

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: P392886

Luminaire Tested: **12EN-LD2-31-UNV-L92765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392886
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-L92765-W2A-1-U (4500K)
Description: 1X2 ENCOUNTER, 3100 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2568.0 lumens
Efficiency: N/A
Efficacy: 95.8 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

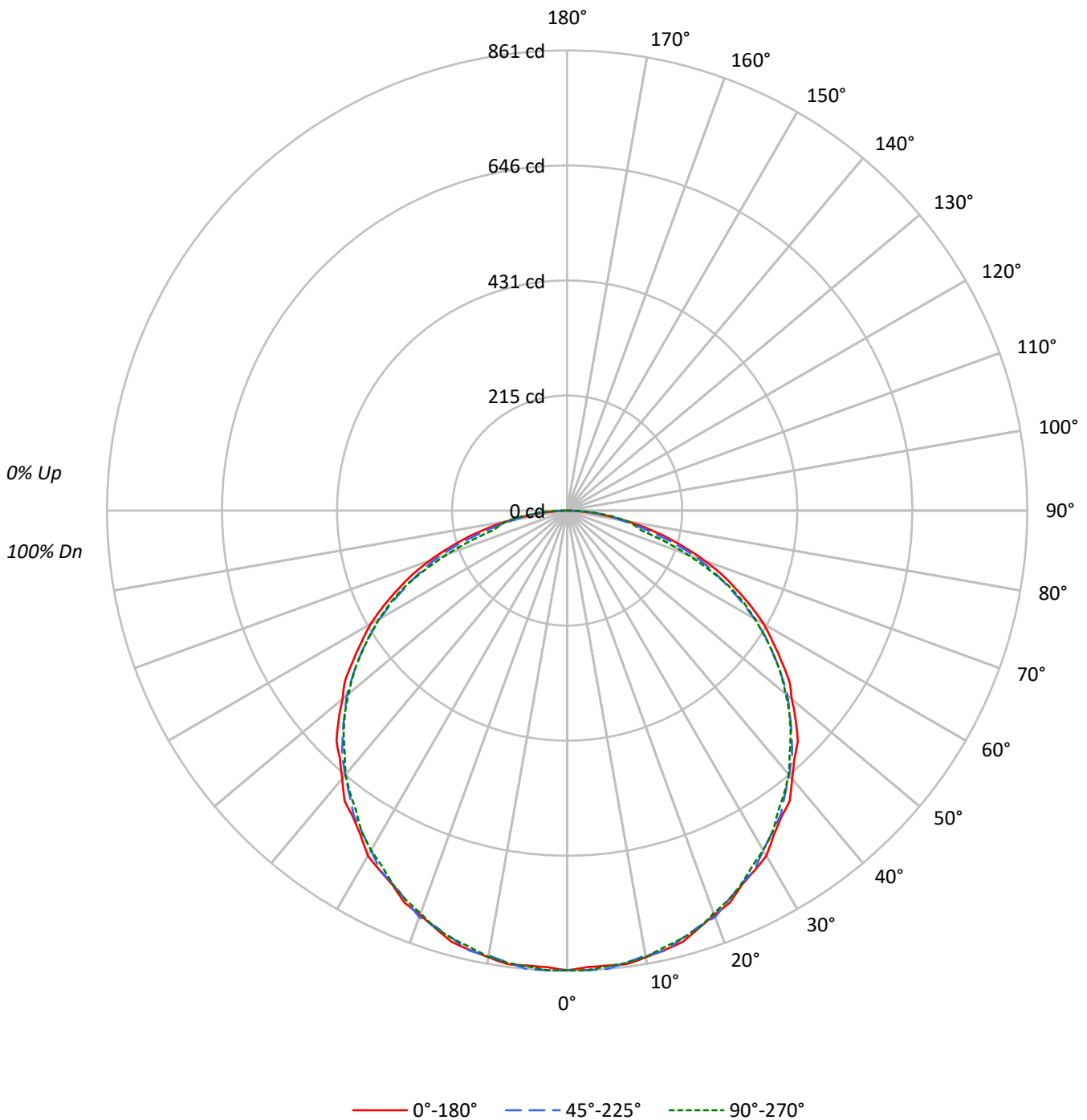
Input Watts (W): 26.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4629	4629	4629
5°	4616	4651	4625
10°	4638	4620	4633
15°	4655	4618	4618
20°	4611	4635	4592
25°	4590	4576	4581
30°	4635	4559	4559
35°	4593	4572	4518
40°	4600	4536	4531
45°	4646	4520	4502
50°	4595	4505	4471
55°	4586	4433	4433
60°	4571	4351	4368
65°	4457	4195	4247
70°	4305	4072	3736
75°	4015	3622	2990
80°	3487	3130	3539
85°	2742	3396	3452



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	3.2
10°-20°	234.4	9.1
20°-30°	356.6	13.9
30°-40°	434.6	16.9
40°-50°	460.1	17.9
50°-60°	426.1	16.6
60°-70°	331.6	12.9
70°-80°	185.6	7.2
80°-90°	57.6	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°	672.5	26.2
0°-40°	1107.1	43.1
0°-60°	1993.3	77.6
0°-90°	2568.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2568.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	860	860	860	860	860	
5°	854	860	861	862	856	82
15°	836	830	829	827	829	235
25°	773	771	771	770	771	358
35°	699	699	696	692	688	439
45°	610	605	594	591	592	468
55°	489	485	472	470	472	438
65°	350	342	329	330	334	347
75°	193	186	174	156	144	203
85°	44	46	55	55	56	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	860.1	860.1	860.1	860.1	860.1
2.5°	855.2	858.5	860.9	860.9	860.9
5°	854.4	860.1	860.9	861.7	856.0
7.5°	856.0	851.9	852.7	851.1	853.5
10°	848.6	844.5	845.3	847.0	847.8
12.5°	842.0	842.8	843.7	842.8	837.1
15°	835.5	830.5	828.9	827.2	828.9
17.5°	819.0	815.7	816.6	817.4	819.0
20°	805.1	809.2	809.2	807.5	801.8
22.5°	794.4	793.6	788.6	786.2	788.6
25°	773.0	771.4	770.6	769.7	771.4
27.5°	759.1	759.1	758.2	754.9	750.0
30°	745.9	741.8	733.6	731.9	733.6
32.5°	719.6	716.3	713.9	710.6	714.7
35°	699.1	699.1	695.8	691.7	687.6
37.5°	684.3	679.4	669.5	666.2	667.1
40°	654.7	651.4	645.7	641.6	644.9
42.5°	629.3	628.4	622.7	617.8	616.1
45°	610.4	605.4	593.9	590.7	591.5
47.5°	580.0	575.0	565.2	561.9	564.4
50°	548.8	545.5	538.1	533.1	534.0
52.5°	524.1	517.5	505.2	503.6	504.4
55°	488.8	484.7	472.4	469.9	472.4
57.5°	455.9	451.0	439.5	434.6	438.7
60°	424.7	417.3	404.2	402.5	405.8
62.5°	387.7	382.0	366.4	367.2	372.1
65°	350.0	341.7	329.4	330.2	333.5
67.5°	313.8	304.8	294.9	290.0	285.9
70°	273.6	267.0	258.8	243.2	237.4
72.5°	231.7	225.9	218.5	194.7	190.6
75°	193.1	186.5	174.2	156.1	143.8
77.5°	152.0	148.7	133.9	125.7	129.8
80°	112.5	112.5	101.0	110.1	114.2
82.5°	75.6	74.8	83.0	87.1	86.3
85°	44.4	46.0	55.0	55.0	55.9
87.5°	18.9	21.4	25.5	26.3	26.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)