

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: P393328

Luminaire Tested: **22EN-LD2-34-UNV-L83050-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393328
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 (5700K)
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: 3493.8 lumens
Efficiency: N/A
Efficacy: 137.6 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

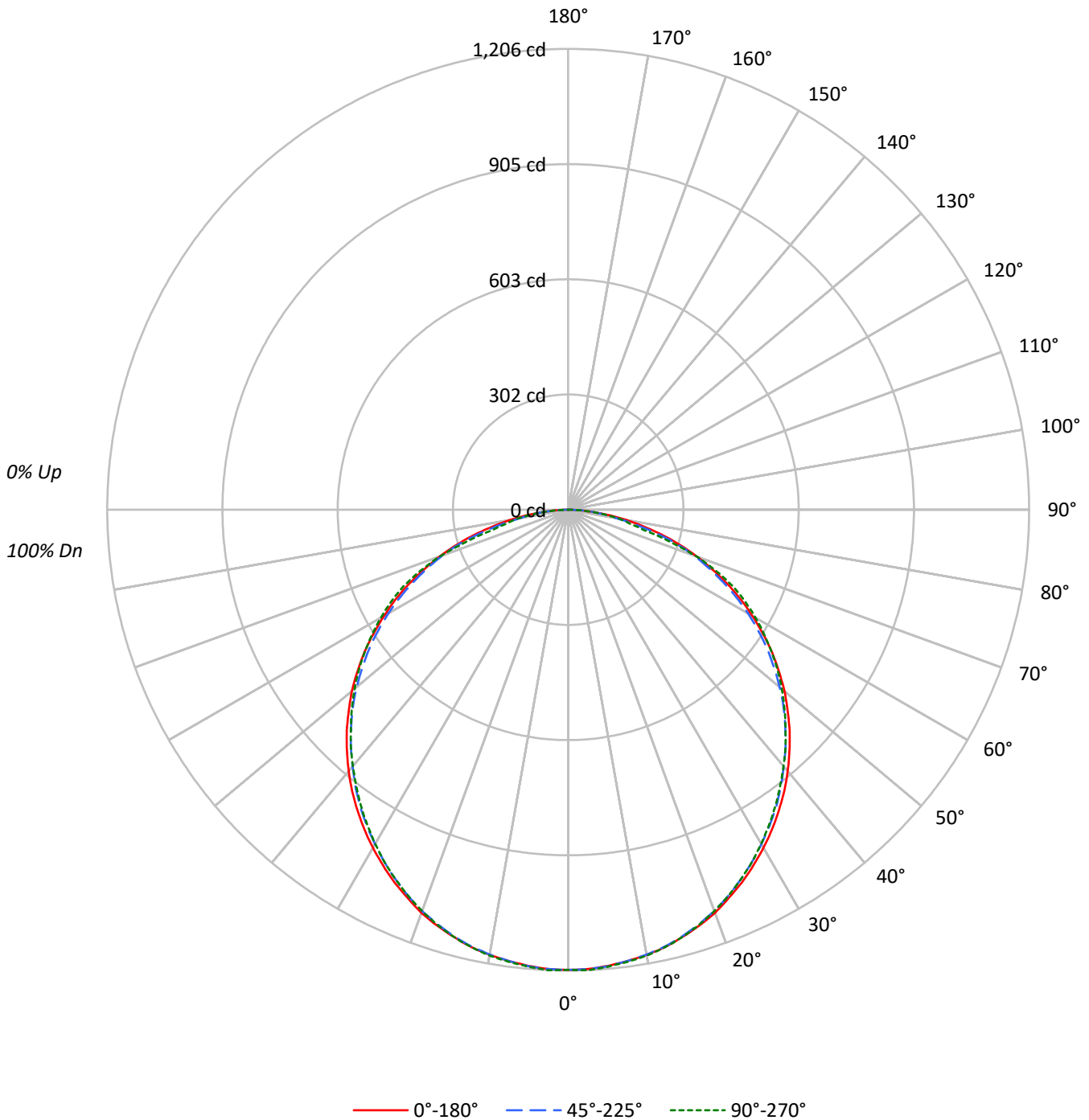
Input Watts (W): 25.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3241	3241	3241
5°	3237	3239	3242
10°	3232	3230	3238
15°	3224	3219	3224
20°	3215	3201	3201
25°	3195	3170	3170
30°	3175	3141	3137
35°	3156	3116	3106
40°	3139	3081	3078
45°	3118	3056	3059
50°	3093	3024	3054
55°	3055	2983	3050
60°	2994	2928	3049
65°	2926	2842	3036
70°	2814	2750	2814
75°	2638	2489	2129
80°	2368	1990	2131
85°	1763	1794	1763



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.9	3.3
10°-20°	326.2	9.3
20°-30°	493.0	14.1
30°-40°	594.6	17.0
40°-50°	622.7	17.8
50°-60°	574.1	16.4
60°-70°	450.7	12.9
70°-80°	251.4	7.2
80°-90°	67.2	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°	933.1	26.7
0°-40°	1527.6	43.7
0°-60°	2724.5	78.0
0°-90°	3493.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3493.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1204	1204	1204	1204	1204	
5°	1198	1197	1199	1199	1200	114
15°	1157	1155	1155	1155	1157	327
25°	1076	1072	1068	1067	1068	496
35°	961	957	949	944	946	601
45°	819	813	803	800	804	632
55°	651	644	636	640	650	581
65°	460	452	446	462	477	454
75°	254	249	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°	1204.3	1204.3	1204.3	1204.3	1204.3
2.5°	1203.3	1202.3	1203.3	1204.3	1206.3
5°	1198.2	1197.2	1199.2	1199.2	1200.2
7.5°	1191.1	1190.0	1191.1	1192.1	1193.1
10°	1182.9	1181.9	1181.9	1182.9	1184.9
12.5°	1172.7	1170.7	1170.7	1170.7	1172.7
15°	1157.4	1155.4	1155.4	1155.4	1157.4
17.5°	1141.1	1139.1	1137.1	1137.1	1139.1
20°	1122.8	1119.7	1117.7	1116.7	1117.7
22.5°	1099.4	1097.3	1094.3	1092.2	1094.3
25°	1075.9	1071.8	1067.8	1066.8	1067.8
27.5°	1049.4	1045.4	1040.3	1038.2	1040.3
30°	1021.9	1016.8	1010.7	1007.7	1009.7
32.5°	992.4	988.3	980.1	977.1	978.1
35°	960.8	956.7	948.6	943.5	945.5
37.5°	928.2	923.1	913.9	908.8	910.9
40°	893.5	887.4	877.2	873.2	876.2
42.5°	856.9	851.8	841.6	837.5	841.6
45°	819.2	813.1	802.9	799.8	803.9
47.5°	778.4	774.3	764.1	763.1	767.2
50°	738.7	731.5	722.4	723.4	729.5
52.5°	694.9	688.8	678.6	682.6	690.8
55°	651.1	643.9	635.8	639.8	650.0
57.5°	604.2	599.1	589.9	596.0	608.3
60°	556.3	552.2	544.1	554.3	566.5
62.5°	509.4	502.3	495.2	508.4	522.7
65°	459.5	452.4	446.3	461.5	476.8
67.5°	407.5	402.5	397.4	409.6	419.8
70°	357.6	352.5	349.5	351.5	357.6
72.5°	306.7	301.6	298.5	287.3	280.2
75°	253.7	248.6	239.4	215.0	204.8
77.5°	201.7	198.7	180.3	158.9	162.0
80°	152.8	147.7	128.4	132.5	137.5
82.5°	103.9	98.8	96.8	93.7	94.8
85°	57.1	55.0	58.1	56.0	57.1
87.5°	22.4	23.4	25.5	24.5	24.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)