

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: P392946

Luminaire Tested: **12EN-LD2-39-UNV-L92765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392946  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-40)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 12EN-LD2-39-UNV-L92765-W2A-1-U (2700K)  
Description: 1X2 ENCOUNTER, 3900 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2964.3 lumens  
Efficiency: N/A  
Efficacy: 84.5 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

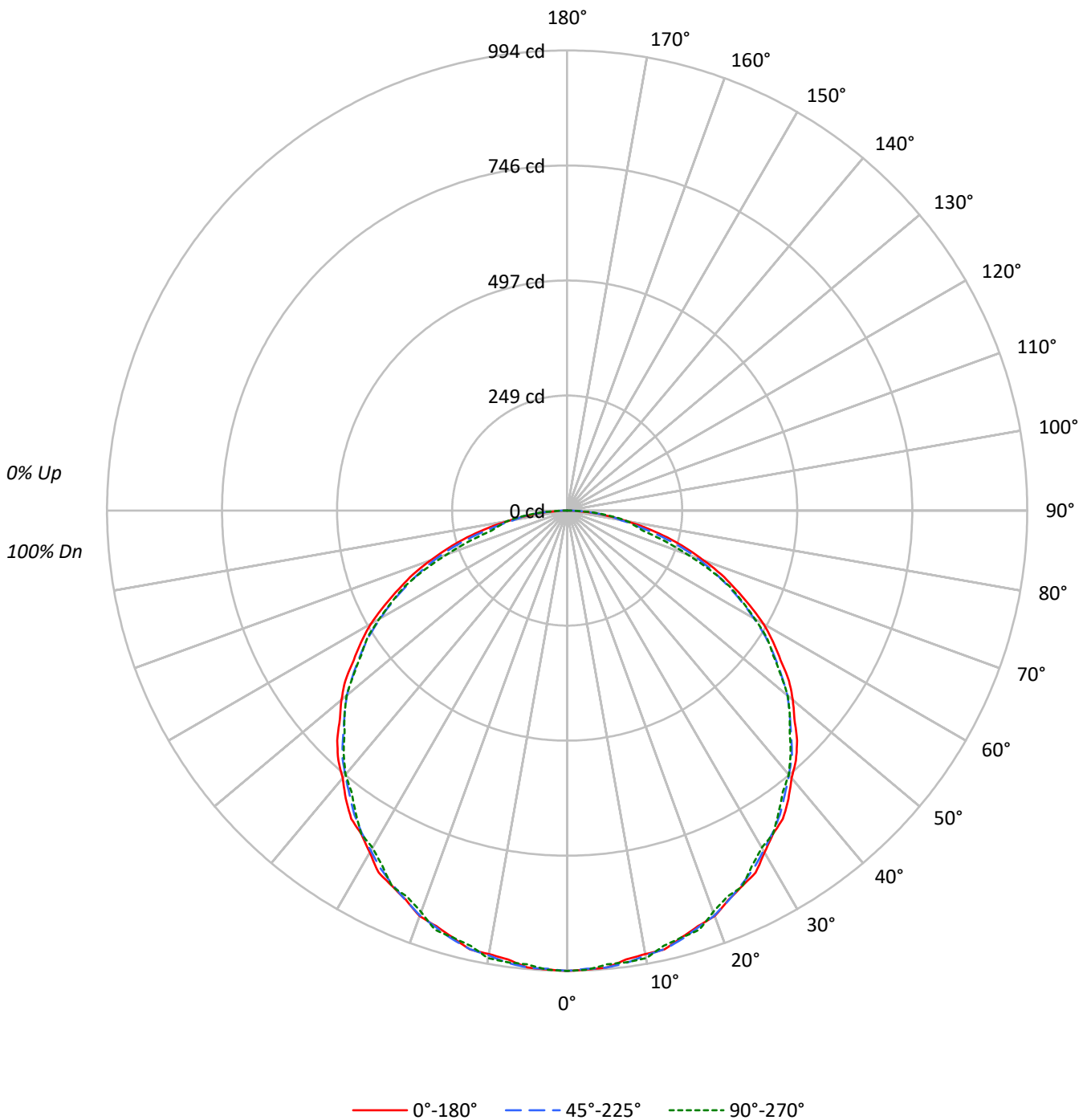
Input Watts (W): 35.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	39	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°	5352	5352	5352
5°	5352	5352	5316
10°	5316	5332	5365
15°	5319	5340	5319
20°	5338	5330	5283
25°	5312	5295	5317
30°	5299	5271	5224
35°	5340	5266	5232
40°	5299	5236	5231
45°	5347	5204	5176
50°	5328	5203	5210
55°	5282	5119	5091
60°	5275	5017	5049
65°	5113	4865	4922
70°	4925	4700	4323
75°	4652	4213	3543
80°	4023	3629	4116
85°	3199	3754	3983



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.0	3.2
10°-20°	270.2	9.1
20°-30°	411.2	13.9
30°-40°	501.2	16.9
40°-50°	531.1	17.9
50°-60°	492.4	16.6
60°-70°	383.0	12.9
70°-80°	215.1	7.3
80°-90°	66.1	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°	775.4	26.2
0°-40°	1276.6	43.1
0°-60°	2300.2	77.6
0°-90°	2964.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2964.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	994	994	994	994	994	
5°	991	987	991	988	984	94
15°	955	955	958	958	955	270
25°	895	895	892	889	895	413
35°	813	808	802	796	796	506
45°	702	695	684	682	680	540
55°	563	560	546	543	543	505
65°	402	398	382	381	386	398
75°	224	216	203	182	170	234
85°	52	53	61	62	64	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	994.4	994.4	994.4	994.4	994.4
2.5°	992.2	994.4	990.7	992.2	992.9
5°	990.7	986.9	990.7	988.4	983.9
7.5°	977.9	981.7	985.4	986.2	983.9
10°	972.7	980.2	975.7	977.9	981.7
12.5°	971.2	968.2	970.4	966.7	962.9
15°	954.6	955.4	958.4	958.4	954.6
17.5°	941.1	947.1	943.4	942.6	949.4
20°	932.1	930.6	930.6	927.6	922.4
22.5°	910.4	911.1	911.1	909.6	902.9
25°	894.6	894.6	891.6	888.6	895.4
27.5°	881.8	875.1	872.1	868.3	864.6
30°	852.6	851.1	848.1	845.8	840.6
32.5°	827.8	828.6	825.6	821.1	827.8
35°	812.8	807.5	801.5	796.3	796.3
37.5°	785.0	779.8	772.3	767.8	765.5
40°	754.3	752.0	745.3	740.7	744.5
42.5°	731.7	727.2	719.0	712.2	714.5
45°	702.5	695.0	683.7	681.5	680.0
47.5°	665.7	663.4	652.2	649.2	652.2
50°	636.4	632.7	621.4	615.4	622.2
52.5°	604.2	595.9	583.1	581.6	580.9
55°	562.9	559.9	545.6	542.6	542.6
57.5°	527.6	523.1	508.8	503.6	511.8
60°	490.1	481.8	466.1	464.6	469.1
62.5°	445.0	439.8	424.0	424.0	427.0
65°	401.5	397.8	382.0	381.3	386.5
67.5°	360.2	352.7	340.7	335.5	332.5
70°	313.0	307.7	298.7	281.4	274.7
72.5°	267.9	262.7	252.9	225.9	223.7
75°	223.7	216.1	202.6	181.6	170.4
77.5°	175.6	173.4	154.6	144.8	149.4
80°	129.8	130.6	117.1	126.8	132.8
82.5°	88.6	85.6	95.3	99.1	101.3
85°	51.8	53.3	60.8	62.3	64.5
87.5°	21.0	24.8	28.5	29.3	32.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)