

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: P393317

Luminaire Tested: **22EN-LD2-34-UNV-L82765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393317  
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 (4000K)  
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: 3203.3 lumens  
Efficiency: N/A  
Efficacy: 125.1 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

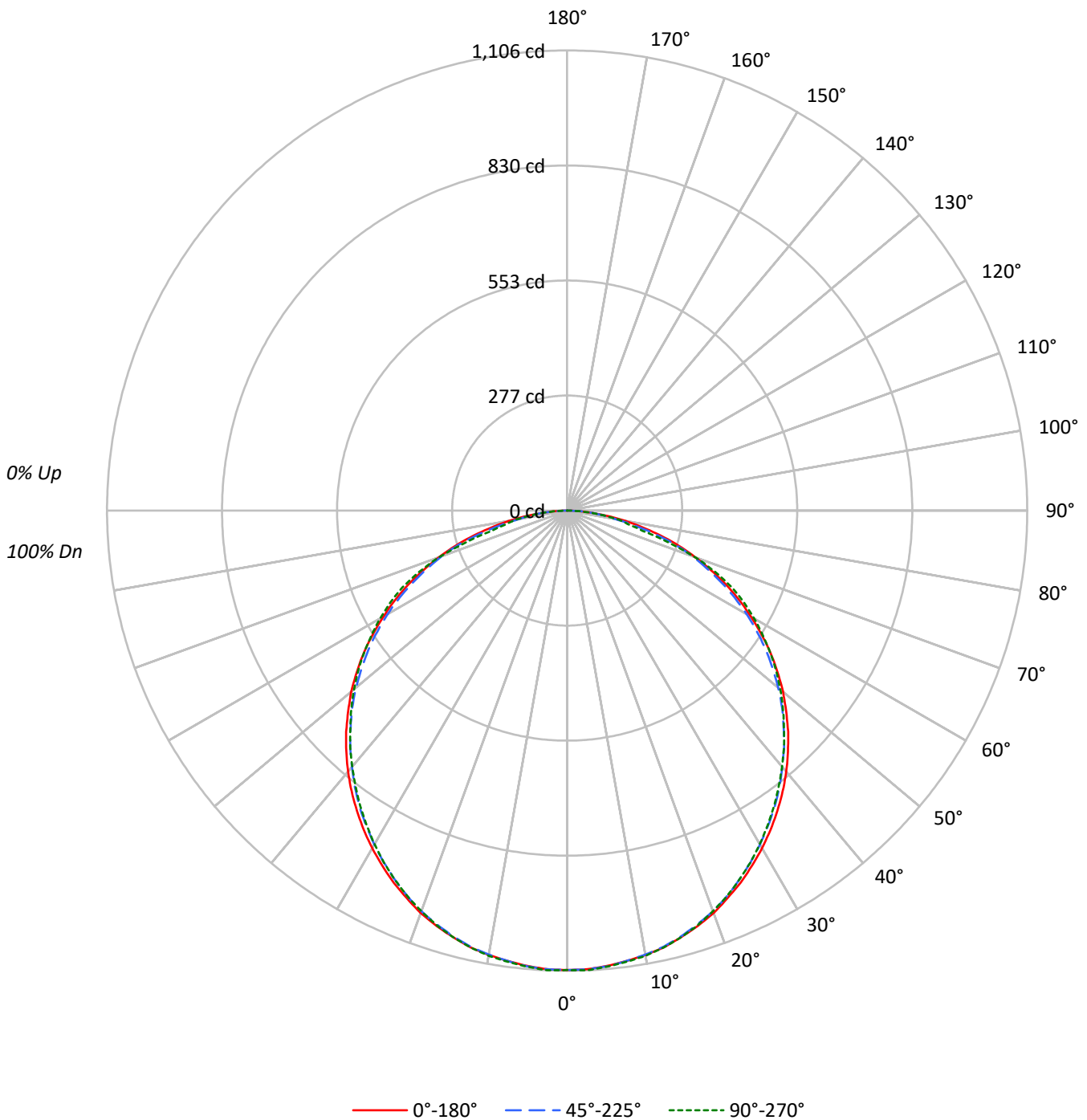
Input Watts (W): 25.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2971	2971	2971
5°	2968	2970	2972
10°	2963	2961	2969
15°	2956	2951	2956
20°	2948	2935	2935
25°	2929	2907	2907
30°	2911	2880	2876
35°	2894	2857	2848
40°	2878	2825	2822
45°	2858	2801	2805
50°	2835	2773	2800
55°	2800	2735	2796
60°	2745	2685	2795
65°	2683	2606	2784
70°	2580	2521	2580
75°	2418	2282	1953
80°	2171	1824	1954
85°	1615	1643	1615



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.4	3.3
10°-20°	299.1	9.3
20°-30°	452.0	14.1
30°-40°	545.1	17.0
40°-50°	570.9	17.8
50°-60°	526.4	16.4
60°-70°	413.2	12.9
70°-80°	230.5	7.2
80°-90°	61.6	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°	855.5	26.7
0°-40°	1400.6	43.7
0°-60°	2497.9	78.0
0°-90°	3203.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3203.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1104	1104	1104	1104	1104	
5°	1099	1098	1100	1100	1100	104
15°	1061	1059	1059	1059	1061	300
25°	986	983	979	978	979	455
35°	881	877	870	865	867	551
45°	751	745	736	733	737	579
55°	597	590	583	587	596	533
65°	421	415	409	423	437	416
75°	233	228	220	197	188	246
85°	52	50	53	51	52	65
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1104.2	1104.2	1104.2	1104.2	1104.2
2.5°	1103.2	1102.3	1103.2	1104.2	1106.0
5°	1098.6	1097.6	1099.5	1099.5	1100.4
7.5°	1092.0	1091.1	1092.0	1092.9	1093.9
10°	1084.5	1083.6	1083.6	1084.5	1086.4
12.5°	1075.2	1073.3	1073.3	1073.3	1075.2
15°	1061.2	1059.3	1059.3	1059.3	1061.2
17.5°	1046.2	1044.4	1042.5	1042.5	1044.4
20°	1029.4	1026.6	1024.8	1023.8	1024.8
22.5°	1007.9	1006.1	1003.3	1001.4	1003.3
25°	986.5	982.7	979.0	978.0	979.0
27.5°	962.2	958.4	953.8	951.9	953.8
30°	936.9	932.3	926.7	923.9	925.7
32.5°	909.9	906.1	898.6	895.8	896.8
35°	880.9	877.2	869.7	865.0	866.9
37.5°	851.0	846.3	837.9	833.3	835.1
40°	819.2	813.6	804.3	800.6	803.4
42.5°	785.6	780.9	771.6	767.9	771.6
45°	751.1	745.4	736.1	733.3	737.0
47.5°	713.7	710.0	700.6	699.7	703.4
50°	677.3	670.7	662.3	663.2	668.8
52.5°	637.1	631.5	622.1	625.9	633.4
55°	596.9	590.4	582.9	586.6	596.0
57.5°	553.9	549.3	540.9	546.5	557.7
60°	510.0	506.3	498.8	508.2	519.4
62.5°	467.1	460.5	454.0	466.1	479.2
65°	421.3	414.8	409.2	423.2	437.2
67.5°	373.7	369.0	364.3	375.5	384.9
70°	327.9	323.2	320.4	322.3	327.9
72.5°	281.2	276.5	273.7	263.4	256.9
75°	232.6	227.9	219.5	197.1	187.8
77.5°	185.0	182.2	165.3	145.7	148.5
80°	140.1	135.5	117.7	121.4	126.1
82.5°	95.3	90.6	88.7	85.9	86.9
85°	52.3	50.4	53.2	51.4	52.3
87.5°	20.6	21.5	23.4	22.4	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)