

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: P392862

Luminaire Tested: **12EN-LD2-27-UNV-L93050-W2A-1-U (4500K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392862  
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-L93050-W2A-1-U (4500K)  
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: 2413.5 lumens  
Efficiency: N/A  
Efficacy: 104.9 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

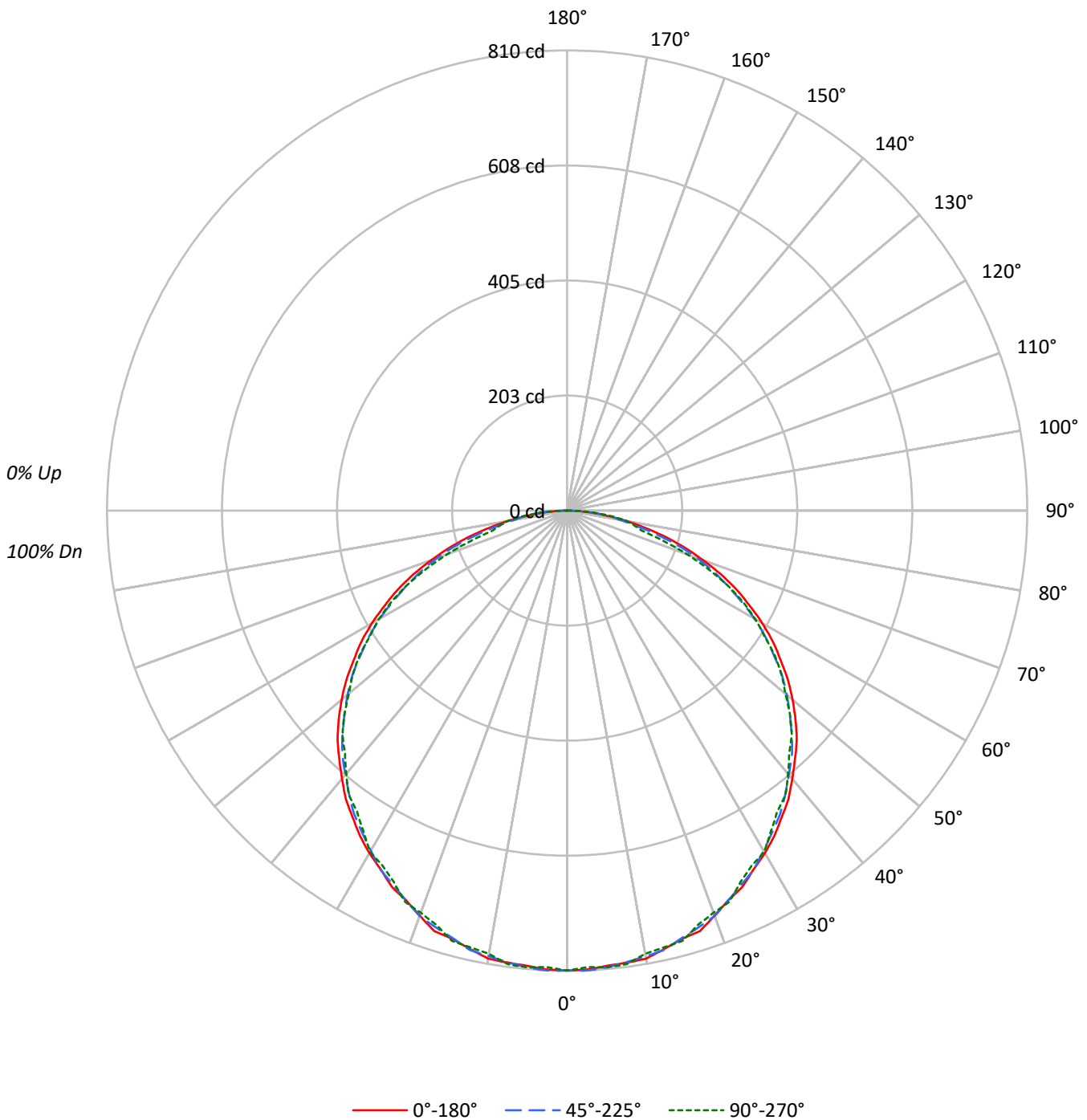
Input Watts (W): 23  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4357	4357	4357
5°	4345	4360	4360
10°	4376	4352	4328
15°	4349	4340	4369
20°	4345	4350	4315
25°	4339	4312	4286
30°	4327	4295	4311
35°	4327	4292	4240
40°	4331	4263	4251
45°	4351	4257	4257
50°	4338	4227	4198
55°	4301	4169	4193
60°	4272	4102	4120
65°	4194	3958	3969
70°	3994	3814	3523
75°	3724	3396	2811
80°	3292	2913	3319
85°	2600	3094	3199



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.6	3.2
10°-20°	220.3	9.1
20°-30°	335.2	13.9
30°-40°	408.5	16.9
40°-50°	432.8	17.9
50°-60°	400.9	16.6
60°-70°	311.5	12.9
70°-80°	173.9	7.2
80°-90°	53.7	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°	632.1	26.2
0°-40°	1040.6	43.1
0°-60°	1874.3	77.7
0°-90°	2413.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2413.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	810	810	810	810	810	
5°	804	807	807	807	807	77
15°	781	780	779	778	784	221
25°	731	729	726	725	722	336
35°	659	656	653	650	645	413
45°	572	566	559	554	559	440
55°	458	457	444	442	447	411
65°	329	322	311	312	312	324
75°	179	175	163	147	135	189
85°	42	43	50	52	52	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	809.6	809.6	809.6	809.6	809.6
2.5°	808.7	807.8	810.5	808.7	804.3
5°	804.3	807.0	807.0	807.0	807.0
7.5°	802.6	800.8	801.7	802.6	805.2
10°	800.8	795.5	796.4	795.5	792.0
12.5°	790.3	790.3	792.0	790.3	787.6
15°	780.6	779.7	778.9	778.0	784.1
17.5°	776.2	769.2	769.2	770.1	764.8
20°	758.7	758.7	759.5	756.9	753.4
22.5°	742.0	744.6	742.0	738.5	745.5
25°	730.6	728.8	726.2	725.3	721.8
27.5°	711.2	713.0	712.1	708.6	704.2
30°	696.3	694.6	691.1	686.7	693.7
32.5°	678.8	676.1	671.7	669.1	668.2
35°	658.6	655.9	653.3	649.8	645.4
37.5°	640.1	635.7	630.5	625.2	631.3
40°	616.4	614.7	606.8	603.2	605.0
42.5°	593.6	591.8	585.7	581.3	578.7
45°	571.6	566.4	559.3	554.1	559.3
47.5°	545.3	541.8	531.2	529.5	532.1
50°	518.1	513.7	504.9	502.3	501.4
52.5°	490.0	486.5	476.8	471.5	475.9
55°	458.4	456.6	444.3	441.7	446.9
57.5°	429.4	424.1	413.6	410.9	411.8
60°	396.9	392.5	381.1	377.6	382.8
62.5°	361.8	357.4	345.1	344.2	349.5
65°	329.3	322.3	310.8	311.7	311.7
67.5°	292.4	287.1	277.5	273.1	268.7
70°	253.8	250.3	242.4	228.3	223.9
72.5°	216.9	212.5	205.5	181.8	177.4
75°	179.1	174.7	163.3	146.6	135.2
77.5°	141.4	140.5	124.7	118.5	121.2
80°	106.2	105.4	94.0	103.6	107.1
82.5°	72.0	70.2	76.4	81.7	80.8
85°	42.1	43.0	50.1	51.8	51.8
87.5°	16.7	19.3	22.8	25.5	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)