

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: P392851

Luminaire Tested: **12EN-LD2-27-UNV-L92765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392851
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 (3000K)
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: 2127.8 lumens
Efficiency: N/A
Efficacy: 91.7 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

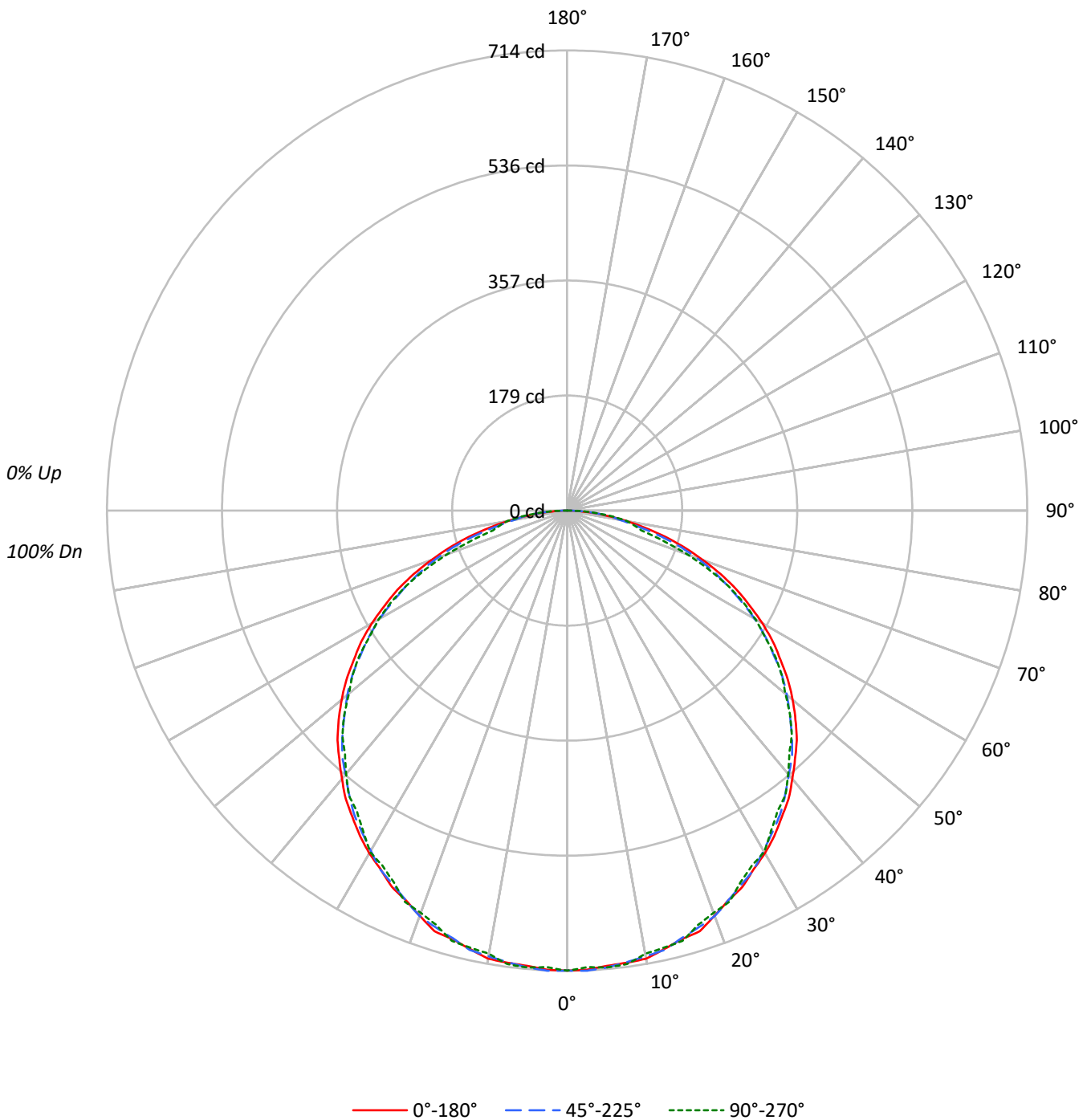
Input Watts (W): 23.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3842	3842	3842
5°	3831	3843	3843
10°	3858	3838	3816
15°	3835	3826	3852
20°	3831	3835	3804
25°	3825	3802	3779
30°	3815	3787	3801
35°	3815	3784	3738
40°	3818	3758	3747
45°	3836	3753	3753
50°	3824	3727	3701
55°	3792	3675	3697
60°	3766	3617	3633
65°	3697	3489	3500
70°	3520	3363	3106
75°	3283	2994	2479
80°	2904	2566	2926
85°	2297	2723	2822



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	3.2
10°-20°	194.2	9.1
20°-30°	295.5	13.9
30°-40°	360.1	16.9
40°-50°	381.6	17.9
50°-60°	353.4	16.6
60°-70°	274.7	12.9
70°-80°	153.3	7.2
80°-90°	47.3	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°	557.3	26.2
0°-40°	917.4	43.1
0°-60°	1652.5	77.7
0°-90°	2127.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2127.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	714	714	714	714	714	
5°	709	711	711	711	711	68
15°	688	687	687	686	691	195
25°	644	642	640	639	636	296
35°	581	578	576	573	569	364
45°	504	499	493	488	493	388
55°	404	403	392	389	394	362
65°	290	284	274	275	275	286
75°	158	154	144	129	119	167
85°	37	38	44	46	46	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	713.8	713.8	713.8	713.8	713.8
2.5°	713.0	712.2	714.5	713.0	709.1
5°	709.1	711.4	711.4	711.4	711.4
7.5°	707.6	706.0	706.8	707.6	709.9
10°	706.0	701.4	702.2	701.4	698.3
12.5°	696.7	696.7	698.3	696.7	694.4
15°	688.2	687.4	686.7	685.9	691.3
17.5°	684.4	678.2	678.2	678.9	674.3
20°	668.9	668.9	669.6	667.3	664.2
22.5°	654.2	656.5	654.2	651.1	657.3
25°	644.1	642.5	640.2	639.4	636.4
27.5°	627.1	628.6	627.8	624.7	620.9
30°	613.9	612.4	609.3	605.4	611.6
32.5°	598.4	596.1	592.2	589.9	589.1
35°	580.6	578.3	576.0	572.9	569.0
37.5°	564.4	560.5	555.8	551.2	556.6
40°	543.5	541.9	534.9	531.8	533.4
42.5°	523.3	521.8	516.4	512.5	510.2
45°	504.0	499.3	493.1	488.5	493.1
47.5°	480.7	477.7	468.4	466.8	469.1
50°	456.7	452.9	445.1	442.8	442.0
52.5°	432.0	428.9	420.4	415.7	419.6
55°	404.1	402.6	391.7	389.4	394.0
57.5°	378.6	373.9	364.6	362.3	363.1
60°	349.9	346.0	336.0	332.9	337.5
62.5°	319.0	315.1	304.2	303.5	308.1
65°	290.3	284.1	274.0	274.8	274.8
67.5°	257.8	253.1	244.6	240.8	236.9
70°	223.7	220.6	213.7	201.3	197.4
72.5°	191.2	187.3	181.2	160.2	156.4
75°	157.9	154.1	144.0	129.3	119.2
77.5°	124.6	123.9	109.9	104.5	106.8
80°	93.7	92.9	82.8	91.3	94.4
82.5°	63.5	61.9	67.4	72.0	71.2
85°	37.2	37.9	44.1	45.7	45.7
87.5°	14.7	17.0	20.1	22.5	21.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)