

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: P393091

Luminaire Tested: **14EN-LD2-38-UNV-L82765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393091
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-53)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-38-UNV-L82765-W2A-1-U (3000K)
Description: 1X4 ENCOUNTER, 3800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3460.9 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

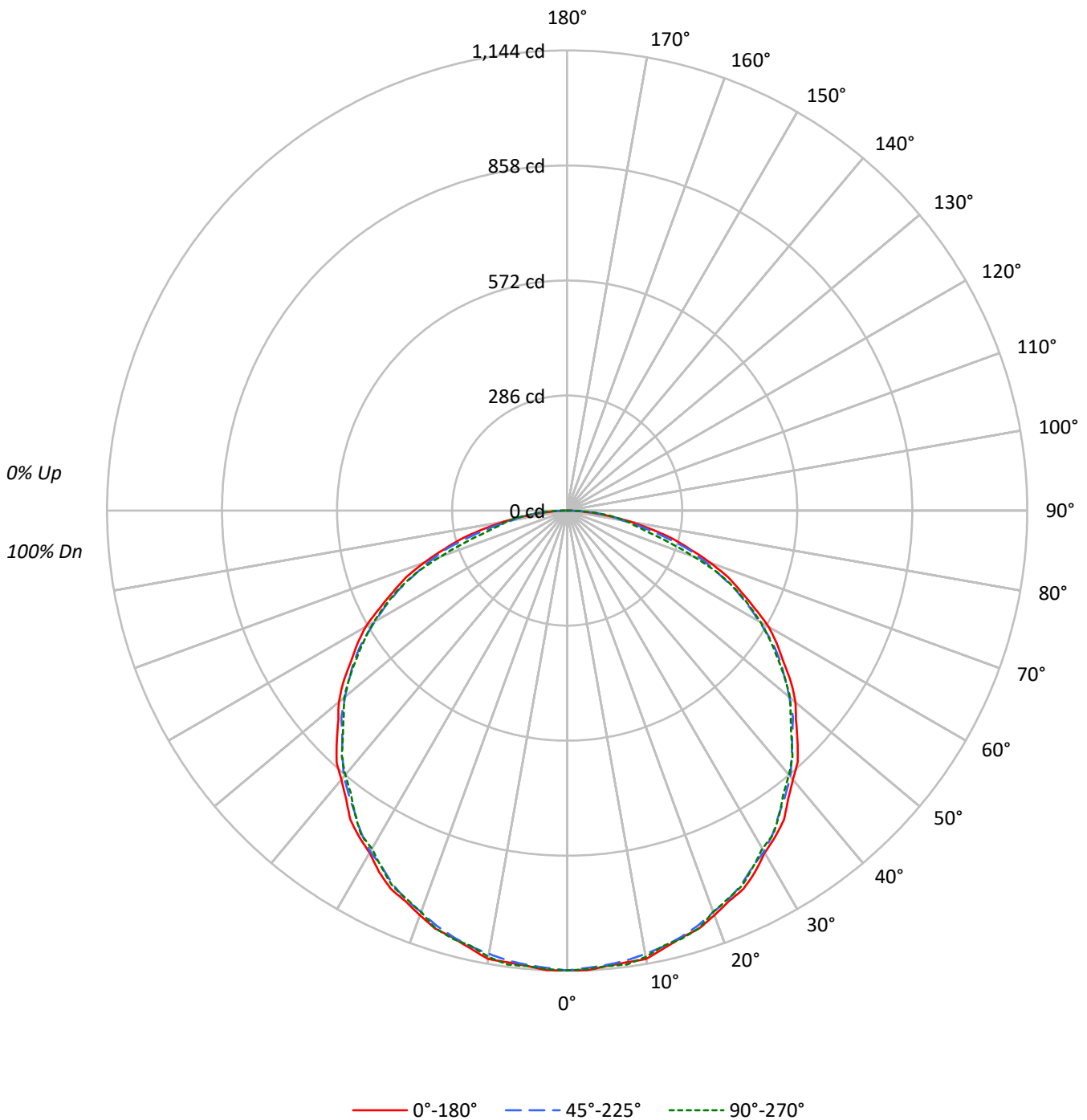
Input Watts (W): 36.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3076	3076	3076
5°	3070	3062	3070
10°	3093	3058	3078
15°	3061	3056	3069
20°	3065	3042	3042
25°	3080	3045	3056
30°	3052	3041	3015
35°	3085	3019	3022
40°	3067	3032	3013
45°	3082	3009	2998
50°	3103	3018	3030
55°	3081	3025	2995
60°	3115	2967	2991
65°	3037	2920	2944
70°	2973	2829	2634
75°	2832	2574	2183
80°	2473	2132	2317
85°	1812	2294	2322



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.2	3.1
10°-20°	310.4	9.0
20°-30°	473.5	13.7
30°-40°	578.4	16.7
40°-50°	615.2	17.8
50°-60°	577.6	16.7
60°-70°	458.1	13.2
70°-80°	261.0	7.5
80°-90°	78.5	2.3
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°	892.1	25.8
0°-40°	1470.6	42.5
0°-60°	2663.3	77.0
0°-90°	3460.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3460.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1143	1143	1143	1143	1143	
5°	1136	1143	1134	1137	1136	108
15°	1099	1101	1097	1099	1102	311
25°	1037	1027	1026	1026	1029	476
35°	939	928	919	920	920	585
45°	810	805	791	792	788	625
55°	657	653	645	638	638	590
65°	477	474	459	460	462	474
75°	272	262	248	222	210	284
85°	59	65	74	74	75	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1142.9	1142.9	1142.9	1142.9	1142.9
2.5°	1143.8	1142.9	1138.3	1143.8	1141.0
5°	1136.4	1142.9	1133.7	1137.4	1136.4
7.5°	1132.8	1130.9	1128.2	1134.6	1138.3
10°	1131.8	1122.7	1119.0	1125.4	1126.3
12.5°	1114.4	1117.2	1109.8	1111.7	1108.0
15°	1098.8	1100.7	1097.0	1098.8	1101.6
17.5°	1089.7	1084.2	1081.4	1085.1	1088.7
20°	1070.4	1071.3	1062.1	1066.7	1062.1
22.5°	1051.1	1052.0	1046.5	1046.5	1044.7
25°	1037.4	1027.3	1025.5	1026.4	1029.1
27.5°	1012.6	1008.9	997.9	1001.6	999.8
30°	982.3	986.0	978.7	971.3	970.4
32.5°	962.2	955.7	952.1	949.3	953.9
35°	939.2	928.2	919.1	920.0	920.0
37.5°	902.5	901.6	891.5	887.0	884.2
40°	873.2	869.5	863.1	856.7	857.6
42.5°	848.4	836.5	826.4	824.6	829.2
45°	809.9	805.3	790.6	791.6	787.9
47.5°	771.4	770.5	761.3	754.0	753.0
50°	741.1	731.9	720.9	719.1	723.7
52.5°	701.7	697.1	681.5	681.5	681.5
55°	656.7	653.1	644.8	638.4	638.4
57.5°	619.1	611.8	601.7	597.1	597.1
60°	578.8	567.8	551.2	553.1	555.8
62.5°	525.6	520.1	505.4	503.6	509.1
65°	477.0	474.2	458.6	460.4	462.3
67.5°	433.8	421.9	404.5	410.9	407.2
70°	377.9	371.5	359.5	346.7	334.8
72.5°	321.9	318.3	311.9	280.7	269.7
75°	272.4	262.3	247.6	222.0	210.0
77.5°	213.7	211.0	189.9	169.7	171.5
80°	159.6	161.4	137.6	145.8	149.5
82.5°	104.6	108.2	112.8	118.3	115.6
85°	58.7	65.1	74.3	74.3	75.2
87.5°	21.1	31.2	33.0	33.0	33.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)