	1059.9	1057.1	1055.1	1054.2	<i>1055.1</i>
22.5°	1037.8	1035.9	1033.0	1031.1	<i>1033.0</i>
25°	1015.7	1011.8	1008.0	1007.0	<i>1008.0</i>
27.5°	990.7	986.8	982.0	980.1	<i>982.0</i>
30°	964.7	959.9	954.1	951.2	<i>953.2</i>
32.5°	936.8	933.0	925.3	922.4	<i>923.4</i>
35°	907.0	903.2	895.5	890.7	<i>892.6</i>
37.5°	876.2	871.4	862.8	858.0	<i>859.9</i>
40°	843.5	837.8	828.1	824.3	<i>827.2</i>
42.5°	808.9	804.1	794.5	790.6	<i>794.5</i>
45°	773.3	767.5	757.9	755.0	<i>758.9</i>
47.5°	734.8	731.0	721.4	720.4	<i>724.3</i>
50°	697.3	690.6	681.9	682.9	<i>688.7</i>
52.5°	656.0	650.2	640.6	644.4	<i>652.1</i>
55°	614.6	607.9	600.2	604.0	<i>613.6</i>
57.5°	570.4	565.6	556.9	562.7	<i>574.2</i>
60°	525.2	521.3	513.6	523.2	<i>534.8</i>
62.5°	480.9	474.2	467.4	480.0	<i>493.4</i>
65°	433.8	427.1	421.3	435.7	<i>450.1</i>
67.5°	384.7	379.9	375.1	386.7	<i>396.3</i>
70°	337.6	332.8	329.9	331.8	<i>337.6</i>
72.5°	289.5	284.7	281.8	271.2	<i>264.5</i>
75°	239.5	234.7	226.0	202.9	<i>193.3</i>
77.5°	190.4	187.6	170.2	150.0	<i>152.9</i>
80°	144.3	139.5	121.2	125.0	<i>129.8</i>
82.5°	98.1	93.3	91.4	88.5	<i>89.5</i>
85°	53.9	51.9	54.8	52.9	<i>53.9</i>
87.5°	21.2	22.1	24.0	23.1	<i>23.1</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)