

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: P392853

Luminaire Tested: **12EN-LD2-27-UNV-L92765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-37)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12EN-LD2-27-UNV-L92765-W2A-1-U (4000K)
Description: 1X2 ENCOUNTER, 2700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2273.1 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.4
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

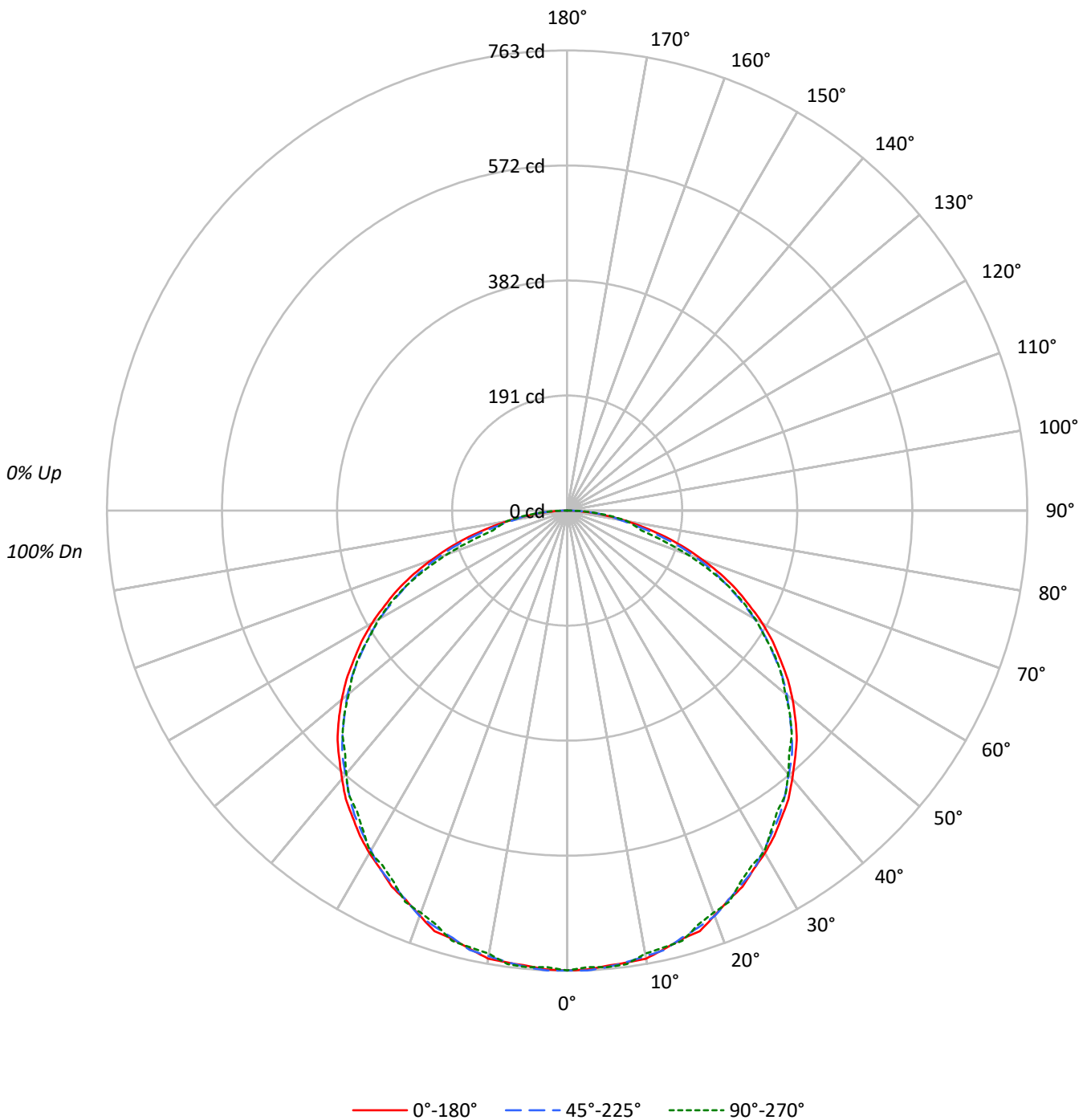
Input Watts (W): 23.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4104	4104	4104
5°	4093	4106	4106
10°	4122	4099	4077
15°	4096	4087	4115
20°	4093	4097	4064
25°	4086	4062	4037
30°	4076	4045	4061
35°	4075	4043	3994
40°	4079	4015	4003
45°	4098	4010	4010
50°	4086	3981	3954
55°	4051	3927	3950
60°	4024	3863	3881
65°	3949	3729	3739
70°	3761	3592	3319
75°	3508	3198	2649
80°	3102	2743	3127
85°	2452	2908	3013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	3.2
10°-20°	207.5	9.1
20°-30°	315.7	13.9
30°-40°	384.7	16.9
40°-50°	407.7	17.9
50°-60°	377.6	16.6
60°-70°	293.4	12.9
70°-80°	163.8	7.2
80°-90°	50.6	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°	595.4	26.2
0°-40°	980.1	43.1
0°-60°	1765.3	77.7
0°-90°	2273.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2273.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	762	762	762	762	762	
5°	758	760	760	760	760	72
15°	735	734	734	733	738	208
25°	688	686	684	683	680	317
35°	620	618	615	612	608	389
45°	538	533	527	522	527	414
55°	432	430	418	416	421	387
65°	310	304	293	294	294	305
75°	169	165	154	138	127	178
85°	40	40	47	49	49	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	762.5	762.5	762.5	762.5	762.5
2.5°	761.7	760.9	763.4	761.7	757.6
5°	757.6	760.0	760.0	760.0	760.0
7.5°	755.9	754.3	755.1	755.9	758.4
10°	754.3	749.3	750.1	749.3	746.0
12.5°	744.3	744.3	746.0	744.3	741.9
15°	735.2	734.4	733.6	732.8	738.5
17.5°	731.1	724.5	724.5	725.3	720.3
20°	714.6	714.6	715.4	712.9	709.6
22.5°	698.8	701.3	698.8	695.5	702.2
25°	688.1	686.4	684.0	683.1	679.8
27.5°	669.9	671.6	670.7	667.4	663.3
30°	655.8	654.2	650.9	646.7	653.4
32.5°	639.3	636.8	632.7	630.2	629.4
35°	620.3	617.8	615.3	612.0	607.9
37.5°	602.9	598.8	593.8	588.8	594.6
40°	580.6	578.9	571.5	568.2	569.8
42.5°	559.1	557.4	551.6	547.5	545.0
45°	538.4	533.4	526.8	521.9	526.8
47.5°	513.6	510.3	500.4	498.7	501.2
50°	488.0	483.8	475.5	473.1	472.2
52.5°	461.5	458.2	449.1	444.1	448.3
55°	431.7	430.1	418.5	416.0	421.0
57.5°	404.4	399.5	389.5	387.1	387.9
60°	373.8	369.7	358.9	355.6	360.6
62.5°	340.7	336.6	325.0	324.2	329.2
65°	310.1	303.5	292.8	293.6	293.6
67.5°	275.4	270.4	261.3	257.2	253.1
70°	239.0	235.7	228.3	215.0	210.9
72.5°	204.3	200.1	193.5	171.2	167.1
75°	168.7	164.6	153.8	138.1	127.4
77.5°	133.2	132.3	117.4	111.6	114.1
80°	100.1	99.2	88.5	97.6	100.9
82.5°	67.8	66.2	72.0	76.9	76.1
85°	39.7	40.5	47.1	48.8	48.8
87.5°	15.7	18.2	21.5	24.0	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)