

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: P392947

Luminaire Tested: **12EN-LD2-39-UNV-L92765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392947  
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 (3000K)  
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: 3057.8 lumens  
Efficiency: N/A  
Efficacy: 87.1 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

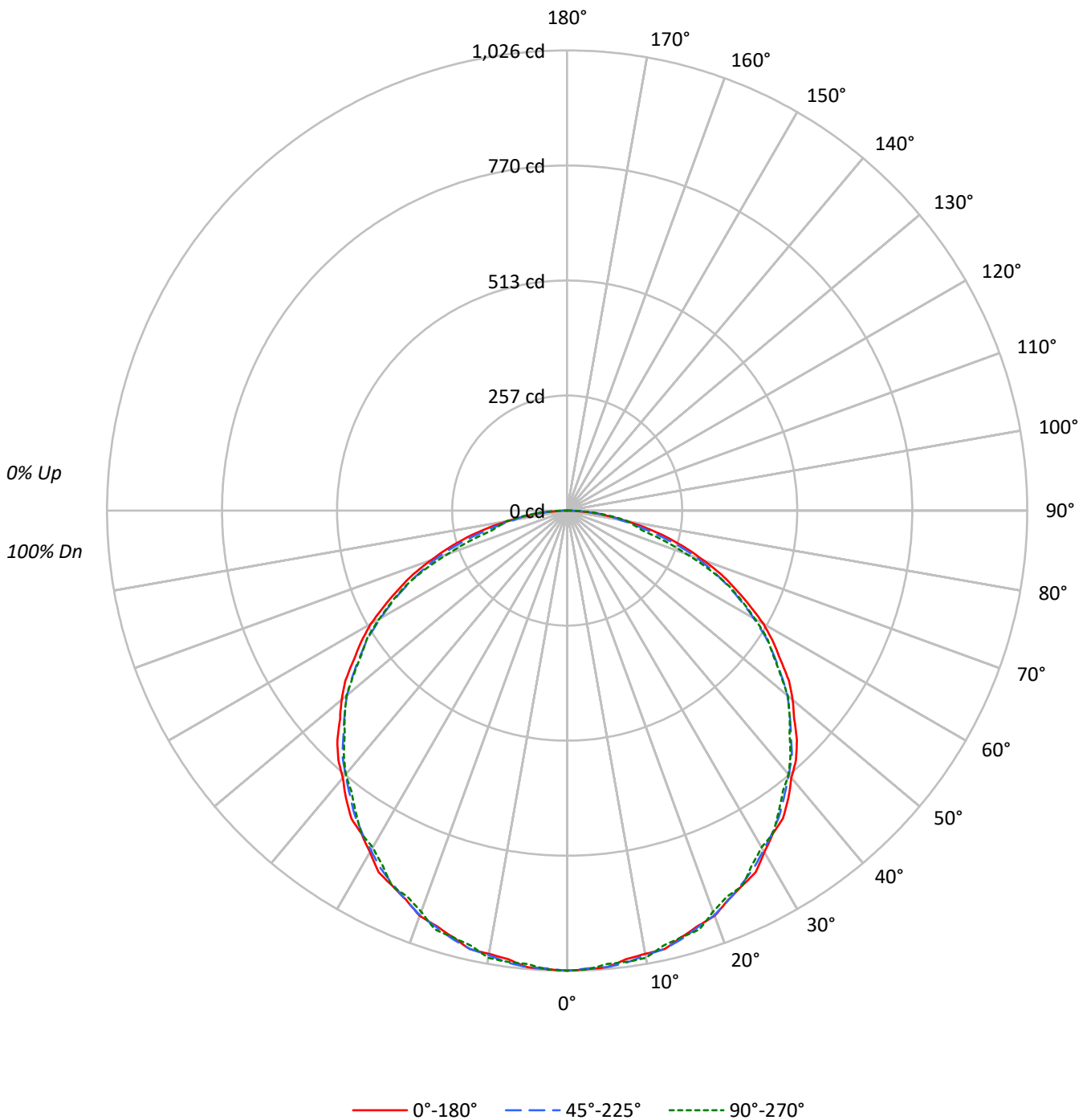
Input Watts (W): 35.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5521	5521	5521
5°	5521	5521	5483
10°	5483	5500	5534
15°	5487	5508	5487
20°	5507	5498	5449
25°	5480	5461	5485
30°	5465	5436	5389
35°	5508	5432	5397
40°	5466	5401	5396
45°	5515	5368	5339
50°	5497	5367	5374
55°	5448	5281	5252
60°	5441	5174	5208
65°	5275	5018	5077
70°	5080	4848	4458
75°	4797	4346	3654
80°	4150	3744	4246
85°	3298	3872	4113



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.0	3.2
10°-20°	278.7	9.1
20°-30°	424.2	13.9
30°-40°	517.0	16.9
40°-50°	547.8	17.9
50°-60°	507.9	16.6
60°-70°	395.0	12.9
70°-80°	221.9	7.3
80°-90°	68.2	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°	799.9	26.2
0°-40°	1316.9	43.1
0°-60°	2372.6	77.6
0°-90°	3057.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3057.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1026	1026	1026	1026	1026	
5°	1022	1018	1022	1020	1015	97
15°	985	986	989	989	985	278
25°	923	923	920	917	924	426
35°	838	833	827	821	821	522
45°	725	717	705	703	701	557
55°	581	578	563	560	560	521
65°	414	410	394	393	399	411
75°	231	223	209	187	176	242
85°	53	55	63	64	67	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1025.8	1025.8	1025.8	1025.8	1025.8
2.5°	1023.4	1025.8	1021.9	1023.4	1024.2
5°	1021.9	1018.0	1021.9	1019.6	1014.9
7.5°	1008.7	1012.6	1016.5	1017.2	1014.9
10°	1003.3	1011.0	1006.4	1008.7	1012.6
12.5°	1001.8	998.7	1001.0	997.1	993.2
15°	984.7	985.5	988.6	988.6	984.7
17.5°	970.8	977.0	973.1	972.3	979.3
20°	961.5	960.0	960.0	956.9	951.4
22.5°	939.0	939.8	939.8	938.3	931.3
25°	922.8	922.8	919.7	916.6	923.6
27.5°	909.6	902.7	899.6	895.7	891.8
30°	879.4	877.9	874.8	872.5	867.1
32.5°	853.9	854.7	851.6	846.9	853.9
35°	838.4	833.0	826.8	821.4	821.4
37.5°	809.8	804.3	796.6	792.0	789.6
40°	778.0	775.7	768.7	764.1	768.0
42.5°	754.8	750.2	741.6	734.7	737.0
45°	724.6	716.9	705.3	702.9	701.4
47.5°	686.7	684.4	672.7	669.6	672.7
50°	656.5	652.6	641.0	634.8	641.8
52.5°	623.2	614.7	601.5	600.0	599.2
55°	580.6	577.5	562.8	559.7	559.7
57.5°	544.2	539.6	524.9	519.5	528.0
60°	505.5	497.0	480.7	479.2	483.8
62.5°	459.1	453.7	437.4	437.4	440.5
65°	414.2	410.3	394.0	393.3	398.7
67.5°	371.6	363.9	351.5	346.0	342.9
70°	322.8	317.4	308.1	290.3	283.3
72.5°	276.4	271.0	260.9	233.0	230.7
75°	230.7	223.0	209.0	187.3	175.7
77.5°	181.2	178.8	159.5	149.4	154.1
80°	133.9	134.7	120.8	130.8	137.0
82.5°	91.4	88.3	98.3	102.2	104.5
85°	53.4	55.0	62.7	64.3	66.6
87.5°	21.7	25.5	29.4	30.2	33.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)