

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: P392948

Luminaire Tested: **12EN-LD2-39-UNV-L92765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392948
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 (3500K)
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: 3128.0 lumens
Efficiency: N/A
Efficacy: 88.9 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

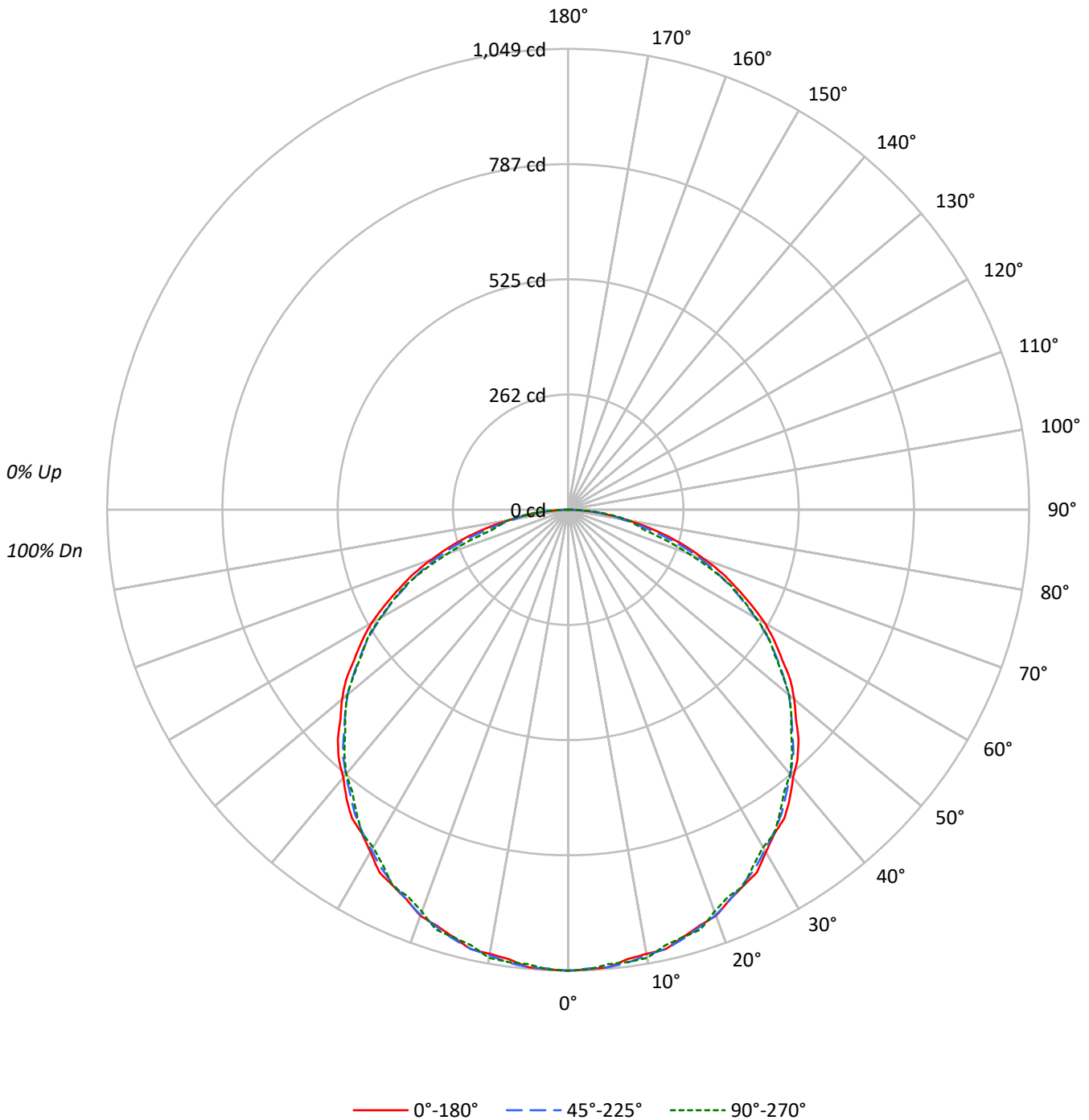
Input Watts (W): 35.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5647	5647	5647
5°	5648	5648	5609
10°	5609	5626	5661
15°	5613	5635	5613
20°	5633	5624	5574
25°	5606	5587	5611
30°	5591	5561	5512
35°	5635	5557	5521
40°	5592	5525	5519
45°	5642	5492	5461
50°	5623	5490	5497
55°	5574	5403	5373
60°	5566	5294	5328
65°	5396	5133	5195
70°	5196	4960	4562
75°	4907	4446	3739
80°	4246	3828	4345
85°	3372	3958	4205



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	3.2
10°-20°	285.1	9.1
20°-30°	433.9	13.9
30°-40°	528.9	16.9
40°-50°	560.4	17.9
50°-60°	519.6	16.6
60°-70°	404.1	12.9
70°-80°	227.0	7.3
80°-90°	69.7	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°	818.2	26.2
0°-40°	1347.1	43.1
0°-60°	2427.2	77.6
0°-90°	3128.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3128.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1049	1049	1049	1049	1049	
5°	1045	1041	1045	1043	1038	99
15°	1007	1008	1011	1011	1007	285
25°	944	944	941	938	945	436
35°	858	852	846	840	840	534
45°	741	733	722	719	718	570
55°	594	591	576	573	573	533
65°	424	420	403	402	408	420
75°	236	228	214	192	180	247
85°	55	56	64	66	68	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1049.3	1049.3	1049.3	1049.3	1049.3
2.5°	1047.0	1049.3	1045.4	1047.0	1047.8
5°	1045.4	1041.4	1045.4	1043.0	1038.3
7.5°	1031.9	1035.9	1039.8	1040.6	1038.3
10°	1026.4	1034.3	1029.5	1031.9	1035.9
12.5°	1024.8	1021.6	1024.0	1020.0	1016.1
15°	1007.4	1008.2	1011.3	1011.3	1007.4
17.5°	993.1	999.4	995.5	994.7	1001.8
20°	983.6	982.0	982.0	978.9	973.3
22.5°	960.6	961.4	961.4	959.8	952.7
25°	944.0	944.0	940.8	937.7	944.8
27.5°	930.5	923.4	920.2	916.3	912.3
30°	899.7	898.1	894.9	892.5	887.0
32.5°	873.5	874.3	871.1	866.4	873.5
35°	857.7	852.1	845.8	840.3	840.3
37.5°	828.4	822.8	814.9	810.2	807.8
40°	795.9	793.5	786.4	781.7	785.6
42.5°	772.2	767.4	758.7	751.6	753.9
45°	741.3	733.3	721.5	719.1	717.5
47.5°	702.5	700.1	688.2	685.0	688.2
50°	671.6	667.6	655.7	649.4	656.5
52.5°	637.5	628.8	615.3	613.8	613.0
55°	594.0	590.8	575.8	572.6	572.6
57.5°	556.7	552.0	536.9	531.4	540.1
60°	517.1	508.4	491.8	490.2	495.0
62.5°	469.6	464.1	447.5	447.5	450.6
65°	423.7	419.7	403.1	402.3	407.9
67.5°	380.1	372.2	359.5	354.0	350.8
70°	330.2	324.7	315.2	297.0	289.9
72.5°	282.7	277.2	266.9	238.4	236.0
75°	236.0	228.1	213.8	191.7	179.8
77.5°	185.3	182.9	163.1	152.8	157.6
80°	137.0	137.8	123.5	133.8	140.2
82.5°	93.5	90.3	100.6	104.5	106.9
85°	54.6	56.2	64.1	65.7	68.1
87.5°	22.2	26.1	30.1	30.9	34.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)