

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: P392843

Luminaire Tested: **12EN-LD2-27-UNV-L83050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392843
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 (3000K)
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: 2704.4 lumens
Efficiency: N/A
Efficacy: 114.1 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

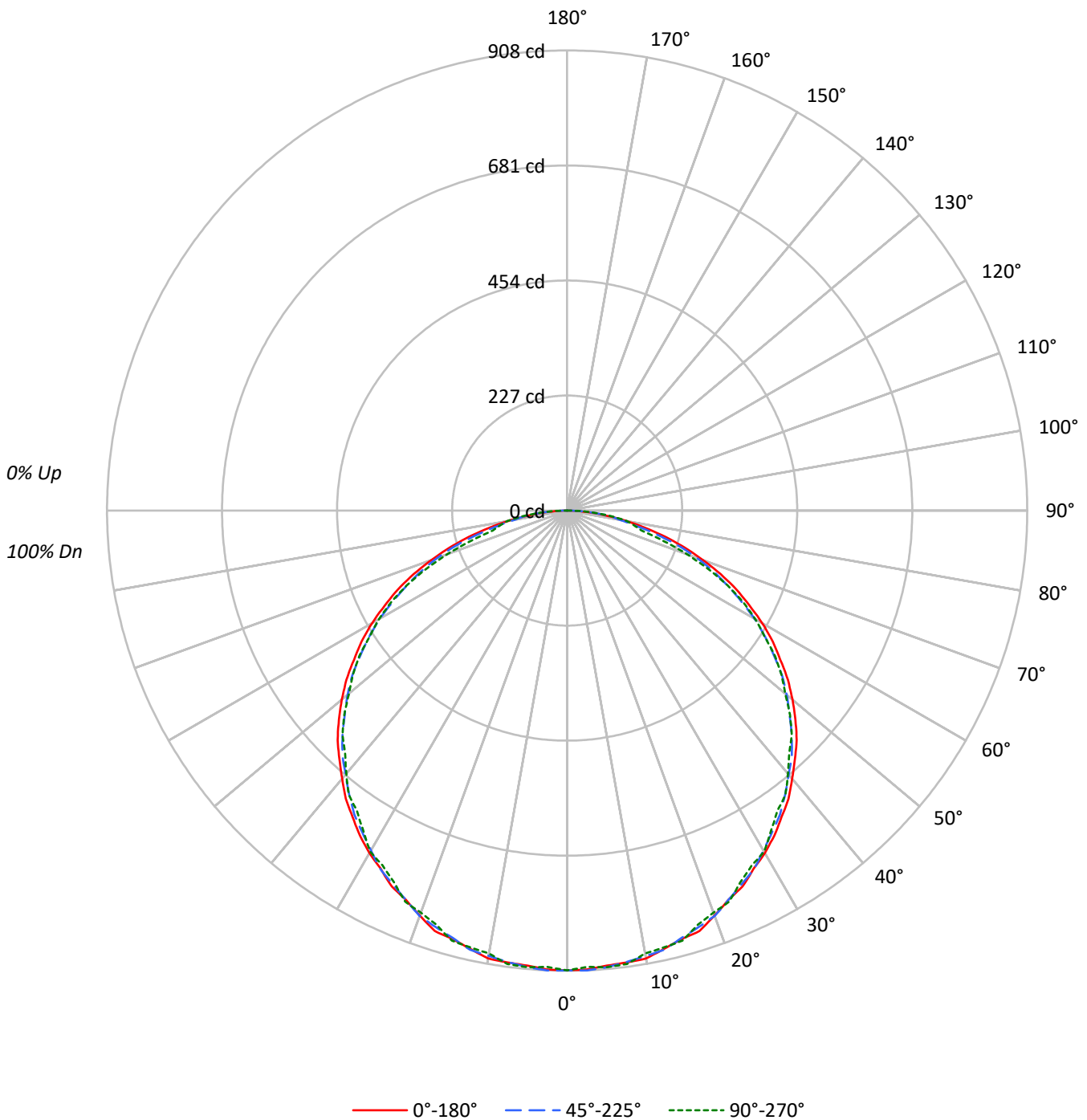
Input Watts (W): 23.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4883	4883	4883
5°	4869	4885	4885
10°	4904	4877	4850
15°	4874	4863	4896
20°	4869	4875	4835
25°	4861	4832	4803
30°	4849	4813	4831
35°	4849	4810	4752
40°	4853	4777	4763
45°	4875	4771	4771
50°	4860	4737	4704
55°	4819	4672	4699
60°	4787	4596	4618
65°	4699	4436	4448
70°	4475	4274	3948
75°	4173	3805	3150
80°	3691	3264	3719
85°	2915	3464	3588



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	3.2
10°-20°	246.9	9.1
20°-30°	375.6	13.9
30°-40°	457.7	16.9
40°-50°	485.0	17.9
50°-60°	449.2	16.6
60°-70°	349.1	12.9
70°-80°	194.9	7.2
80°-90°	60.2	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°	708.3	26.2
0°-40°	1166.1	43.1
0°-60°	2100.3	77.7
0°-90°	2704.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2704.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	907	907	907	907	907	
5°	901	904	904	904	904	86
15°	875	874	873	872	879	248
25°	819	817	814	813	809	377
35°	738	735	732	728	723	462
45°	640	635	627	621	627	493
55°	514	512	498	495	501	460
65°	369	361	348	349	349	363
75°	201	196	183	164	152	212
85°	47	48	56	58	58	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	907.2	907.2	907.2	907.2	907.2
2.5°	906.2	905.2	908.2	906.2	901.3
5°	901.3	904.2	904.2	904.2	904.2
7.5°	899.3	897.4	898.3	899.3	902.3
10°	897.4	891.5	892.4	891.5	887.5
12.5°	885.6	885.6	887.5	885.6	882.6
15°	874.7	873.7	872.8	871.8	878.7
17.5°	869.8	861.9	861.9	862.9	857.0
20°	850.1	850.1	851.1	848.2	844.2
22.5°	831.4	834.4	831.4	827.5	835.4
25°	818.6	816.7	813.7	812.7	808.8
27.5°	797.0	799.0	798.0	794.0	789.1
30°	780.3	778.3	774.4	769.4	777.3
32.5°	760.6	757.6	752.7	749.8	748.8
35°	738.0	735.0	732.1	728.1	723.2
37.5°	717.3	712.4	706.5	700.6	707.5
40°	690.7	688.8	679.9	676.0	677.9
42.5°	665.1	663.2	656.3	651.4	648.4
45°	640.5	634.6	626.8	620.9	626.8
47.5°	611.0	607.1	595.3	593.3	596.3
50°	580.5	575.6	565.8	562.8	561.8
52.5°	549.0	545.1	534.3	528.4	533.3
55°	513.6	511.7	497.9	494.9	500.8
57.5°	481.1	475.2	463.4	460.5	461.5
60°	444.7	439.8	427.0	423.1	429.0
62.5°	405.4	400.5	386.7	385.7	391.6
65°	369.0	361.1	348.3	349.3	349.3
67.5°	327.7	321.8	310.9	306.0	301.1
70°	284.4	280.4	271.6	255.8	250.9
72.5°	243.0	238.1	230.2	203.7	198.8
75°	200.7	195.8	183.0	164.3	151.5
77.5°	158.4	157.4	139.7	132.8	135.8
80°	119.1	118.1	105.3	116.1	120.0
82.5°	80.7	78.7	85.6	91.5	90.5
85°	47.2	48.2	56.1	58.1	58.1
87.5°	18.7	21.6	25.6	28.5	27.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)