

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: P392840

Luminaire Tested: **12EN-LD2-27-UNV-L82765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392840  
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-L82765-W2A-1-U (5700K)  
Description: 1X2 ENCOUNTER, 2700 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2649.1 lumens  
Efficiency: N/A  
Efficacy: 114.7 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

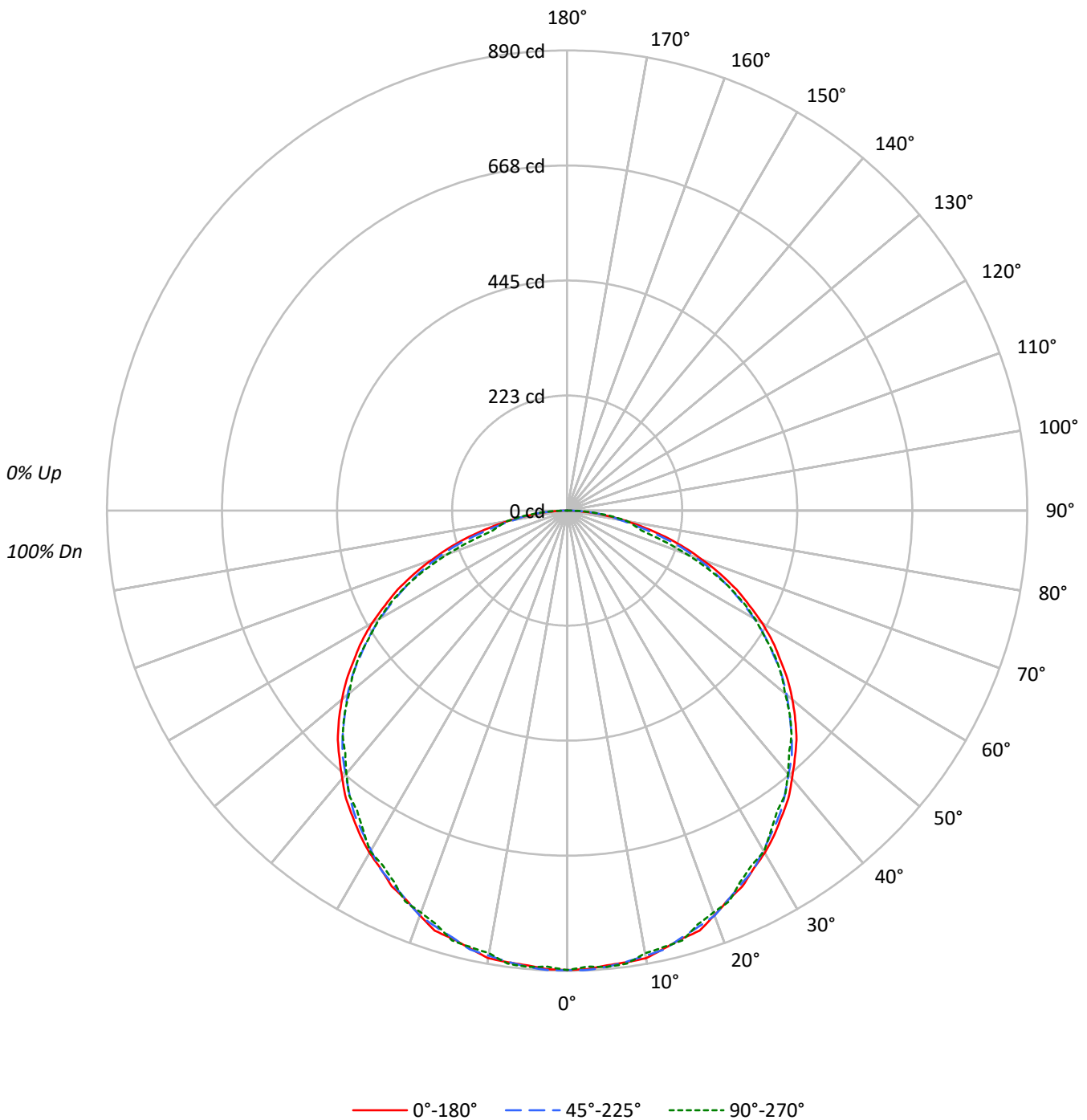
Input Watts (W): 23.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4782	4782	4782
5°	4770	4785	4785
10°	4804	4777	4751
15°	4774	4763	4796
20°	4769	4775	4737
25°	4762	4733	4705
30°	4750	4714	4732
35°	4750	4711	4654
40°	4754	4679	4666
45°	4775	4673	4673
50°	4762	4640	4608
55°	4721	4576	4603
60°	4689	4503	4523
65°	4602	4345	4358
70°	4382	4186	3868
75°	4088	3728	3086
80°	3614	3195	3645
85°	2859	3390	3514



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.1	3.2
10°-20°	241.8	9.1
20°-30°	367.9	13.9
30°-40°	448.4	16.9
40°-50°	475.1	17.9
50°-60°	440.0	16.6
60°-70°	342.0	12.9
70°-80°	190.9	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°	693.8	26.2
0°-40°	1142.2	43.1
0°-60°	2057.3	77.7
0°-90°	2649.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2649.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	889	889	889	889	889	
5°	883	886	886	886	886	84
15°	857	856	855	854	861	243
25°	802	800	797	796	792	369
35°	723	720	717	713	708	453
45°	627	622	614	608	614	483
55°	503	501	488	485	491	451
65°	361	354	341	342	342	356
75°	197	192	179	161	148	208
85°	46	47	55	57	57	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	888.6	888.6	888.6	888.6	888.6
2.5°	887.7	886.7	889.6	887.7	882.9
5°	882.9	885.7	885.7	885.7	885.7
7.5°	880.9	879.0	880.0	880.9	883.8
10°	879.0	873.2	874.2	873.2	869.4
12.5°	867.4	867.4	869.4	867.4	864.5
15°	856.8	855.9	854.9	853.9	860.7
17.5°	852.0	844.3	844.3	845.3	839.5
20°	832.7	832.7	833.7	830.8	827.0
22.5°	814.4	817.3	814.4	810.6	818.3
25°	801.9	800.0	797.1	796.1	792.3
27.5°	780.7	782.6	781.7	777.8	773.0
30°	764.3	762.4	758.5	753.7	761.4
32.5°	745.0	742.1	737.3	734.4	733.5
35°	722.9	720.0	717.1	713.2	708.4
37.5°	702.6	697.8	692.0	686.2	693.0
40°	676.6	674.7	666.0	662.1	664.1
42.5°	651.5	649.6	642.9	638.0	635.2
45°	627.4	621.7	614.0	608.2	614.0
47.5°	598.5	594.7	583.1	581.2	584.1
50°	568.7	563.8	554.2	551.3	550.3
52.5°	537.8	534.0	523.4	517.6	522.4
55°	503.1	501.2	487.7	484.8	490.6
57.5°	471.3	465.5	454.0	451.1	452.0
60°	435.6	430.8	418.3	414.4	420.2
62.5°	397.1	392.3	378.8	377.8	383.6
65°	361.4	353.7	341.2	342.2	342.2
67.5°	321.0	315.2	304.6	299.7	294.9
70°	278.5	274.7	266.0	250.6	245.8
72.5°	238.1	233.2	225.5	199.5	194.7
75°	196.6	191.8	179.3	161.0	148.4
77.5°	155.2	154.2	136.9	130.1	133.0
80°	116.6	115.7	103.1	113.7	117.6
82.5°	79.0	77.1	83.9	89.6	88.7
85°	46.3	47.2	54.9	56.9	56.9
87.5°	18.3	21.2	25.1	28.0	27.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)