

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: P392861

Luminaire Tested: **12EN-LD2-27-UNV-L93050-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392861
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 (4000K)
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: 2400.9 lumens
Efficiency: N/A
Efficacy: 103.9 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

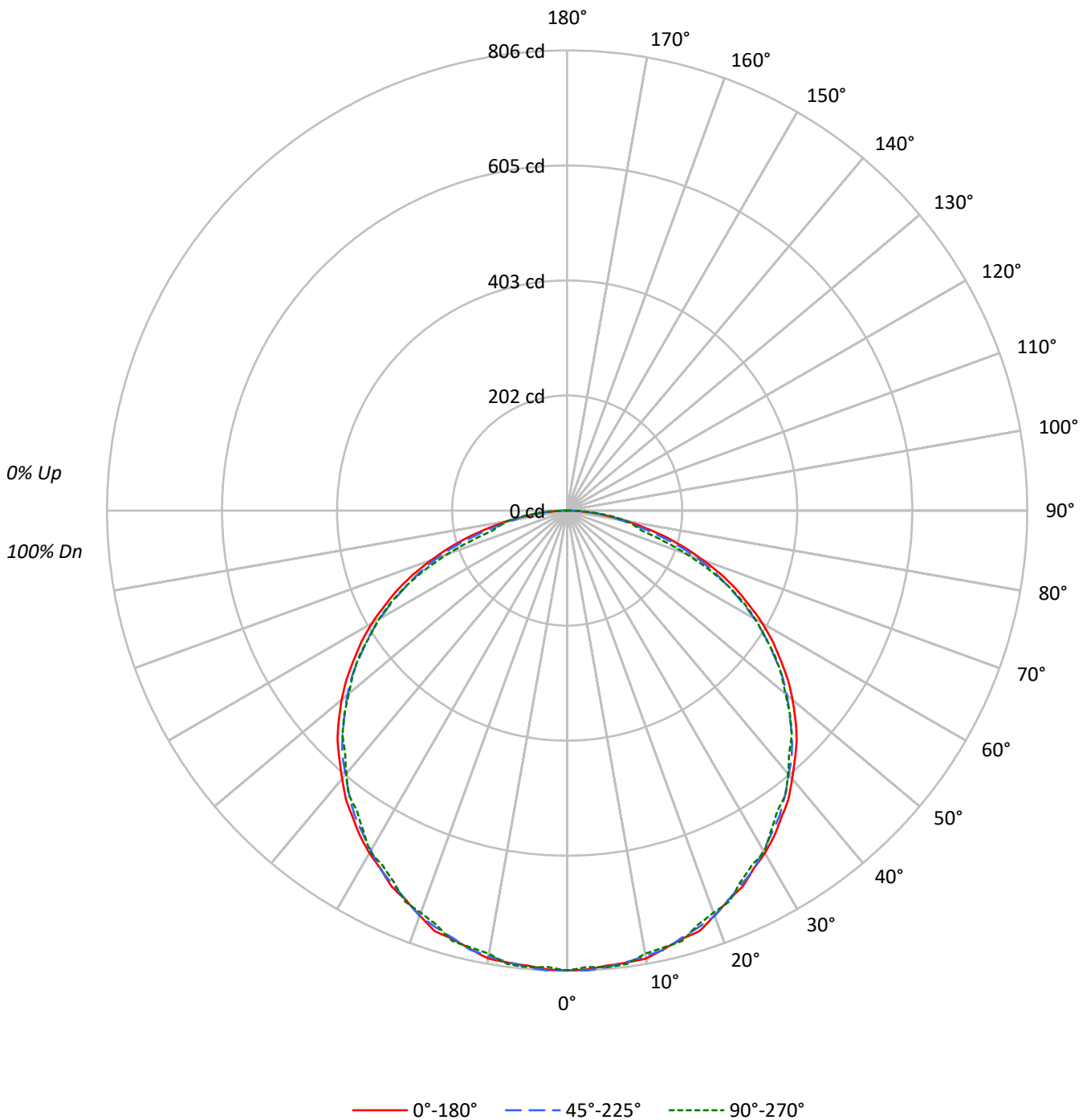
Input Watts (W): 23.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4335	4335	4335
5°	4323	4337	4337
10°	4353	4330	4306
15°	4327	4317	4346
20°	4322	4328	4293
25°	4316	4290	4264
30°	4305	4272	4289
35°	4304	4270	4218
40°	4308	4241	4228
45°	4329	4235	4235
50°	4315	4206	4176
55°	4279	4147	4172
60°	4250	4081	4099
65°	4172	3938	3949
70°	3972	3794	3504
75°	3706	3379	2797
80°	3276	2898	3304
85°	2587	3075	3180



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.2	3.2
10°-20°	219.2	9.1
20°-30°	333.4	13.9
30°-40°	406.4	16.9
40°-50°	430.6	17.9
50°-60°	398.8	16.6
60°-70°	309.9	12.9
70°-80°	173.0	7.2
80°-90°	53.4	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°	628.8	26.2
0°-40°	1035.2	43.1
0°-60°	1864.5	77.7
0°-90°	2400.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2400.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	805	805	805	805	805	
5°	800	803	803	803	803	76
15°	776	776	775	774	780	220
25°	727	725	722	722	718	334
35°	655	652	650	646	642	411
45°	569	563	556	551	556	438
55°	456	454	442	439	445	408
65°	328	321	309	310	310	322
75°	178	174	162	146	134	188
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°	805.4	805.4	805.4	805.4	805.4
2.5°	804.5	803.6	806.2	804.5	800.1
5°	800.1	802.8	802.8	802.8	802.8
7.5°	798.4	796.6	797.5	798.4	801.0
10°	796.6	791.4	792.3	791.4	787.9
12.5°	786.2	786.2	787.9	786.2	783.5
15°	776.5	775.7	774.8	773.9	780.0
17.5°	772.2	765.2	765.2	766.1	760.8
20°	754.7	754.7	755.6	753.0	749.5
22.5°	738.1	740.7	738.1	734.6	741.6
25°	726.8	725.0	722.4	721.5	718.0
27.5°	707.5	709.3	708.4	704.9	700.6
30°	692.7	690.9	687.4	683.1	690.1
32.5°	675.2	672.6	668.2	665.6	664.7
35°	655.1	652.5	649.9	646.4	642.0
37.5°	636.8	632.4	627.2	621.9	628.1
40°	613.2	611.5	603.6	600.1	601.8
42.5°	590.5	588.7	582.6	578.3	575.6
45°	568.7	563.4	556.4	551.2	556.4
47.5°	542.4	539.0	528.5	526.7	529.3
50°	515.4	511.0	502.3	499.6	498.8
52.5°	487.4	483.9	474.3	469.1	473.4
55°	456.0	454.2	442.0	439.4	444.6
57.5°	427.1	421.9	411.4	408.8	409.7
60°	394.8	390.5	379.1	375.6	380.8
62.5°	359.9	355.5	343.3	342.4	347.7
65°	327.6	320.6	309.2	310.1	310.1
67.5°	290.9	285.6	276.0	271.7	267.3
70°	252.4	248.9	241.1	227.1	222.7
72.5°	215.8	211.4	204.4	180.8	176.4
75°	178.2	173.8	162.5	145.9	134.5
77.5°	140.6	139.8	124.0	117.9	120.5
80°	105.7	104.8	93.5	103.1	106.6
82.5°	71.6	69.9	76.0	81.2	80.4
85°	41.9	42.8	49.8	51.5	51.5
87.5°	16.6	19.2	22.7	25.3	24.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)