

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: P392884

Luminaire Tested: **12EN-LD2-31-UNV-L92765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392884
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 (3500K)
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: 2475.7 lumens
Efficiency: N/A
Efficacy: 92.4 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

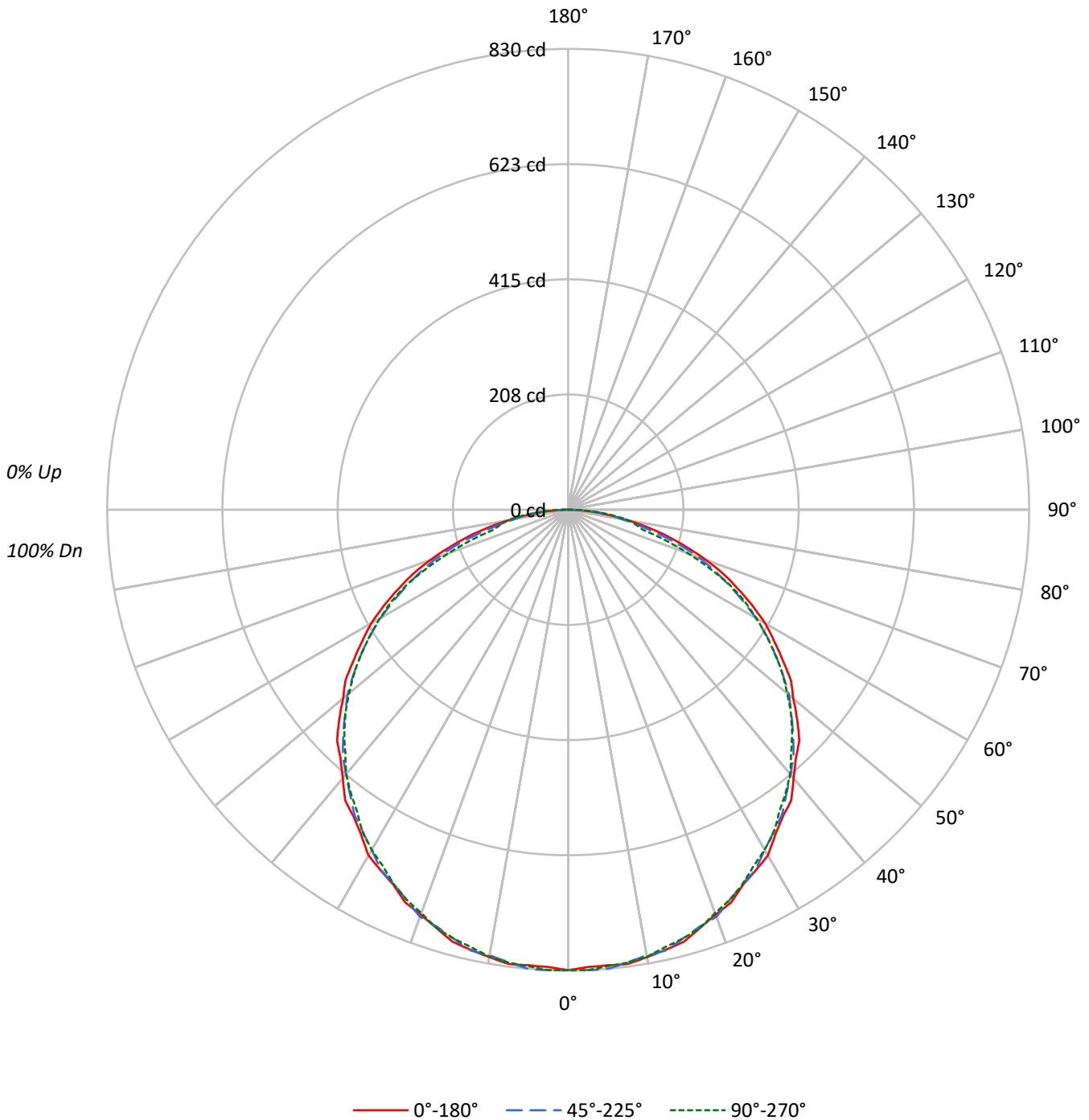
Input Watts (W): 26.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4463	4463	4463
5°	4450	4484	4458
10°	4471	4453	4467
15°	4488	4452	4452
20°	4445	4468	4427
25°	4425	4412	4416
30°	4469	4395	4395
35°	4428	4407	4355
40°	4435	4373	4368
45°	4478	4358	4340
50°	4429	4343	4310
55°	4421	4273	4273
60°	4407	4194	4211
65°	4297	4045	4094
70°	4150	3926	3602
75°	3870	3491	2882
80°	3363	3019	3412
85°	2643	3279	3328



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.6	3.2
10°-20°	225.9	9.1
20°-30°	343.8	13.9
30°-40°	419.0	16.9
40°-50°	443.6	17.9
50°-60°	410.8	16.6
60°-70°	319.6	12.9
70°-80°	178.9	7.2
80°-90°	55.5	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°	648.3	26.2
0°-40°	1067.3	43.1
0°-60°	1921.7	77.6
0°-90°	2475.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2475.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	829	829	829	829	829	
5°	824	829	830	831	825	79
15°	805	801	799	798	799	226
25°	745	744	743	742	744	345
35°	674	674	671	667	663	423
45°	588	584	573	569	570	451
55°	471	467	455	453	455	422
65°	337	330	318	318	322	334
75°	186	180	168	150	139	196
85°	43	44	53	53	54	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	829.2	829.2	829.2	829.2	829.2
2.5°	824.4	827.6	830.0	830.0	830.0
5°	823.6	829.2	830.0	830.8	825.2
7.5°	825.2	821.3	822.0	820.5	822.8
10°	818.1	814.1	814.9	816.5	817.3
12.5°	811.8	812.5	813.3	812.5	807.0
15°	805.4	800.7	799.1	797.5	799.1
17.5°	789.6	786.4	787.2	788.0	789.6
20°	776.1	780.1	780.1	778.5	772.9
22.5°	765.8	765.0	760.3	757.9	760.3
25°	745.2	743.6	742.9	742.1	743.6
27.5°	731.8	731.8	731.0	727.8	723.1
30°	719.1	715.1	707.2	705.6	707.2
32.5°	693.8	690.6	688.2	685.0	689.0
35°	674.0	674.0	670.8	666.8	662.9
37.5°	659.7	654.9	645.4	642.3	643.1
40°	631.2	628.0	622.5	618.5	621.7
42.5°	606.6	605.8	600.3	595.5	594.0
45°	588.4	583.7	572.6	569.4	570.2
47.5°	559.1	554.4	544.9	541.7	544.1
50°	529.0	525.9	518.7	514.0	514.8
52.5°	505.3	498.9	487.1	485.5	486.3
55°	471.2	467.3	455.4	453.0	455.4
57.5°	439.5	434.8	423.7	418.9	422.9
60°	409.4	402.3	389.6	388.1	391.2
62.5°	373.8	368.3	353.2	354.0	358.8
65°	337.4	329.5	317.6	318.4	321.5
67.5°	302.5	293.8	284.3	279.6	275.6
70°	263.7	257.4	249.5	234.4	228.9
72.5°	223.3	217.8	210.7	187.7	183.7
75°	186.1	179.8	167.9	150.5	138.6
77.5°	146.5	143.3	129.1	121.2	125.1
80°	108.5	108.5	97.4	106.1	110.1
82.5°	72.9	72.1	80.0	83.9	83.2
85°	42.8	44.3	53.1	53.1	53.9
87.5°	18.2	20.6	24.6	25.3	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)