

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: P392860

Luminaire Tested: **12EN-LD2-27-UNV-L93050-W2A-1-U (3500K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392860  
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 (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: 2311.3 lumens  
Efficiency: N/A  
Efficacy: 99.6 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

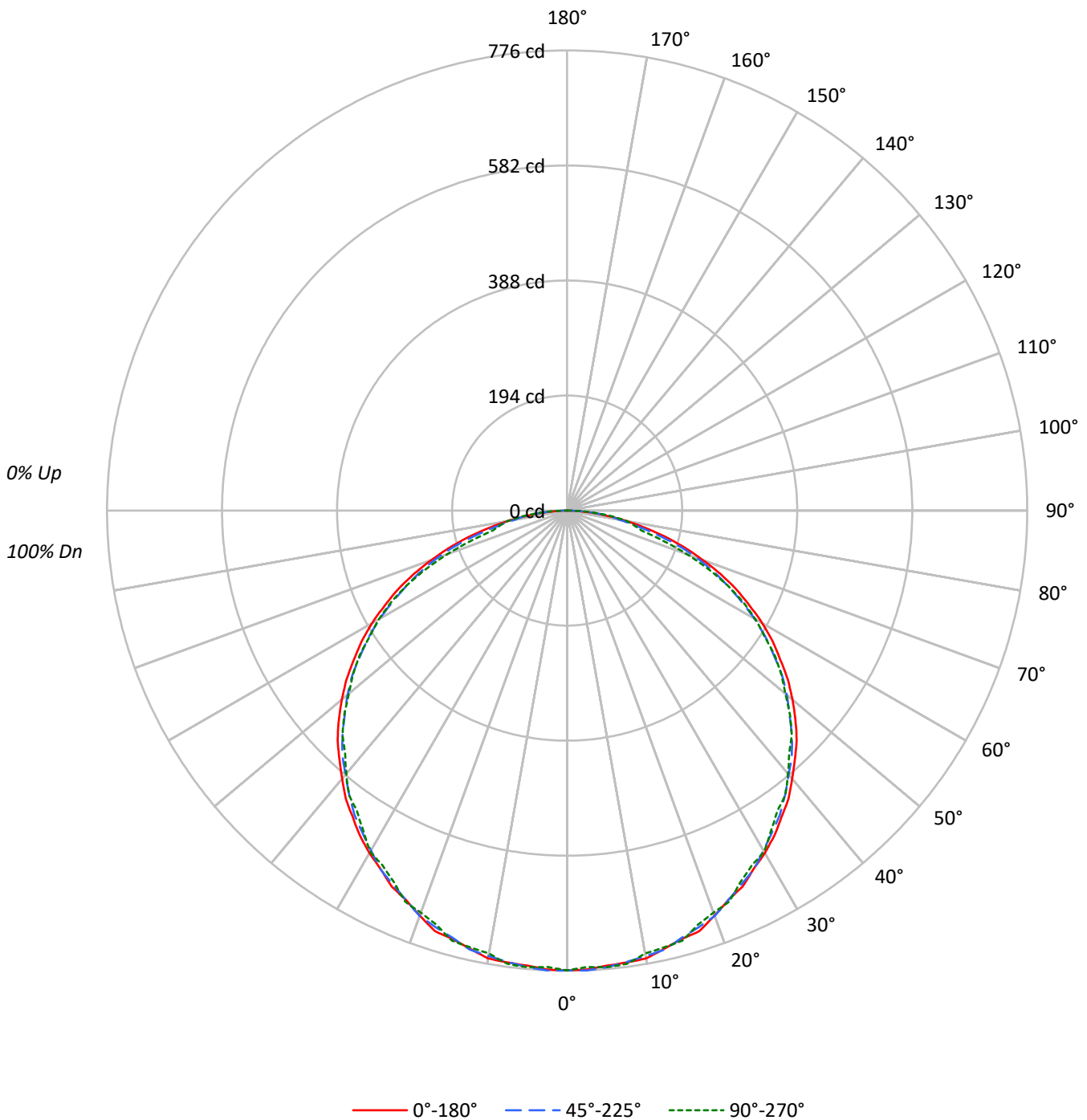
Input Watts (W): 23.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4173	4173	4173
5°	4162	4175	4175
10°	4191	4168	4145
15°	4165	4156	4184
20°	4161	4166	4132
25°	4155	4130	4105
30°	4144	4113	4128
35°	4144	4110	4061
40°	4147	4083	4071
45°	4166	4077	4077
50°	4154	4048	4021
55°	4119	3993	4016
60°	4091	3929	3946
65°	4015	3791	3801
70°	3824	3652	3374
75°	3566	3252	2693
80°	3155	2789	3180
85°	2495	2958	3063



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.4	3.2
10°-20°	211.0	9.1
20°-30°	321.0	13.9
30°-40°	391.2	16.9
40°-50°	414.5	17.9
50°-60°	383.9	16.6
60°-70°	298.3	12.9
70°-80°	166.5	7.2
80°-90°	51.4	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°	605.4	26.2
0°-40°	996.6	43.1
0°-60°	1795.0	77.7
0°-90°	2311.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2311.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	770	773	773	773	773	73
15°	748	747	746	745	751	212
25°	700	698	695	695	691	322
35°	631	628	626	622	618	395
45°	547	542	536	531	536	421
55°	439	437	426	423	428	393
65°	315	309	298	298	298	310
75°	172	167	156	140	130	181
85°	40	41	48	50	50	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	775.3	775.3	775.3	775.3	775.3
2.5°	774.5	773.7	776.2	774.5	770.3
5°	770.3	772.8	772.8	772.8	772.8
7.5°	768.6	766.9	767.8	768.6	771.1
10°	766.9	761.9	762.7	761.9	758.5
12.5°	756.8	756.8	758.5	756.8	754.3
15°	747.6	746.7	745.9	745.1	750.9
17.5°	743.4	736.7	736.7	737.5	732.4
20°	726.6	726.6	727.4	724.9	721.5
22.5°	710.6	713.1	710.6	707.2	713.9
25°	699.7	698.0	695.4	694.6	691.2
27.5°	681.2	682.8	682.0	678.6	674.4
30°	666.9	665.2	661.8	657.6	664.3
32.5°	650.0	647.5	643.3	640.8	639.9
35°	630.7	628.2	625.6	622.3	618.1
37.5°	613.0	608.8	603.8	598.7	604.6
40°	590.3	588.6	581.1	577.7	579.4
42.5°	568.5	566.8	560.9	556.7	554.2
45°	547.4	542.4	535.7	530.6	535.7
47.5°	522.2	518.9	508.8	507.1	509.6
50°	496.1	491.9	483.5	481.0	480.2
52.5°	469.2	465.9	456.6	451.6	455.8
55°	439.0	437.3	425.5	423.0	428.0
57.5°	411.2	406.2	396.1	393.6	394.4
60°	380.1	375.9	365.0	361.6	366.6
62.5°	346.5	342.3	330.5	329.6	334.7
65°	315.3	308.6	297.7	298.5	298.5
67.5°	280.0	275.0	265.7	261.5	257.3
70°	243.0	239.7	232.1	218.6	214.4
72.5°	207.7	203.5	196.8	174.1	169.9
75°	171.5	167.3	156.4	140.4	129.5
77.5°	135.4	134.5	119.4	113.5	116.0
80°	101.8	100.9	90.0	99.2	102.6
82.5°	69.0	67.3	73.2	78.2	77.4
85°	40.4	41.2	47.9	49.6	49.6
87.5°	16.0	18.5	21.9	24.4	23.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)