

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: P392907

Luminaire Tested: **12EN-LD2-35-UNV-L83050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-39)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12EN-LD2-35-UNV-L83050-W2A-1-U (3000K)
Description: 1X2 ENCOUNTER, 3500 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3437.2 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

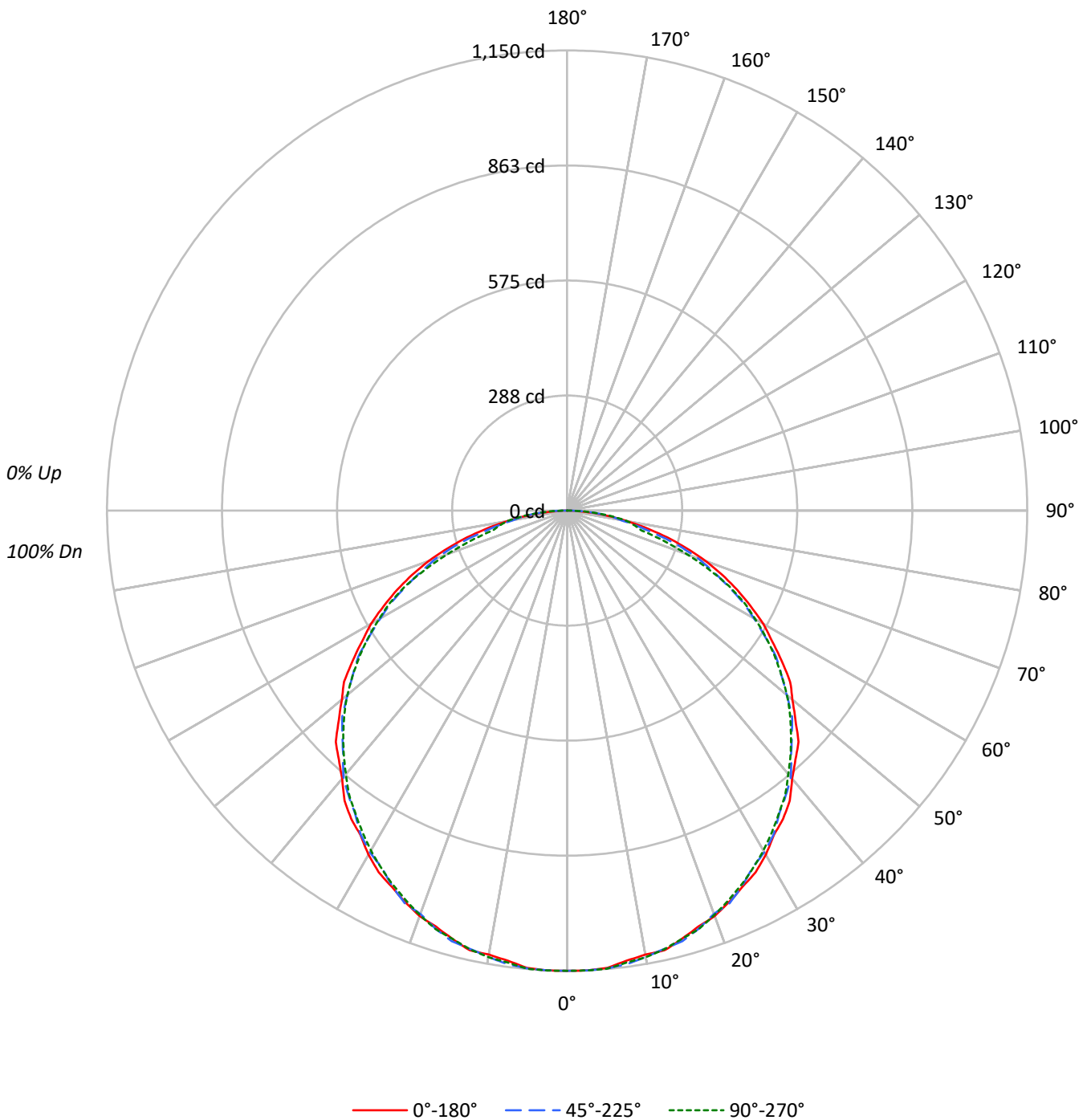
Input Watts (W): 31
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6190	6190	6190
5°	6198	6204	6209
10°	6157	6189	6195
15°	6173	6206	6173
20°	6176	6143	6160
25°	6159	6147	6124
30°	6170	6127	6096
35°	6181	6070	6064
40°	6145	6111	6042
45°	6224	6043	6021
50°	6154	5997	6006
55°	6139	5983	5937
60°	6090	5804	5846
65°	5965	5613	5676
70°	5791	5465	5017
75°	5382	4849	4011
80°	4696	4178	4727
85°	3767	4495	4557



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	3.2
10°-20°	313.3	9.1
20°-30°	477.0	13.9
30°-40°	581.7	16.9
40°-50°	615.7	17.9
50°-60°	570.3	16.6
60°-70°	444.2	12.9
70°-80°	249.2	7.2
80°-90°	76.8	2.2
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°	899.2	26.2
0°-40°	1481.0	43.1
0°-60°	2666.9	77.6
0°-90°	3437.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3437.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1150	1150	1150	1150	1150	
5°	1147	1148	1148	1150	1149	109
15°	1108	1110	1114	1110	1108	313
25°	1037	1035	1035	1028	1031	479
35°	941	933	924	922	923	588
45°	818	808	794	792	791	626
55°	654	649	638	629	633	585
65°	468	460	441	444	446	463
75°	259	251	233	209	193	272
85°	61	63	73	74	74	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1150.2	1150.2	1150.2	1150.2	1150.2
2.5°	1150.2	1148.3	1150.2	1149.2	1150.2
5°	1147.3	1148.3	1148.3	1150.2	1149.2
7.5°	1134.5	1139.4	1143.3	1142.4	1139.4
10°	1126.6	1131.5	1132.5	1130.6	1133.5
12.5°	1125.6	1126.6	1121.7	1124.7	1122.7
15°	1107.9	1109.9	1113.8	1109.9	1107.9
17.5°	1090.2	1094.1	1095.1	1092.2	1096.1
20°	1078.4	1081.4	1072.5	1076.4	1075.5
22.5°	1058.7	1059.7	1061.7	1054.8	1053.8
25°	1037.1	1035.1	1035.1	1028.2	1031.2
27.5°	1019.4	1012.5	1004.6	1008.5	1006.6
30°	992.8	991.8	985.9	982.0	981.0
32.5°	961.3	962.3	960.3	951.5	952.5
35°	940.7	932.8	923.9	922.0	922.9
37.5°	914.1	907.2	897.4	894.4	895.4
40°	874.7	873.7	869.8	858.0	860.0
42.5°	844.2	838.3	828.5	823.6	826.5
45°	817.7	807.8	794.0	792.1	791.1
47.5°	773.4	771.4	762.6	751.7	755.7
50°	735.0	731.1	716.3	710.4	717.3
52.5°	702.5	692.7	675.0	674.0	675.0
55°	654.3	649.4	637.6	628.7	632.7
57.5°	607.1	603.2	586.4	583.5	588.4
60°	565.8	558.9	539.2	538.2	543.1
62.5°	516.6	511.7	493.9	493.9	498.9
65°	468.4	459.5	440.8	443.8	445.7
67.5°	419.2	408.3	391.6	388.7	382.8
70°	368.0	357.2	347.3	328.6	318.8
72.5°	311.9	304.0	293.2	264.7	254.8
75°	258.8	250.9	233.2	208.6	192.9
77.5°	202.7	199.7	179.1	169.2	173.2
80°	151.5	150.5	134.8	147.6	152.5
82.5°	103.3	99.4	109.2	115.1	115.1
85°	61.0	63.0	72.8	73.8	73.8
87.5°	24.6	28.5	33.5	35.4	35.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)