

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: P392837

Luminaire Tested: **12EN-LD2-27-UNV-L82765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392837
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-L82765-W2A-1-U (4000K)
Description: 1X2 ENCOUNTER, 2700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2567.6 lumens
Efficiency: N/A
Efficacy: 109.7 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

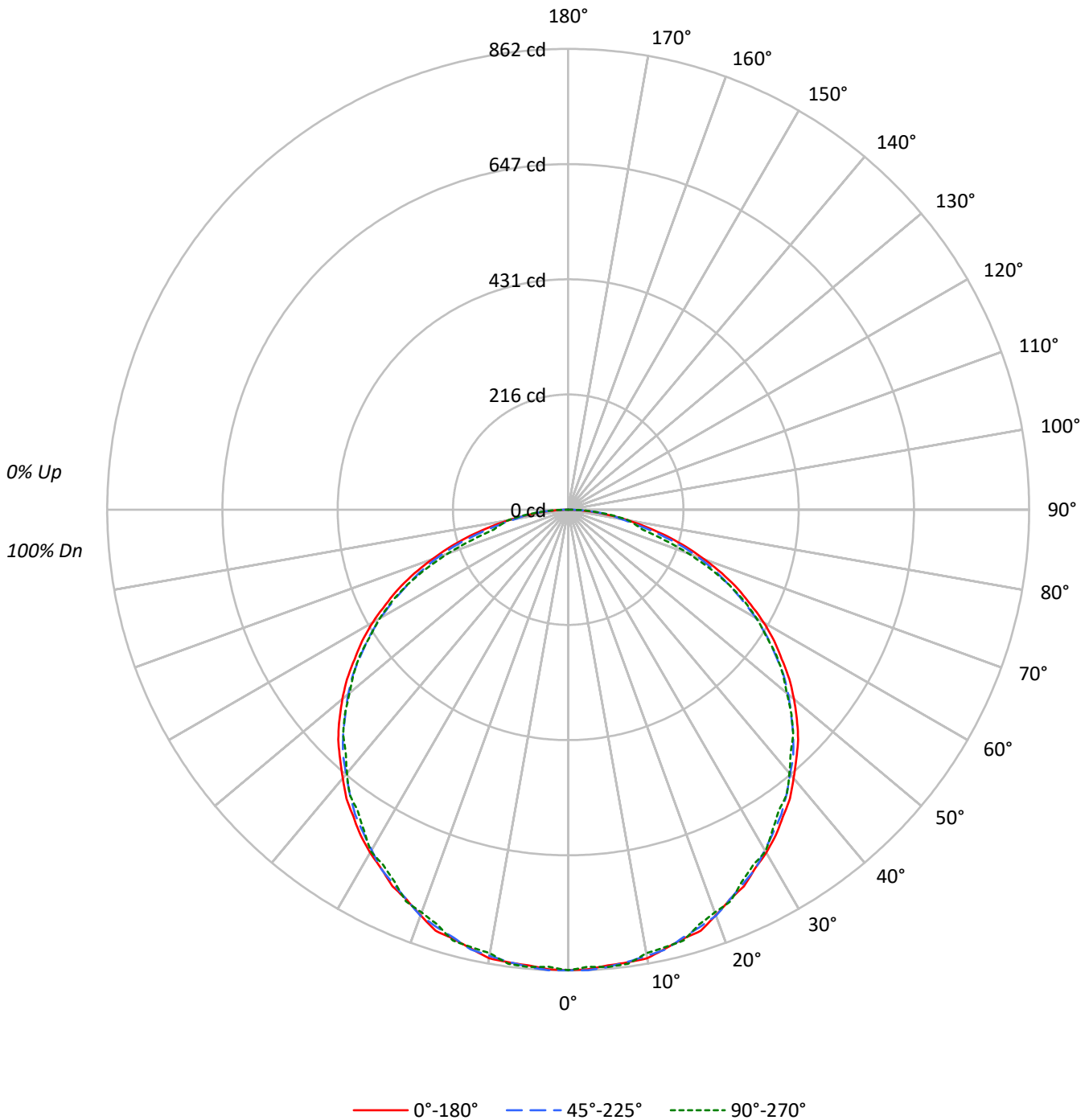
Input Watts (W): 23.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P392837

CATALOG NUMBER: 12EN-LD2-27-UNV-L82765-W2A-1-U (4000K)

Luminous Intensity Polar Plot





TEST NUMBER: P392837

CATALOG NUMBER: 12EN-LD2-27-UNV-L82765-W2A-1-U (4000K)

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°	4635	4635	4635
5°	4623	4638	4638
10°	4656	4630	4605
15°	4627	4617	4648
20°	4623	4628	4590
25°	4615	4587	4560
30°	4604	4569	4586
35°	4603	4566	4511
40°	4607	4535	4522
45°	4628	4529	4529
50°	4614	4497	4466
55°	4575	4435	4462
60°	4545	4364	4384
65°	4461	4211	4223
70°	4249	4057	3748
75°	3963	3614	2992
80°	3502	3099	3533
85°	2766	3285	3402



TEST NUMBER: P392837

CATALOG NUMBER: 12EN-LD2-27-UNV-L82765-W2A-1-U (4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	3.2
10°-20°	234.4	9.1
20°-30°	356.6	13.9
30°-40°	434.6	16.9
40°-50°	460.5	17.9
50°-60°	426.5	16.6
60°-70°	331.4	12.9
70°-80°	185.0	7.2
80°-90°	57.1	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°	672.5	26.2
0°-40°	1107.0	43.1
0°-60°	1994.0	77.7
0°-90°	2567.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2567.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	861	861	861	861	861	
5°	856	858	858	858	858	82
15°	830	830	829	828	834	235
25°	777	775	772	772	768	358
35°	701	698	695	691	687	439
45°	608	602	595	589	595	468
55°	488	486	473	470	476	437
65°	350	343	331	332	332	345
75°	191	186	174	156	144	201
85°	45	46	53	55	55	53
90°	0	0	0	0	0	



TEST NUMBER: P392837

CATALOG NUMBER: 12EN-LD2-27-UNV-L82765-W2A-1-U (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	861.3	861.3	861.3	861.3	861.3
2.5°	860.3	859.4	862.2	860.3	855.7
5°	855.7	858.5	858.5	858.5	858.5
7.5°	853.8	851.9	852.9	853.8	856.6
10°	851.9	846.3	847.3	846.3	842.6
12.5°	840.7	840.7	842.6	840.7	837.9
15°	830.5	829.5	828.6	827.7	834.2
17.5°	825.8	818.3	818.3	819.2	813.6
20°	807.1	807.1	808.0	805.2	801.5
22.5°	789.4	792.2	789.4	785.6	793.1
25°	777.2	775.3	772.5	771.6	767.9
27.5°	756.7	758.5	757.6	753.9	749.2
30°	740.8	738.9	735.2	730.5	738.0
32.5°	722.1	719.3	714.6	711.8	710.9
35°	700.6	697.8	695.0	691.3	686.6
37.5°	681.0	676.3	670.7	665.1	671.6
40°	655.8	653.9	645.5	641.8	643.6
42.5°	631.5	629.6	623.1	618.4	615.6
45°	608.1	602.5	595.0	589.4	595.0
47.5°	580.1	576.4	565.2	563.3	566.1
50°	551.1	546.5	537.1	534.3	533.4
52.5°	521.3	517.5	507.2	501.6	506.3
55°	487.6	485.8	472.7	469.9	475.5
57.5°	456.8	451.2	440.0	437.2	438.1
60°	422.2	417.6	405.4	401.7	407.3
62.5°	384.9	380.2	367.1	366.2	371.8
65°	350.3	342.8	330.7	331.6	331.6
67.5°	311.1	305.5	295.2	290.5	285.8
70°	270.0	266.2	257.8	242.9	238.2
72.5°	230.7	226.1	218.6	193.4	188.7
75°	190.6	185.9	173.8	156.0	143.9
77.5°	150.4	149.5	132.6	126.1	128.9
80°	113.0	112.1	100.0	110.2	114.0
82.5°	76.6	74.7	81.3	86.9	85.9
85°	44.8	45.8	53.2	55.1	55.1
87.5°	17.7	20.6	24.3	27.1	26.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)