

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: P392858

Luminaire Tested: **12EN-LD2-27-UNV-L93050-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392858
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 (2700K)
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: 2373.2 lumens
Efficiency: N/A
Efficacy: 102.3 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

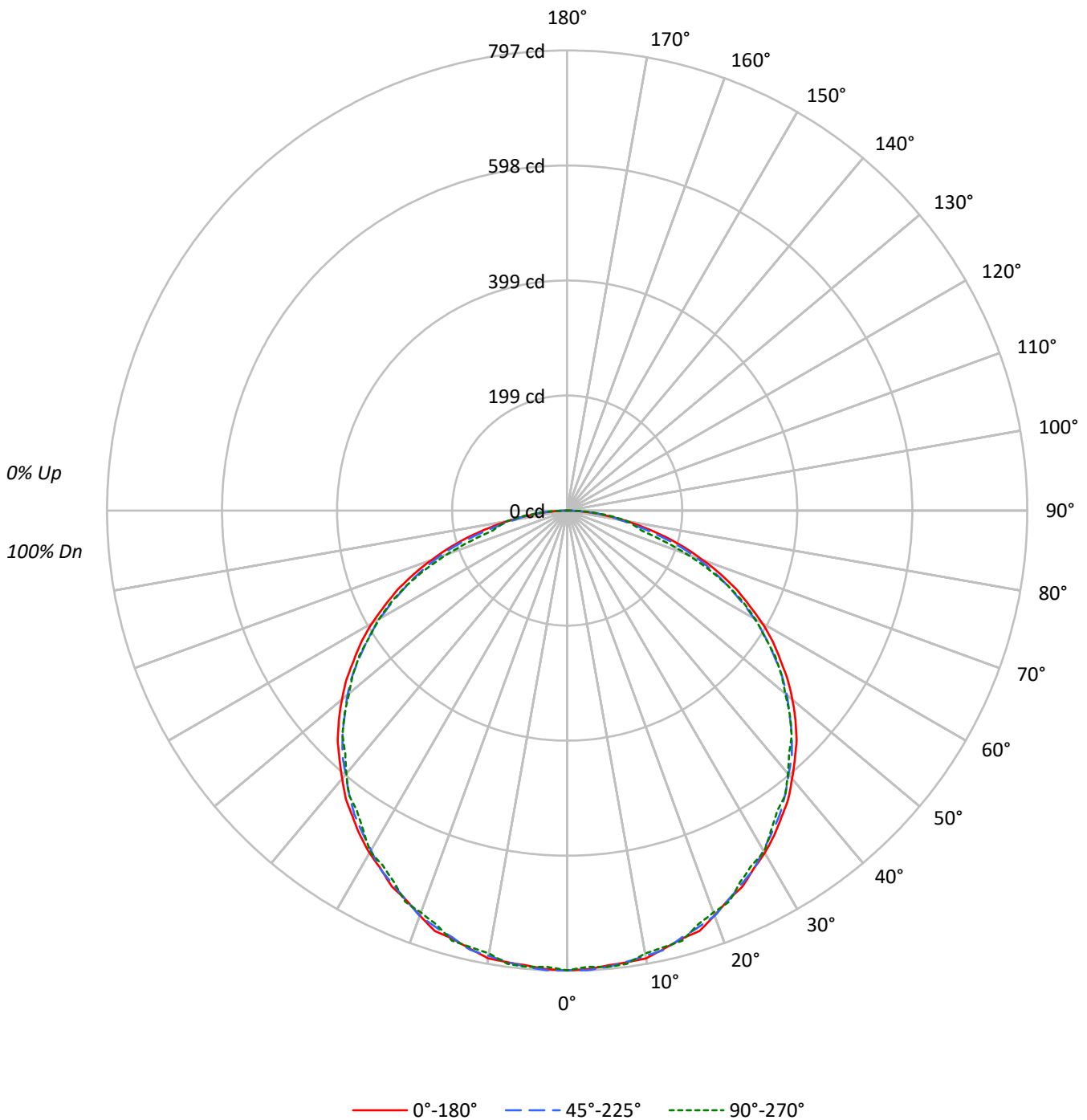
Input Watts (W): 23.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4285	4285	4285
5°	4273	4287	4287
10°	4303	4280	4256
15°	4277	4267	4296
20°	4273	4278	4243
25°	4266	4241	4214
30°	4255	4223	4239
35°	4255	4221	4169
40°	4258	4192	4180
45°	4278	4186	4186
50°	4265	4157	4128
55°	4229	4100	4124
60°	4201	4033	4053
65°	4124	3893	3903
70°	3926	3750	3465
75°	3662	3340	2766
80°	3239	2864	3264
85°	2556	3038	3143



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.4	3.2
10°-20°	216.6	9.1
20°-30°	329.6	13.9
30°-40°	401.7	16.9
40°-50°	425.6	17.9
50°-60°	394.2	16.6
60°-70°	306.3	12.9
70°-80°	171.0	7.2
80°-90°	52.8	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°	621.6	26.2
0°-40°	1023.2	43.1
0°-60°	1843.0	77.7
0°-90°	2373.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2373.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	796	796	796	796	796	
5°	791	794	794	794	794	75
15°	768	767	766	765	771	217
25°	718	717	714	713	710	330
35°	648	645	642	639	635	406
45°	562	557	550	545	550	433
55°	451	449	437	434	440	404
65°	324	317	306	306	306	318
75°	176	172	161	144	133	186
85°	41	42	49	51	51	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	796.1	796.1	796.1	796.1	796.1
2.5°	795.2	794.4	796.9	795.2	790.9
5°	790.9	793.5	793.5	793.5	793.5
7.5°	789.2	787.4	788.3	789.2	791.8
10°	787.4	782.3	783.1	782.3	778.8
12.5°	777.1	777.1	778.8	777.1	774.5
15°	767.6	766.7	765.9	765.0	771.0
17.5°	763.3	756.4	756.4	757.2	752.0
20°	746.0	746.0	746.9	744.3	740.8
22.5°	729.6	732.2	729.6	726.1	733.1
25°	718.4	716.6	714.1	713.2	709.7
27.5°	699.4	701.1	700.2	696.8	692.5
30°	684.7	683.0	679.5	675.2	682.1
32.5°	667.4	664.8	660.5	657.9	657.1
35°	647.6	645.0	642.4	638.9	634.6
37.5°	629.4	625.1	619.9	614.8	620.8
40°	606.1	604.4	596.6	593.2	594.9
42.5°	583.7	582.0	575.9	571.6	569.0
45°	562.1	556.9	550.0	544.8	550.0
47.5°	536.2	532.7	522.4	520.6	523.2
50°	509.4	505.1	496.5	493.9	493.0
52.5°	481.8	478.3	468.8	463.7	468.0
55°	450.7	449.0	436.9	434.3	439.5
57.5°	422.2	417.0	406.7	404.1	404.9
60°	390.3	386.0	374.7	371.3	376.5
62.5°	355.7	351.4	339.3	338.5	343.6
65°	323.8	316.9	305.7	306.5	306.5
67.5°	287.5	282.3	272.8	268.5	264.2
70°	249.5	246.1	238.3	224.5	220.2
72.5°	213.3	209.0	202.0	178.7	174.4
75°	176.1	171.8	160.6	144.2	133.0
77.5°	139.0	138.1	122.6	116.6	119.2
80°	104.5	103.6	92.4	101.9	105.3
82.5°	70.8	69.1	75.1	80.3	79.4
85°	41.4	42.3	49.2	50.9	50.9
87.5°	16.4	19.0	22.4	25.0	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)