

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: P392887

Luminaire Tested: **12EN-LD2-31-UNV-L92765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392887
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 (5000K)
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: 2634.9 lumens
Efficiency: N/A
Efficacy: 98.3 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

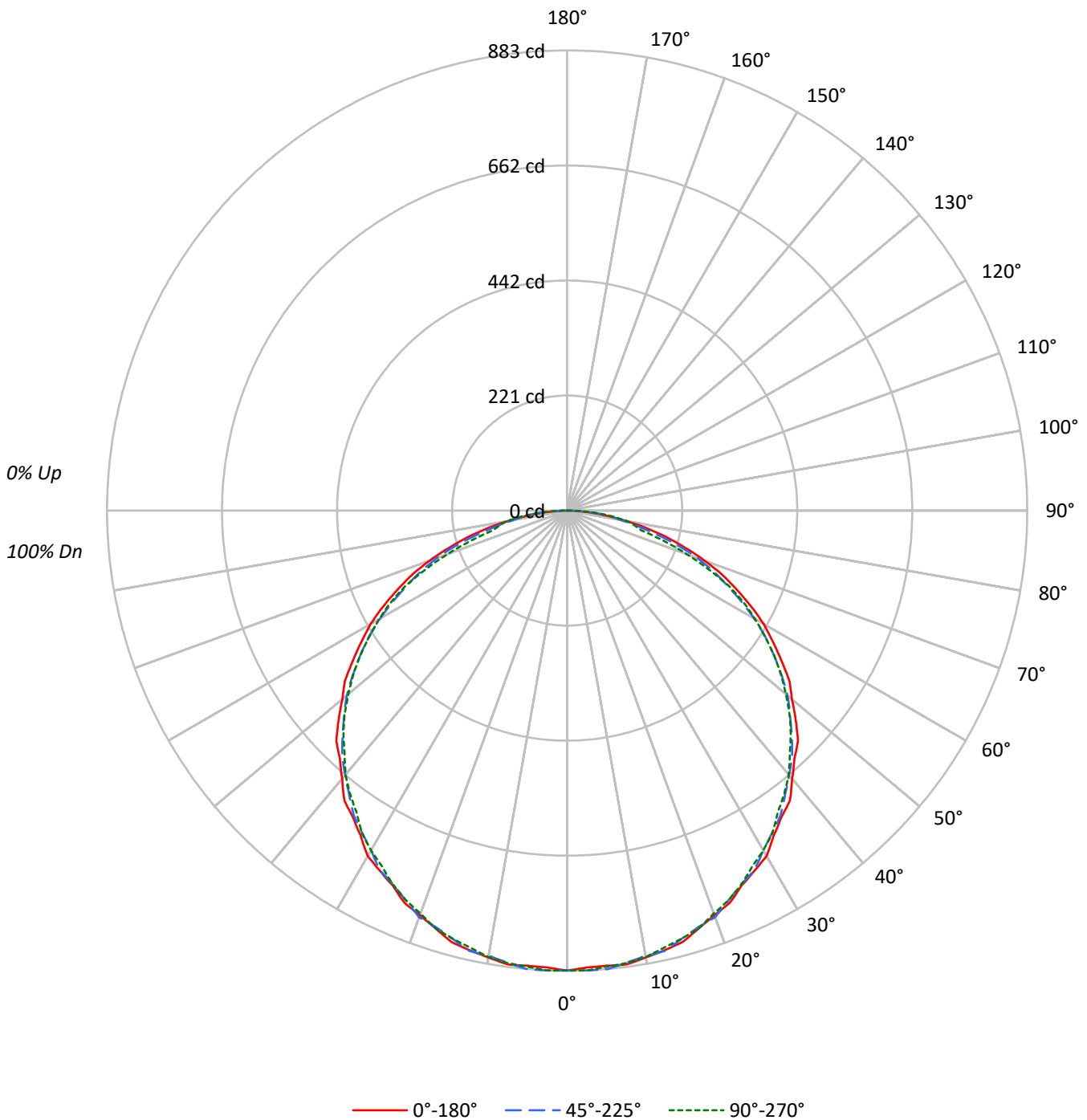
Input Watts (W): 26.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4750	4750	4750
5°	4736	4773	4745
10°	4758	4740	4754
15°	4776	4739	4739
20°	4731	4755	4712
25°	4710	4695	4700
30°	4757	4678	4678
35°	4713	4690	4635
40°	4720	4654	4649
45°	4767	4638	4619
50°	4715	4623	4587
55°	4706	4548	4548
60°	4691	4464	4482
65°	4573	4304	4358
70°	4417	4178	3833
75°	4119	3716	3067
80°	3580	3214	3632
85°	2810	3489	3538



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	3.2
10°-20°	240.5	9.1
20°-30°	365.9	13.9
30°-40°	445.9	16.9
40°-50°	472.1	17.9
50°-60°	437.2	16.6
60°-70°	340.2	12.9
70°-80°	190.4	7.2
80°-90°	59.0	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°	690.0	26.2
0°-40°	1135.9	43.1
0°-60°	2045.3	77.6
0°-90°	2634.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2634.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	882	882	882	882	882	
5°	877	882	883	884	878	84
15°	857	852	850	849	850	241
25°	793	792	791	790	792	367
35°	717	717	714	710	706	451
45°	626	621	609	606	607	480
55°	502	497	485	482	485	449
65°	359	351	338	339	342	356
75°	198	191	179	160	148	208
85°	46	47	56	56	57	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	882.5	882.5	882.5	882.5	882.5
2.5°	877.5	880.8	883.4	883.4	883.4
5°	876.6	882.5	883.4	884.2	878.3
7.5°	878.3	874.1	874.9	873.2	875.8
10°	870.7	866.5	867.3	869.0	869.9
12.5°	864.0	864.8	865.7	864.8	858.9
15°	857.2	852.2	850.5	848.8	850.5
17.5°	840.4	837.0	837.8	838.7	840.4
20°	826.0	830.3	830.3	828.6	822.7
22.5°	815.1	814.2	809.2	806.7	809.2
25°	793.2	791.5	790.6	789.8	791.5
27.5°	778.8	778.8	778.0	774.6	769.6
30°	765.4	761.1	752.7	751.0	752.7
32.5°	738.4	735.0	732.5	729.1	733.3
35°	717.3	717.3	713.9	709.7	705.5
37.5°	702.1	697.1	687.0	683.6	684.4
40°	671.8	668.4	662.5	658.3	661.7
42.5°	645.7	644.8	638.9	633.9	632.2
45°	626.3	621.2	609.4	606.0	606.9
47.5°	595.1	590.0	579.9	576.5	579.1
50°	563.1	559.7	552.1	547.0	547.9
52.5°	537.8	531.0	518.4	516.7	517.5
55°	501.5	497.3	484.7	482.1	484.7
57.5°	467.8	462.8	451.0	445.9	450.1
60°	435.8	428.2	414.7	413.0	416.4
62.5°	397.8	391.9	375.9	376.8	381.8
65°	359.1	350.6	338.0	338.8	342.2
67.5°	322.0	312.7	302.6	297.5	293.3
70°	280.7	273.9	265.5	249.5	243.6
72.5°	237.7	231.8	224.2	199.8	195.6
75°	198.1	191.3	178.7	160.2	147.5
77.5°	155.9	152.6	137.4	129.0	133.2
80°	115.5	115.5	103.7	112.9	117.2
82.5°	77.5	76.7	85.1	89.3	88.5
85°	45.5	47.2	56.5	56.5	57.3
87.5°	19.4	21.9	26.1	27.0	27.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)