

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: P392845

Luminaire Tested: **12EN-LD2-27-UNV-L83050-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392845
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 (4000K)
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: 2760.2 lumens
Efficiency: N/A
Efficacy: 117.5 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

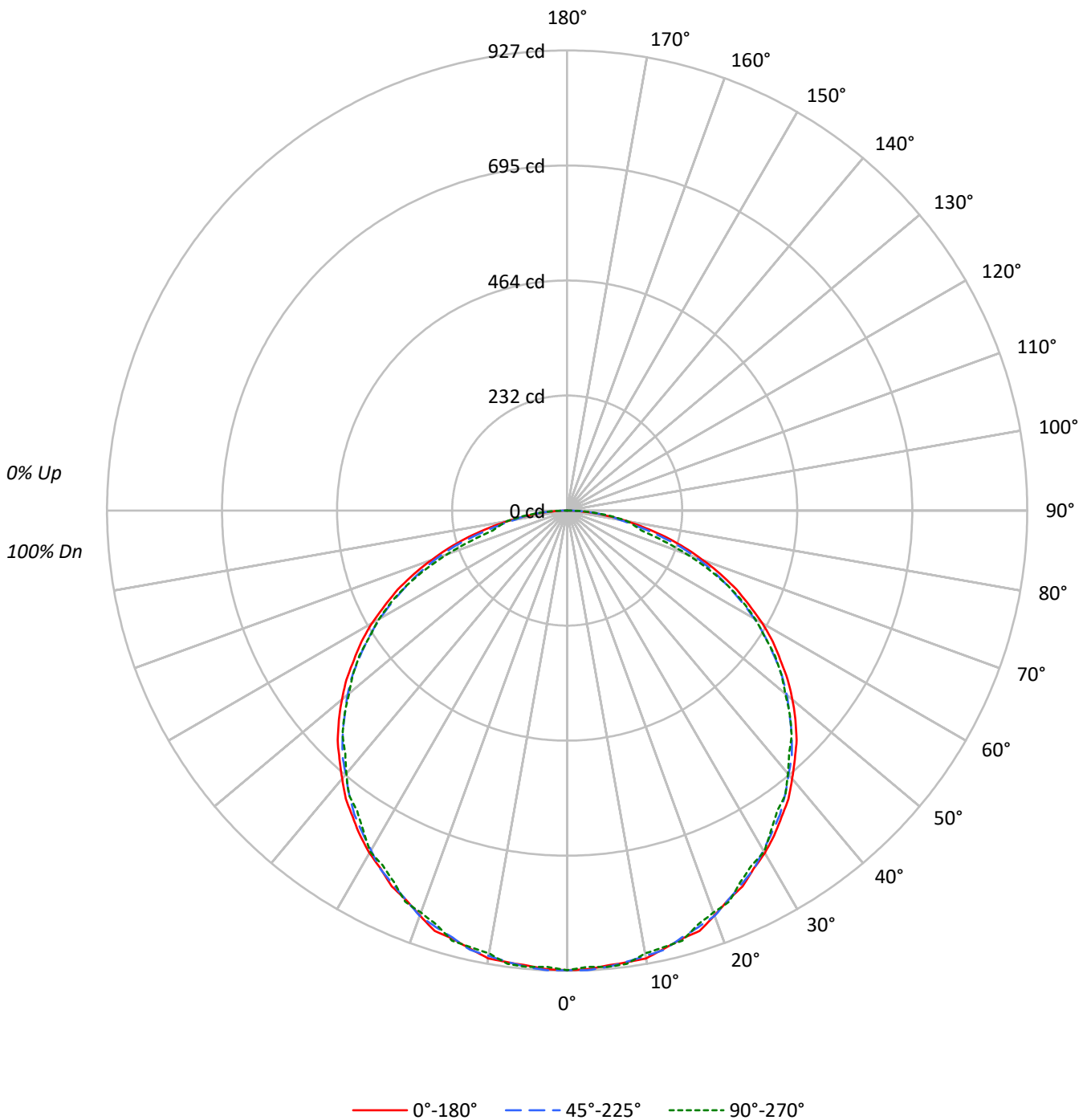
Input Watts (W): 23.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4983	4983	4983
5°	4970	4986	4986
10°	5005	4978	4950
15°	4975	4963	4997
20°	4970	4975	4935
25°	4961	4932	4902
30°	4949	4911	4931
35°	4949	4909	4849
40°	4953	4875	4861
45°	4976	4869	4869
50°	4961	4834	4801
55°	4919	4769	4797
60°	4886	4691	4714
65°	4796	4527	4540
70°	4567	4362	4030
75°	4261	3884	3217
80°	3766	3332	3797
85°	2976	3532	3662



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	3.2
10°-20°	252.0	9.1
20°-30°	383.3	13.9
30°-40°	467.2	16.9
40°-50°	495.0	17.9
50°-60°	458.5	16.6
60°-70°	356.3	12.9
70°-80°	198.9	7.2
80°-90°	61.4	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°	722.9	26.2
0°-40°	1190.1	43.1
0°-60°	2143.6	77.7
0°-90°	2760.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2760.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	926	926	926	926	926	
5°	920	923	923	923	923	88
15°	893	892	891	890	897	253
25°	836	834	830	830	826	384
35°	753	750	747	743	738	472
45°	654	648	640	634	640	503
55°	524	522	508	505	511	470
65°	377	369	356	356	356	370
75°	205	200	187	168	155	216
85°	48	49	57	59	59	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	925.9	925.9	925.9	925.9	925.9
2.5°	924.9	923.9	926.9	924.9	919.9
5°	919.9	922.9	922.9	922.9	922.9
7.5°	917.9	915.9	916.9	917.9	920.9
10°	915.9	909.9	910.9	909.9	905.8
12.5°	903.8	903.8	905.8	903.8	900.8
15°	892.8	891.8	890.8	889.8	896.8
17.5°	887.8	879.7	879.7	880.7	874.7
20°	867.7	867.7	868.7	865.7	861.6
22.5°	848.6	851.6	848.6	844.6	852.6
25°	835.5	833.5	830.5	829.5	825.5
27.5°	813.4	815.5	814.4	810.4	805.4
30°	796.4	794.4	790.3	785.3	793.4
32.5°	776.3	773.3	768.3	765.2	764.2
35°	753.2	750.2	747.2	743.1	738.1
37.5°	732.1	727.1	721.1	715.0	722.1
40°	705.0	703.0	693.9	689.9	691.9
42.5°	678.9	676.9	669.8	664.8	661.8
45°	653.8	647.7	639.7	633.7	639.7
47.5°	623.6	619.6	607.6	605.6	608.6
50°	592.5	587.5	577.4	574.4	573.4
52.5°	560.4	556.4	545.3	539.3	544.3
55°	524.2	522.2	508.2	505.1	511.2
57.5°	491.1	485.1	473.0	470.0	471.0
60°	453.9	448.9	435.8	431.8	437.9
62.5°	413.8	408.7	394.7	393.7	399.7
65°	376.6	368.6	355.5	356.5	356.5
67.5°	334.4	328.4	317.3	312.3	307.3
70°	290.2	286.2	277.2	261.1	256.1
72.5°	248.0	243.0	235.0	207.9	202.9
75°	204.9	199.8	186.8	167.7	154.7
77.5°	161.7	160.7	142.6	135.6	138.6
80°	121.5	120.5	107.5	118.5	122.5
82.5°	82.3	80.3	87.4	93.4	92.4
85°	48.2	49.2	57.2	59.3	59.3
87.5°	19.1	22.1	26.1	29.1	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)