

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: P393326

Luminaire Tested: **22EN-LD2-34-UNV-L83050-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393326
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 (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: 3490.2 lumens
Efficiency: N/A
Efficacy: 136.9 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

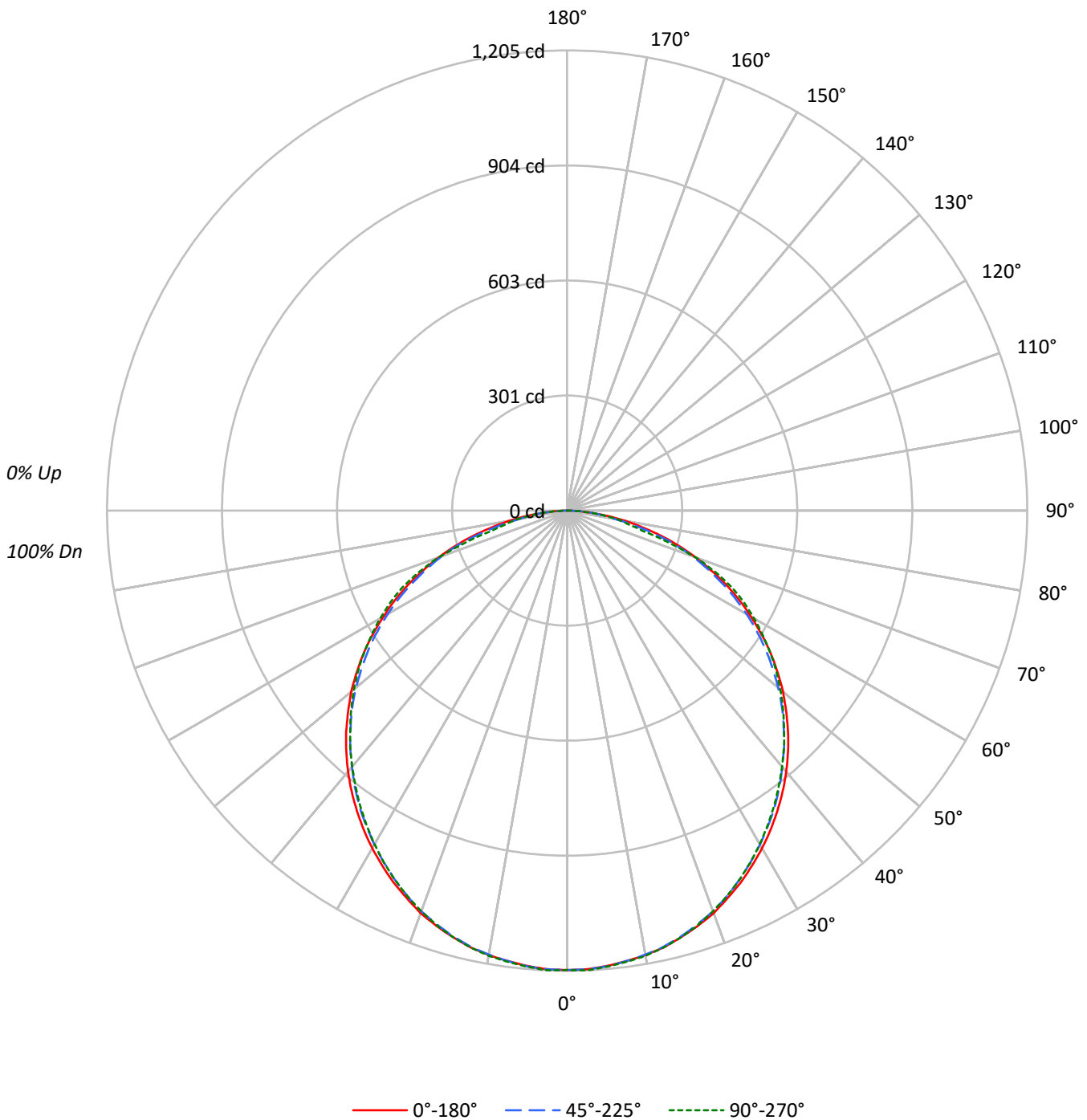
Input Watts (W): 25.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3238	3238	3238
5°	3233	3236	3239
10°	3229	3226	3234
15°	3221	3215	3221
20°	3212	3198	3198
25°	3191	3167	3167
30°	3172	3137	3134
35°	3153	3113	3103
40°	3136	3078	3075
45°	3114	3052	3056
50°	3089	3021	3051
55°	3051	2980	3047
60°	2991	2925	3046
65°	2923	2839	3033
70°	2811	2747	2811
75°	2635	2487	2127
80°	2366	1987	2129
85°	1760	1791	1760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	3.3
10°-20°	325.9	9.3
20°-30°	492.5	14.1
30°-40°	594.0	17.0
40°-50°	622.1	17.8
50°-60°	573.5	16.4
60°-70°	450.2	12.9
70°-80°	251.2	7.2
80°-90°	67.1	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°	932.1	26.7
0°-40°	1526.1	43.7
0°-60°	2721.7	78.0
0°-90°	3490.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3490.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1203	1203	1203	1203	1203	
5°	1197	1196	1198	1198	1199	114
15°	1156	1154	1154	1154	1156	326
25°	1075	1071	1067	1066	1067	495
35°	960	956	948	942	944	601
45°	818	812	802	799	803	631
55°	650	643	635	639	649	580
65°	459	452	446	461	476	453
75°	253	248	239	215	205	268
85°	57	55	58	56	57	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1203.1	1203.1	1203.1	1203.1	1203.1
2.5°	1202.1	1201.0	1202.1	1203.1	1205.1
5°	1197.0	1195.9	1198.0	1198.0	1199.0
7.5°	1189.8	1188.8	1189.8	1190.9	1191.9
10°	1181.7	1180.7	1180.7	1181.7	1183.7
12.5°	1171.5	1169.5	1169.5	1169.5	1171.5
15°	1156.2	1154.2	1154.2	1154.2	1156.2
17.5°	1140.0	1137.9	1135.9	1135.9	1137.9
20°	1121.6	1118.6	1116.6	1115.5	1116.6
22.5°	1098.2	1096.2	1093.1	1091.1	1093.1
25°	1074.8	1070.8	1066.7	1065.7	1066.7
27.5°	1048.4	1044.3	1039.2	1037.2	1039.2
30°	1020.9	1015.8	1009.7	1006.6	1008.7
32.5°	991.4	987.3	979.1	976.1	977.1
35°	959.8	955.7	947.6	942.5	944.5
37.5°	927.2	922.1	913.0	907.9	909.9
40°	892.6	886.5	876.3	872.3	875.3
42.5°	856.0	850.9	840.7	836.7	840.7
45°	818.3	812.2	802.0	799.0	803.1
47.5°	777.6	773.5	763.4	762.4	766.4
50°	737.9	730.8	721.6	722.7	728.8
52.5°	694.2	688.0	677.9	681.9	690.1
55°	650.4	643.3	635.1	639.2	649.4
57.5°	603.6	598.5	589.3	595.4	607.6
60°	555.7	551.7	543.5	553.7	565.9
62.5°	508.9	501.8	494.7	507.9	522.1
65°	459.0	451.9	445.8	461.1	476.3
67.5°	407.1	402.0	397.0	409.2	419.3
70°	357.3	352.2	349.1	351.1	357.3
72.5°	306.4	301.3	298.2	287.0	279.9
75°	253.4	248.3	239.2	214.8	204.6
77.5°	201.5	198.5	180.2	158.8	161.8
80°	152.7	147.6	128.2	132.3	137.4
82.5°	103.8	98.7	96.7	93.6	94.7
85°	57.0	55.0	58.0	56.0	57.0
87.5°	22.4	23.4	25.4	24.4	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)