

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: P393323

Luminaire Tested: **22EN-LD2-34-UNV-L83050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393323
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-L83050-W2A-1-U (3000K)
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: 3374.1 lumens
Efficiency: N/A
Efficacy: 129.8 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

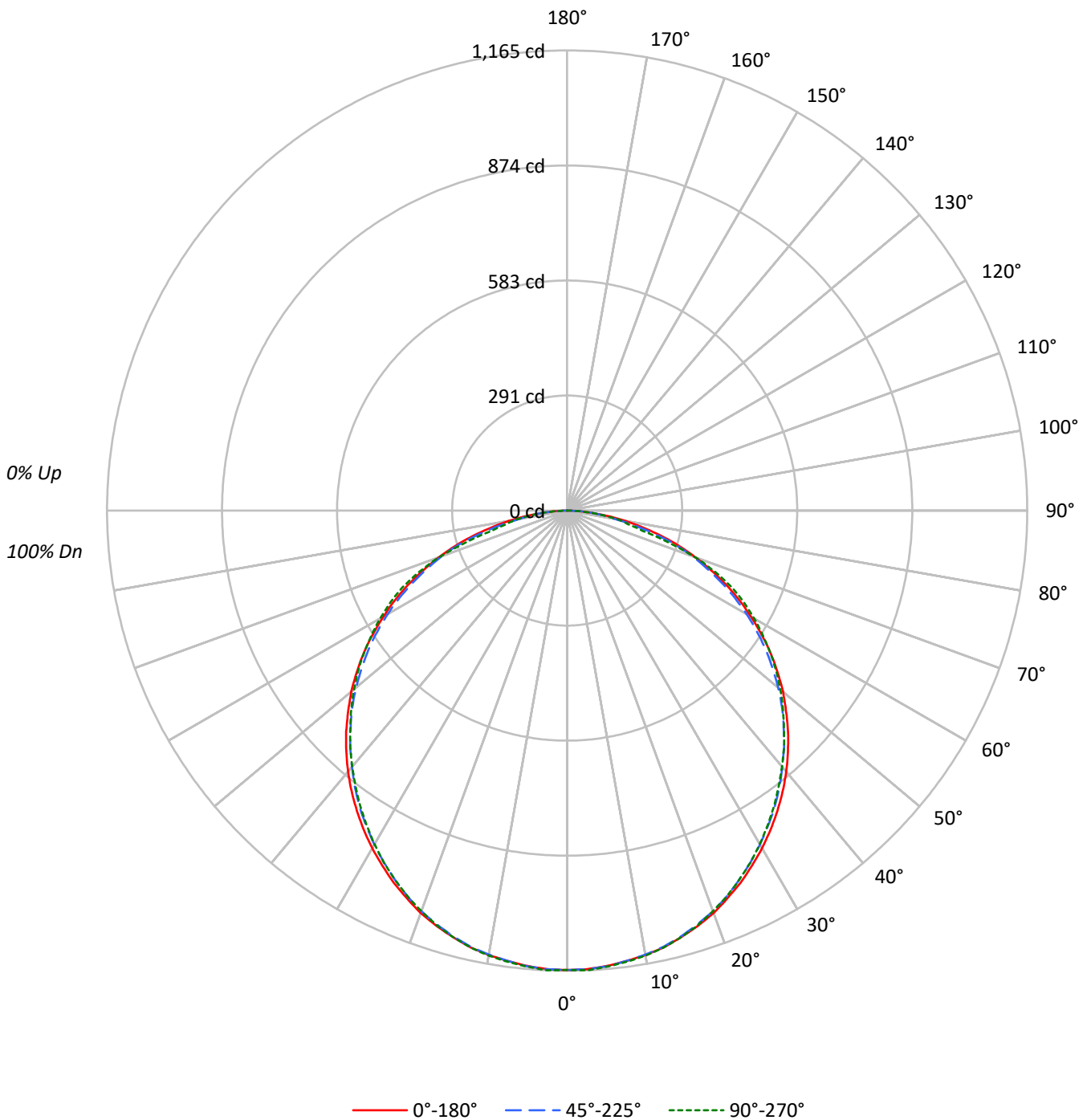
Input Watts (W): 26
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3130	3130	3130
5°	3126	3128	3131
10°	3122	3119	3127
15°	3114	3109	3114
20°	3105	3091	3091
25°	3085	3062	3062
30°	3067	3033	3030
35°	3048	3009	3000
40°	3031	2976	2973
45°	3011	2951	2954
50°	2987	2920	2949
55°	2950	2881	2945
60°	2891	2828	2944
65°	2826	2744	2932
70°	2718	2655	2718
75°	2547	2404	2057
80°	2287	1922	2058
85°	1701	1732	1701



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.0	3.3
10°-20°	315.0	9.3
20°-30°	476.1	14.1
30°-40°	574.2	17.0
40°-50°	601.4	17.8
50°-60°	554.5	16.4
60°-70°	435.2	12.9
70°-80°	242.8	7.2
80°-90°	64.9	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°	901.1	26.7
0°-40°	1475.3	43.7
0°-60°	2631.1	78.0
0°-90°	3374.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3374.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1163	1163	1163	1163	1163	
5°	1157	1156	1158	1158	1159	110
15°	1118	1116	1116	1116	1118	316
25°	1039	1035	1031	1030	1031	479
35°	928	924	916	911	913	581
45°	791	785	775	772	776	610
55°	629	622	614	618	628	561
65°	444	437	431	446	460	438
75°	245	240	231	208	198	259
85°	55	53	56	54	55	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1163.0	1163.0	1163.0	1163.0	<i>1163.0</i>
2.5°	<i>1162.0</i>	<i>1161.1</i>	<i>1162.0</i>	<i>1163.0</i>	<i>1165.0</i>
5°	1157.1	1156.1	1158.1	1158.1	<i>1159.1</i>
7.5°	1150.2	1149.2	1150.2	1151.2	<i>1152.2</i>
10°	1142.4	1141.4	1141.4	1142.4	<i>1144.3</i>
12.5°	1132.5	1130.6	1130.6	1130.6	<i>1132.5</i>
15°	1117.8	1115.8	1115.8	1115.8	<i>1117.8</i>
17.5°	1102.0	1100.1	1098.1	1098.1	<i>1100.1</i>
20°	1084.3	1081.4	1079.4	1078.4	<i>1079.4</i>
22.5°	1061.7	1059.7	1056.8	1054.8	<i>1056.8</i>
25°	1039.0	1035.1	1031.2	1030.2	<i>1031.2</i>
27.5°	1013.5	1009.5	1004.6	1002.6	<i>1004.6</i>
30°	986.9	982.0	976.1	973.1	<i>975.1</i>
32.5°	958.4	954.4	946.6	943.6	<i>944.6</i>
35°	927.9	923.9	916.1	911.1	<i>913.1</i>
37.5°	896.4	891.5	882.6	877.7	<i>879.6</i>
40°	862.9	857.0	847.2	843.2	<i>846.2</i>
42.5°	827.5	822.6	812.7	808.8	<i>812.7</i>
45°	791.1	785.2	775.4	772.4	<i>776.3</i>
47.5°	751.7	747.8	738.0	737.0	<i>740.9</i>
50°	713.4	706.5	697.6	698.6	<i>704.5</i>
52.5°	671.1	665.1	655.3	659.2	<i>667.1</i>
55°	628.7	621.9	614.0	617.9	<i>627.8</i>
57.5°	583.5	578.6	569.7	575.6	<i>587.4</i>
60°	537.2	533.3	525.4	535.3	<i>547.1</i>
62.5°	492.0	485.1	478.2	491.0	<i>504.8</i>
65°	443.8	436.9	431.0	445.7	<i>460.5</i>
67.5°	393.6	388.7	383.7	395.5	<i>405.4</i>
70°	345.4	340.4	337.5	339.5	<i>345.4</i>
72.5°	296.2	291.2	288.3	277.5	<i>270.6</i>
75°	245.0	240.1	231.2	207.6	<i>197.8</i>
77.5°	194.8	191.9	174.2	153.5	<i>156.4</i>
80°	147.6	142.7	124.0	127.9	<i>132.8</i>
82.5°	100.4	95.4	93.5	90.5	<i>91.5</i>
85°	55.1	53.1	56.1	54.1	<i>55.1</i>
87.5°	21.6	22.6	24.6	23.6	<i>23.6</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)