

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: P392839

Luminaire Tested: **12EN-LD2-27-UNV-L82765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392839  
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 (5000K)  
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: 2639.3 lumens  
Efficiency: N/A  
Efficacy: 113.8 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

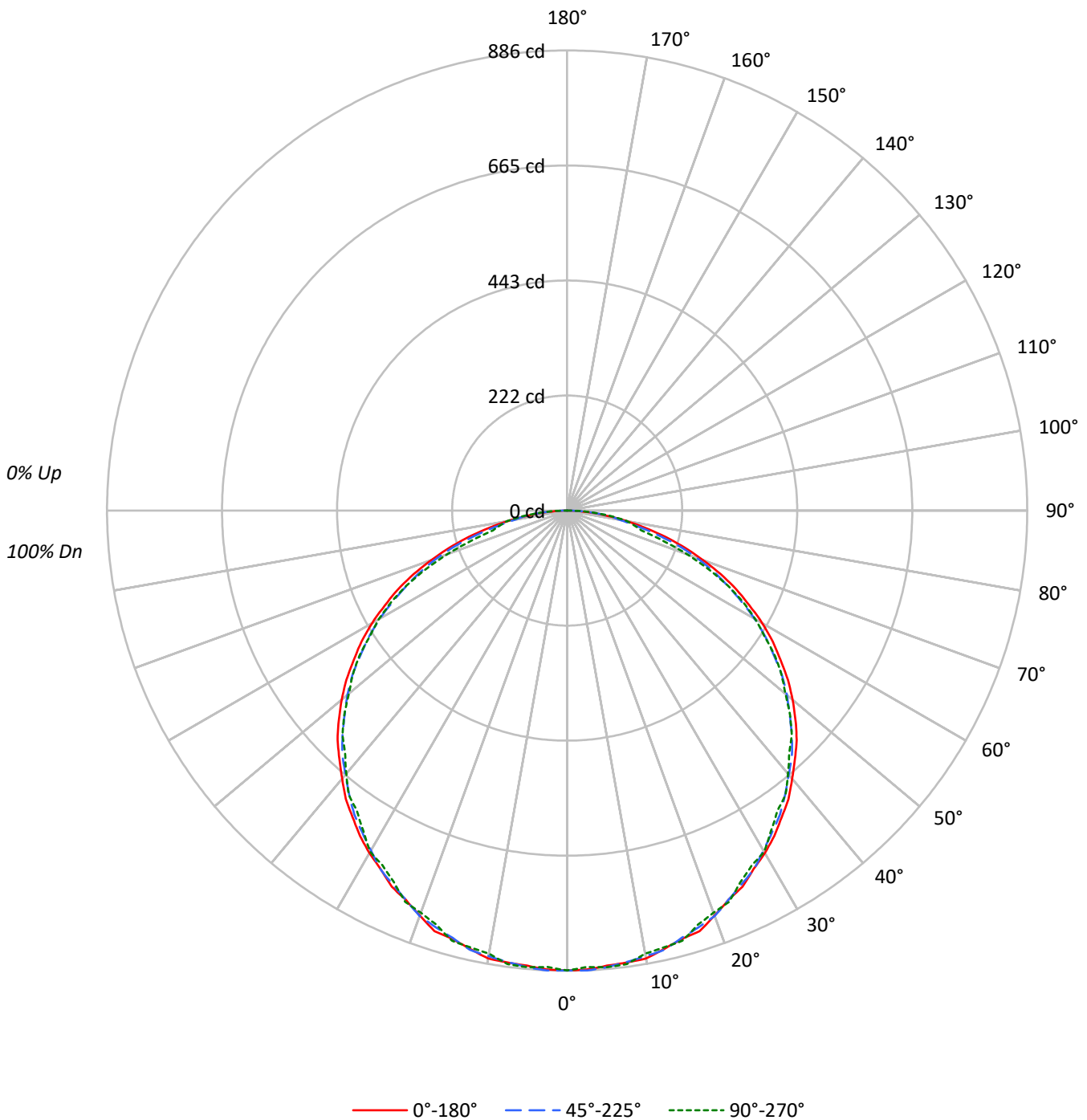
Input Watts (W): 23.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4765	4765	4765
5°	4752	4768	4768
10°	4786	4760	4734
15°	4757	4746	4778
20°	4752	4757	4719
25°	4744	4716	4687
30°	4732	4696	4714
35°	4732	4694	4637
40°	4736	4662	4648
45°	4758	4656	4656
50°	4744	4623	4591
55°	4704	4559	4586
60°	4672	4486	4507
65°	4586	4329	4341
70°	4367	4170	3854
75°	4074	3714	3075
80°	3601	3183	3632
85°	2847	3378	3501



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.8	3.2
10°-20°	240.9	9.1
20°-30°	366.5	13.9
30°-40°	446.7	16.9
40°-50°	473.3	17.9
50°-60°	438.4	16.6
60°-70°	340.7	12.9
70°-80°	190.2	7.2
80°-90°	58.7	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°	691.3	26.2
0°-40°	1138.0	43.1
0°-60°	2049.7	77.7
0°-90°	2639.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2639.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	885	885	885	885	885	
5°	880	882	882	882	882	84
15°	854	853	852	851	858	242
25°	799	797	794	793	789	367
35°	720	717	714	711	706	451
45°	625	619	612	606	612	481
55°	501	499	486	483	489	449
65°	360	352	340	341	341	354
75°	196	191	179	160	148	207
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°	885.4	885.4	885.4	885.4	885.4
2.5°	884.4	883.4	886.3	884.4	879.6
5°	879.6	882.5	882.5	882.5	882.5
7.5°	877.7	875.8	876.7	877.7	880.6
10°	875.8	870.0	871.0	870.0	866.2
12.5°	864.2	864.2	866.2	864.2	861.4
15°	853.7	852.7	851.8	850.8	857.5
17.5°	848.9	841.2	841.2	842.2	836.4
20°	829.7	829.7	830.6	827.8	823.9
22.5°	811.4	814.3	811.4	807.6	815.3
25°	798.9	797.0	794.1	793.2	789.3
27.5°	777.8	779.7	778.8	774.9	770.1
30°	761.5	759.6	755.7	750.9	758.6
32.5°	742.3	739.4	734.6	731.7	730.8
35°	720.2	717.3	714.4	710.6	705.8
37.5°	700.0	695.2	689.5	683.7	690.4
40°	674.1	672.2	663.5	659.7	661.6
42.5°	649.1	647.2	640.5	635.7	632.8
45°	625.1	619.4	611.7	605.9	611.7
47.5°	596.3	592.5	581.0	579.0	581.9
50°	566.6	561.8	552.2	549.3	548.3
52.5°	535.8	532.0	521.4	515.7	520.5
55°	501.3	499.3	485.9	483.0	488.8
57.5°	469.6	463.8	452.3	449.4	450.4
60°	434.0	429.2	416.8	412.9	418.7
62.5°	395.6	390.8	377.4	376.4	382.2
65°	360.1	352.4	339.9	340.9	340.9
67.5°	319.8	314.0	303.4	298.6	293.8
70°	277.5	273.7	265.0	249.7	244.9
72.5°	237.2	232.4	224.7	198.8	194.0
75°	195.9	191.1	178.6	160.4	147.9
77.5°	154.6	153.6	136.4	129.6	132.5
80°	116.2	115.2	102.7	113.3	117.2
82.5°	78.7	76.8	83.5	89.3	88.3
85°	46.1	47.1	54.7	56.7	56.7
87.5°	18.2	21.1	25.0	27.8	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)