

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: P392852

Luminaire Tested: **12EN-LD2-27-UNV-L92765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392852  
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 (3500K)  
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: 2176.7 lumens  
Efficiency: N/A  
Efficacy: 93.8 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

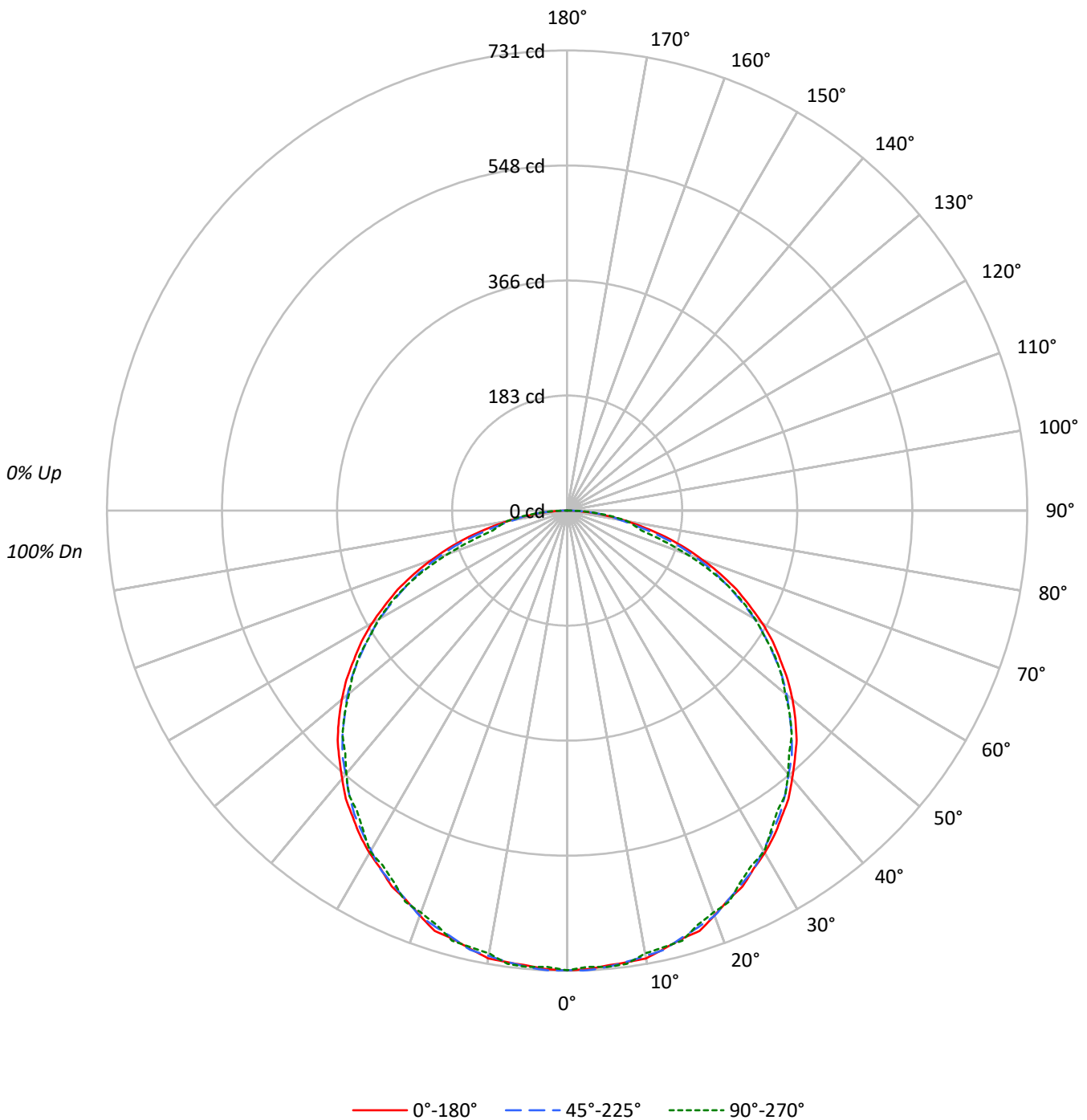
Input Watts (W): 23.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P392852

CATALOG NUMBER: 12EN-LD2-27-UNV-L92765-W2A-1-U (3500K)

### Luminous Intensity Polar Plot





TEST NUMBER: P392852

CATALOG NUMBER: 12EN-LD2-27-UNV-L92765-W2A-1-U (3500K)

**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°	3930	3930	3930
5°	3919	3932	3932
10°	3947	3925	3904
15°	3923	3914	3940
20°	3919	3923	3892
25°	3913	3889	3866
30°	3903	3874	3888
35°	3903	3871	3824
40°	3906	3844	3834
45°	3924	3840	3840
50°	3913	3813	3786
55°	3879	3760	3782
60°	3853	3700	3717
65°	3782	3571	3580
70°	3602	3440	3177
75°	3360	3063	2537
80°	2969	2625	2994
85°	2347	2785	2884



TEST NUMBER: P392852

CATALOG NUMBER: 12EN-LD2-27-UNV-L92765-W2A-1-U (3500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.1	3.2
10°-20°	198.7	9.1
20°-30°	302.3	13.9
30°-40°	368.4	16.9
40°-50°	390.4	17.9
50°-60°	361.5	16.6
60°-70°	281.0	12.9
70°-80°	156.9	7.2
80°-90°	48.4	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°	570.1	26.2
0°-40°	938.5	43.1
0°-60°	1690.5	77.7
0°-90°	2176.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2176.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	730	730	730	730	730	
5°	725	728	728	728	728	69
15°	704	703	702	702	707	199
25°	659	657	655	654	651	303
35°	594	592	589	586	582	372
45°	516	511	504	500	504	397
55°	413	412	401	398	403	370
65°	297	291	280	281	281	292
75°	162	158	147	132	122	171
85°	38	39	45	47	47	45
90°	0	0	0	0	0	



TEST NUMBER: P392852

CATALOG NUMBER: 12EN-LD2-27-UNV-L92765-W2A-1-U (3500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	730.2	730.2	730.2	730.2	730.2
2.5°	729.4	728.6	731.0	729.4	725.4
5°	725.4	727.8	727.8	727.8	727.8
7.5°	723.8	722.3	723.1	723.8	726.2
10°	722.3	717.5	718.3	717.5	714.3
12.5°	712.8	712.8	714.3	712.8	710.4
15°	704.0	703.3	702.5	701.7	707.2
17.5°	700.1	693.7	693.7	694.5	689.8
20°	684.2	684.2	685.0	682.7	679.5
22.5°	669.2	671.6	669.2	666.0	672.4
25°	658.9	657.3	654.9	654.2	651.0
27.5°	641.5	643.1	642.3	639.1	635.1
30°	628.0	626.4	623.3	619.3	625.6
32.5°	612.2	609.8	605.8	603.5	602.7
35°	594.0	591.6	589.2	586.0	582.1
37.5°	577.3	573.4	568.6	563.9	569.4
40°	556.0	554.4	547.2	544.1	545.7
42.5°	535.4	533.8	528.2	524.3	521.9
45°	515.6	510.8	504.5	499.7	504.5
47.5°	491.8	488.6	479.1	477.5	479.9
50°	467.3	463.3	455.4	453.0	452.2
52.5°	441.9	438.7	430.0	425.3	429.2
55°	413.4	411.8	400.7	398.4	403.1
57.5°	387.3	382.5	373.0	370.6	371.4
60°	358.0	354.0	343.7	340.5	345.3
62.5°	326.3	322.3	311.2	310.4	315.2
65°	297.0	290.6	280.4	281.1	281.1
67.5°	263.7	259.0	250.3	246.3	242.3
70°	228.9	225.7	218.6	205.9	201.9
72.5°	195.6	191.7	185.3	163.9	160.0
75°	161.6	157.6	147.3	132.3	122.0
77.5°	127.5	126.7	112.5	106.9	109.3
80°	95.8	95.0	84.7	93.5	96.6
82.5°	64.9	63.4	68.9	73.7	72.9
85°	38.0	38.8	45.1	46.7	46.7
87.5°	15.0	17.4	20.6	23.0	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)