

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: P392867

Luminaire Tested: **12EN-LD2-31-UNV-L82765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392867
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-38)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12EN-LD2-31-UNV-L82765-W2A-1-U (3000K)
Description: 1X2 ENCOUNTER, 3100 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2867.3 lumens
Efficiency: N/A
Efficacy: 106.6 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

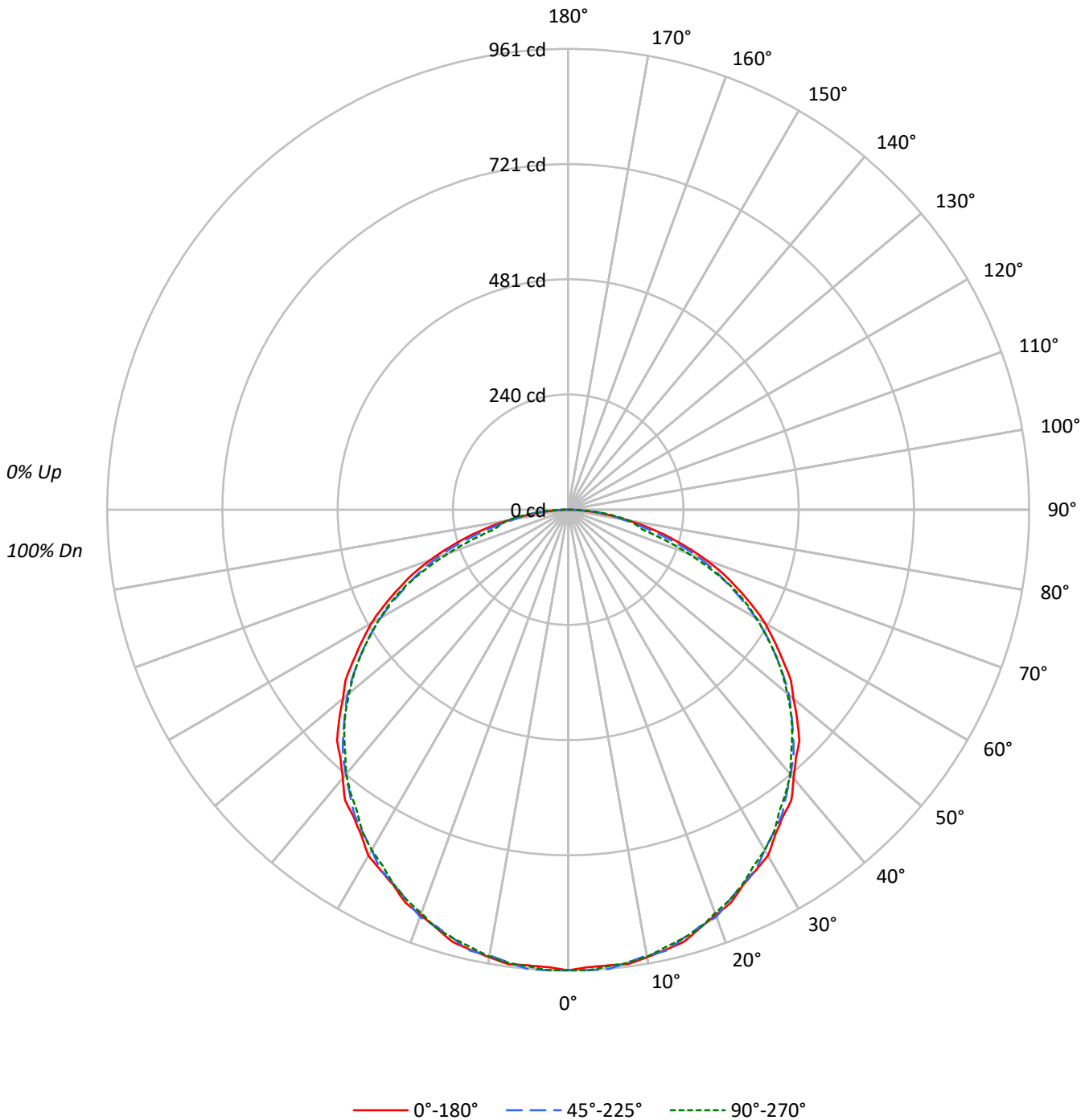
Input Watts (W): 26.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5168	5168	5168
5°	5153	5193	5163
10°	5178	5158	5173
15°	5197	5157	5157
20°	5148	5175	5127
25°	5125	5109	5115
30°	5175	5090	5090
35°	5129	5104	5044
40°	5136	5065	5058
45°	5187	5047	5026
50°	5130	5030	4992
55°	5120	4949	4949
60°	5104	4858	4877
65°	4975	4684	4742
70°	4806	4546	4172
75°	4481	4044	3337
80°	3896	3496	3952
85°	3057	3798	3853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.0	3.2
10°-20°	261.7	9.1
20°-30°	398.1	13.9
30°-40°	485.3	16.9
40°-50°	513.8	17.9
50°-60°	475.8	16.6
60°-70°	370.2	12.9
70°-80°	207.2	7.2
80°-90°	64.3	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°	750.8	26.2
0°-40°	1236.1	43.1
0°-60°	2225.6	77.6
0°-90°	2867.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2867.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	960	960	960	960	960	
5°	954	960	961	962	956	91
15°	933	927	926	924	926	262
25°	863	861	860	859	861	400
35°	781	781	777	772	768	490
45°	682	676	663	660	660	522
55°	546	541	527	525	527	488
65°	391	382	368	369	372	387
75°	216	208	194	174	160	227
85°	50	51	62	62	62	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	960.3	960.3	960.3	960.3	960.3
2.5°	954.8	958.5	961.2	961.2	961.2
5°	953.9	960.3	961.2	962.2	955.7
7.5°	955.7	951.2	952.1	950.2	953.0
10°	947.5	942.9	943.8	945.7	946.6
12.5°	940.1	941.1	942.0	941.1	934.6
15°	932.8	927.3	925.5	923.6	925.5
17.5°	914.5	910.8	911.7	912.6	914.5
20°	898.9	903.5	903.5	901.6	895.2
22.5°	886.9	886.0	880.5	877.8	880.5
25°	863.1	861.3	860.4	859.4	861.3
27.5°	847.5	847.5	846.6	842.9	837.4
30°	832.8	828.2	819.1	817.2	819.1
32.5°	803.5	799.8	797.1	793.4	798.0
35°	780.6	780.6	776.9	772.3	767.7
37.5°	764.0	758.5	747.5	743.9	744.8
40°	731.0	727.4	720.9	716.3	720.0
42.5°	702.6	701.7	695.3	689.7	687.9
45°	681.5	676.0	663.1	659.5	660.4
47.5°	647.6	642.1	631.0	627.4	630.1
50°	612.7	609.0	600.8	595.3	596.2
52.5°	585.2	577.8	564.1	562.3	563.2
55°	545.7	541.2	527.4	524.6	527.4
57.5°	509.1	503.6	490.7	485.2	489.8
60°	474.2	465.9	451.3	449.4	453.1
62.5°	432.9	426.5	409.1	410.0	415.5
65°	390.7	381.6	367.8	368.7	372.4
67.5°	350.4	340.3	329.3	323.8	319.2
70°	305.4	298.1	288.9	271.5	265.1
72.5°	258.7	252.2	244.0	217.4	212.8
75°	215.5	208.2	194.5	174.3	160.5
77.5°	169.7	166.0	149.5	140.3	144.9
80°	125.7	125.7	112.8	122.9	127.5
82.5°	84.4	83.5	92.6	97.2	96.3
85°	49.5	51.4	61.5	61.5	62.4
87.5°	21.1	23.8	28.4	29.4	29.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)