

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: P392849

Luminaire Tested: **12EN-LD2-27-UNV-L83050-W2A-1-U (6500K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392849  
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-L83050-W2A-1-U (6500K)  
Description: 1X2 ENCOUNTER, 2700 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2800.4 lumens  
Efficiency: N/A  
Efficacy: 120.7 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

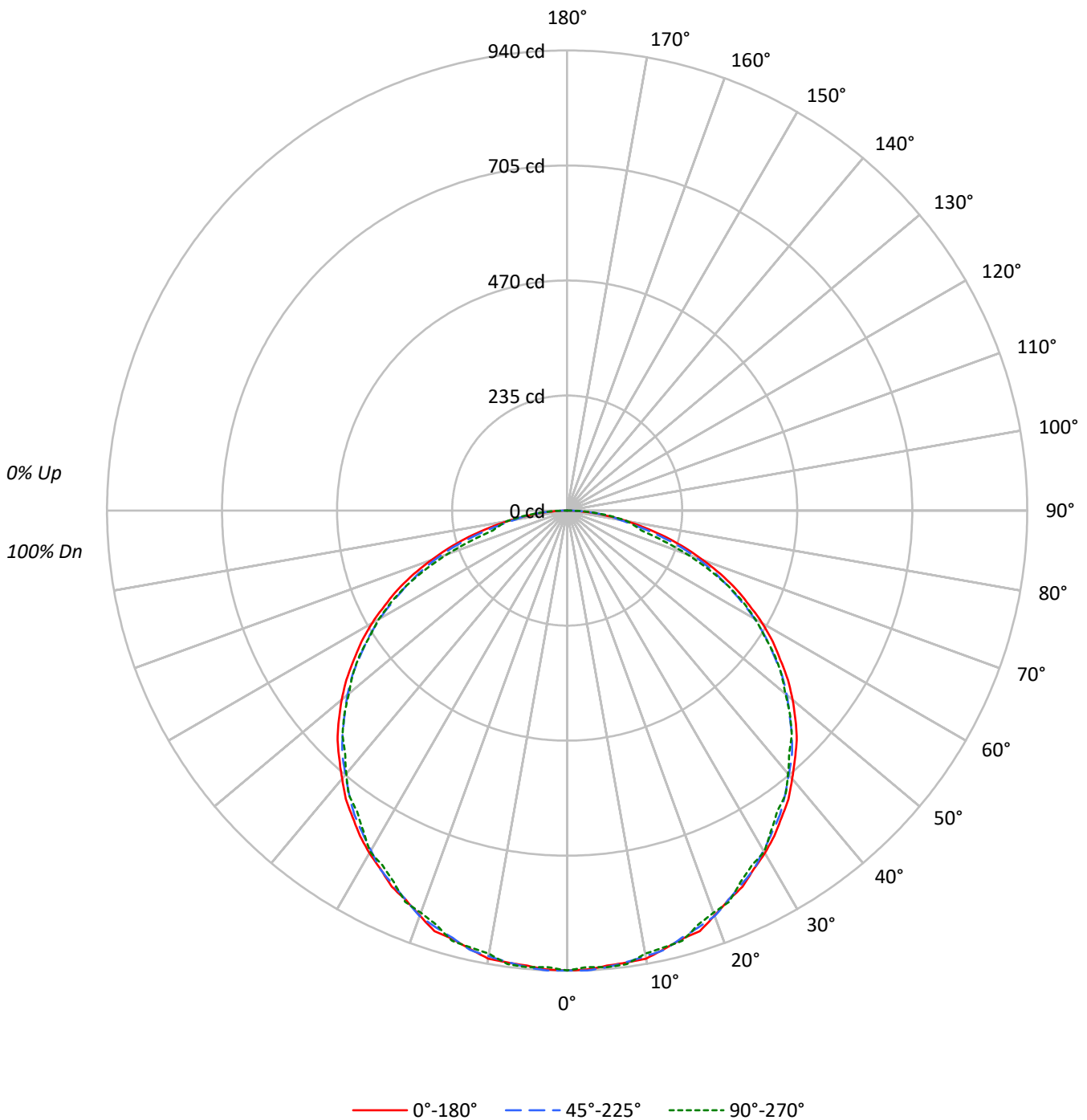
Input Watts (W): 23.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	5056	5056	5056
5°	5042	5058	5058
10°	5078	5050	5022
15°	5047	5035	5069
20°	5042	5048	5007
25°	5034	5004	4973
30°	5021	4983	5002
35°	5020	4980	4920
40°	5025	4946	4932
45°	5049	4940	4940
50°	5033	4905	4871
55°	4990	4837	4866
60°	4957	4760	4781
65°	4866	4593	4606
70°	4634	4425	4088
75°	4321	3941	3263
80°	3821	3378	3852
85°	3020	3588	3711



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.9	3.2
10°-20°	255.6	9.1
20°-30°	388.9	13.9
30°-40°	474.0	16.9
40°-50°	502.2	17.9
50°-60°	465.1	16.6
60°-70°	361.5	12.9
70°-80°	201.8	7.2
80°-90°	62.3	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°	733.5	26.2
0°-40°	1207.4	43.1
0°-60°	2174.8	77.7
0°-90°	2800.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2800.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	939	939	939	939	939	
5°	933	936	936	936	936	89
15°	906	905	904	903	910	257
25°	848	846	843	842	838	390
35°	764	761	758	754	749	479
45°	663	657	649	643	649	511
55°	532	530	516	512	519	476
65°	382	374	361	362	362	376
75°	208	203	190	170	157	219
85°	49	50	58	60	60	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	939.4	939.4	939.4	939.4	939.4
2.5°	938.4	937.4	940.4	938.4	933.3
5°	933.3	936.3	936.3	936.3	936.3
7.5°	931.2	929.2	930.2	931.2	934.3
10°	929.2	923.1	924.1	923.1	919.0
12.5°	917.0	917.0	919.0	917.0	913.9
15°	905.8	904.8	903.7	902.7	909.8
17.5°	900.7	892.5	892.5	893.5	887.4
20°	880.3	880.3	881.3	878.3	874.2
22.5°	860.9	864.0	860.9	856.9	865.0
25°	847.7	845.7	842.6	841.6	837.5
27.5°	825.3	827.3	826.3	822.2	817.1
30°	808.0	805.9	801.8	796.8	804.9
32.5°	787.6	784.5	779.4	776.4	775.4
35°	764.1	761.1	758.0	754.0	748.9
37.5°	742.8	737.7	731.5	725.4	732.6
40°	715.2	713.2	704.0	700.0	702.0
42.5°	688.8	686.7	679.6	674.5	671.4
45°	663.3	657.2	649.0	642.9	649.0
47.5°	632.7	628.6	616.4	614.4	617.4
50°	601.1	596.0	585.8	582.8	581.8
52.5°	568.5	564.5	553.2	547.1	552.2
55°	531.8	529.8	515.5	512.5	518.6
57.5°	498.2	492.1	479.9	476.8	477.8
60°	460.5	455.4	442.2	438.1	444.2
62.5°	419.8	414.7	400.4	399.4	405.5
65°	382.1	373.9	360.7	361.7	361.7
67.5°	339.3	333.2	322.0	316.9	311.8
70°	294.5	290.4	281.2	264.9	259.8
72.5°	251.7	246.6	238.4	210.9	205.8
75°	207.8	202.8	189.5	170.2	156.9
77.5°	164.0	163.0	144.7	137.5	140.6
80°	123.3	122.3	109.0	120.2	124.3
82.5°	83.5	81.5	88.6	94.8	93.7
85°	48.9	49.9	58.1	60.1	60.1
87.5°	19.4	22.4	26.5	29.5	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)