

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: P392854

Luminaire Tested: **12EN-LD2-27-UNV-L92765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392854
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-L92765-W2A-1-U (4500K)
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: 2257.9 lumens
Efficiency: N/A
Efficacy: 96.9 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

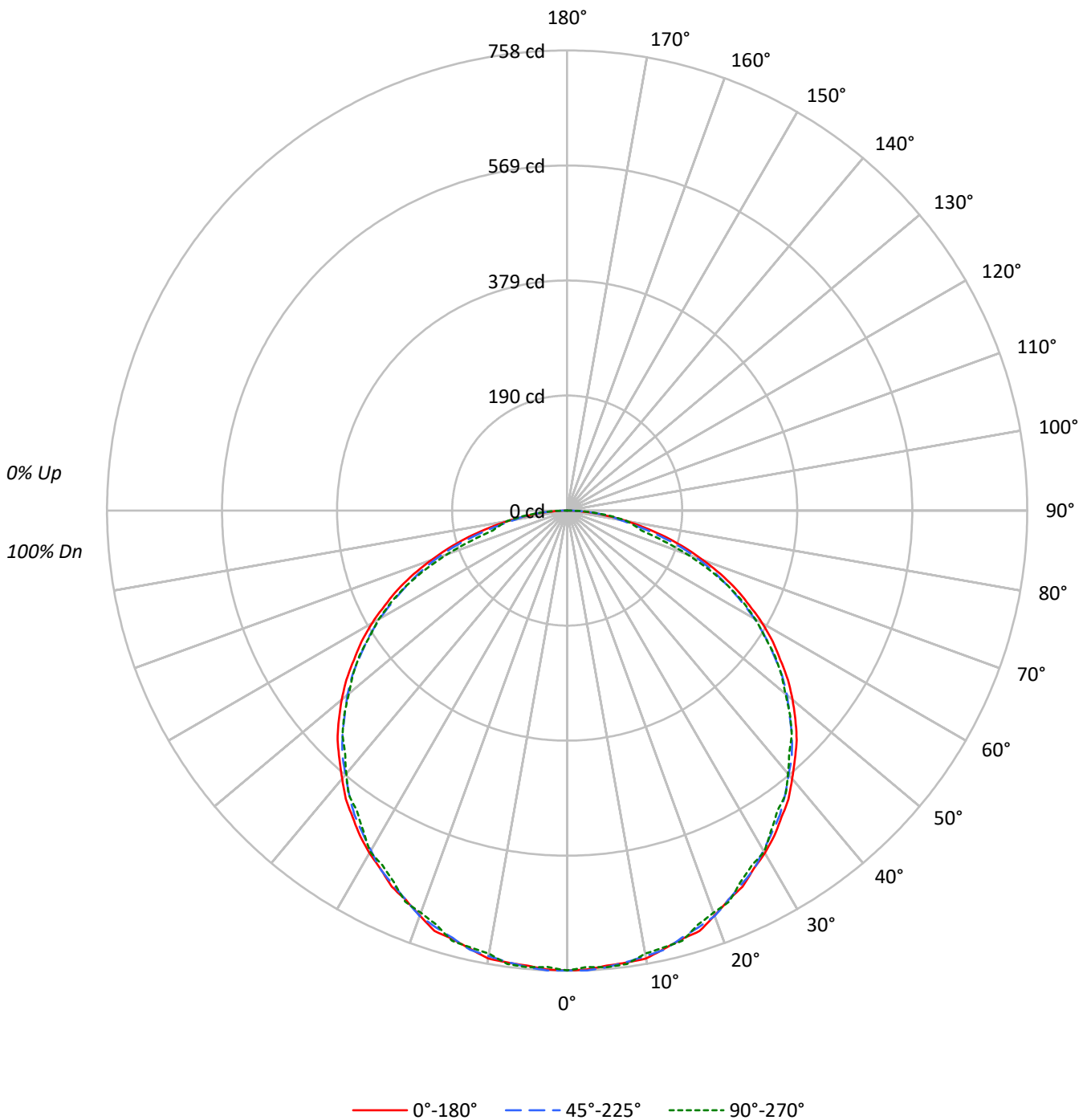
Input Watts (W): 23.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4076	4076	4076
5°	4065	4078	4078
10°	4094	4072	4050
15°	4069	4060	4087
20°	4065	4070	4037
25°	4059	4035	4010
30°	4048	4018	4033
35°	4048	4016	3967
40°	4052	3988	3977
45°	4070	3983	3983
50°	4058	3955	3928
55°	4023	3901	3923
60°	3997	3837	3856
65°	3924	3703	3713
70°	3736	3567	3297
75°	3485	3177	2630
80°	3081	2724	3106
85°	2433	2890	2995



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	3.2
10°-20°	206.1	9.1
20°-30°	313.6	13.9
30°-40°	382.2	16.9
40°-50°	404.9	17.9
50°-60°	375.0	16.6
60°-70°	291.4	12.9
70°-80°	162.7	7.2
80°-90°	50.3	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°	591.4	26.2
0°-40°	973.5	43.1
0°-60°	1753.5	77.7
0°-90°	2257.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2257.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	757	757	757	757	757	
5°	752	755	755	755	755	72
15°	730	730	729	728	734	207
25°	684	682	679	679	675	314
35°	616	614	611	608	604	386
45°	535	530	523	518	523	412
55°	429	427	416	413	418	384
65°	308	302	291	292	292	303
75°	168	164	153	137	126	177
85°	39	40	47	48	48	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	757.4	757.4	757.4	757.4	757.4
2.5°	756.6	755.8	758.2	756.6	752.5
5°	752.5	754.9	754.9	754.9	754.9
7.5°	750.8	749.2	750.0	750.8	753.3
10°	749.2	744.3	745.1	744.3	741.0
12.5°	739.3	739.3	741.0	739.3	736.9
15°	730.3	729.5	728.7	727.8	733.6
17.5°	726.2	719.6	719.6	720.4	715.5
20°	709.8	709.8	710.6	708.1	704.8
22.5°	694.2	696.6	694.2	690.9	697.4
25°	683.5	681.8	679.4	678.6	675.3
27.5°	665.4	667.0	666.2	662.9	658.8
30°	651.4	649.8	646.5	642.4	649.0
32.5°	635.0	632.5	628.4	626.0	625.2
35°	616.1	613.7	611.2	607.9	603.8
37.5°	598.9	594.8	589.8	584.9	590.7
40°	576.7	575.0	567.6	564.4	566.0
42.5°	555.3	553.7	547.9	543.8	541.4
45°	534.8	529.9	523.3	518.4	523.3
47.5°	510.1	506.9	497.0	495.4	497.8
50°	484.7	480.6	472.4	469.9	469.1
52.5°	458.4	455.1	446.1	441.1	445.2
55°	428.8	427.2	415.7	413.2	418.1
57.5°	401.7	396.8	386.9	384.5	385.3
60°	371.3	367.2	356.5	353.2	358.2
62.5°	338.5	334.3	322.8	322.0	327.0
65°	308.1	301.5	290.8	291.6	291.6
67.5°	273.6	268.6	259.6	255.5	251.4
70°	237.4	234.1	226.7	213.6	209.5
72.5°	202.9	198.8	192.2	170.0	165.9
75°	167.6	163.5	152.8	137.2	126.5
77.5°	132.3	131.4	116.7	110.9	113.4
80°	99.4	98.6	87.9	96.9	100.2
82.5°	67.4	65.7	71.5	76.4	75.6
85°	39.4	40.3	46.8	48.5	48.5
87.5°	15.6	18.1	21.4	23.8	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)