

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: P392850

Luminaire Tested: **12EN-LD2-27-UNV-L92765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392850
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 (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: 2062.8 lumens
Efficiency: N/A
Efficacy: 89.3 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

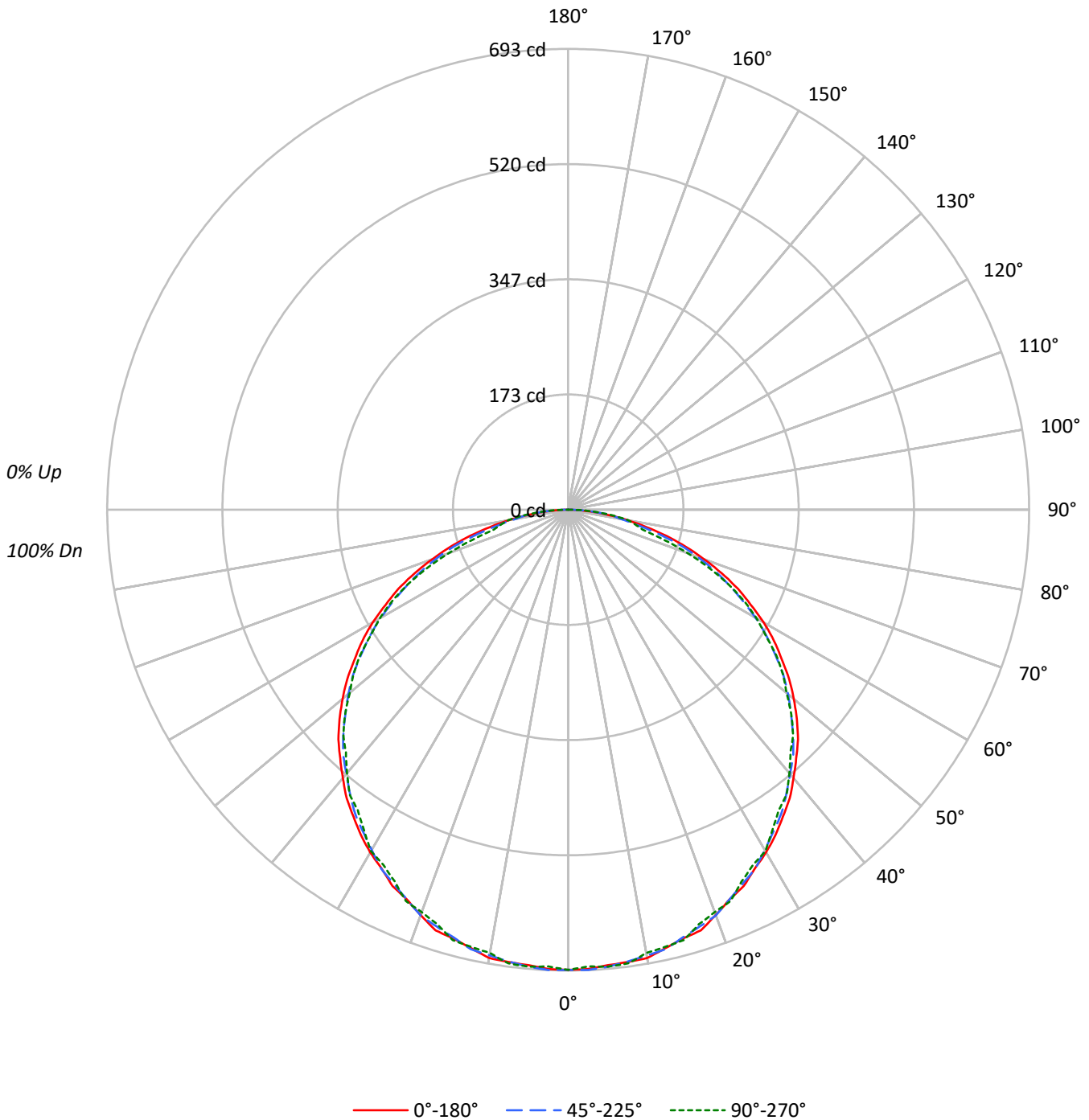
Input Watts (W): 23.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P392850

CATALOG NUMBER: 12EN-LD2-27-UNV-L92765-W2A-1-U (2700K)

Luminous Intensity Polar Plot





TEST NUMBER: P392850

CATALOG NUMBER: 12EN-LD2-27-UNV-L92765-W2A-1-U (2700K)

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°	3724	3724	3724
5°	3714	3726	3726
10°	3741	3720	3700
15°	3718	3709	3734
20°	3714	3718	3688
25°	3708	3686	3663
30°	3698	3670	3685
35°	3698	3669	3624
40°	3702	3644	3633
45°	3719	3639	3639
50°	3707	3613	3588
55°	3676	3564	3584
60°	3651	3506	3522
65°	3584	3384	3393
70°	3413	3259	3012
75°	3184	2903	2404
80°	2814	2489	2839
85°	2223	2643	2736



TEST NUMBER: P392850

CATALOG NUMBER: 12EN-LD2-27-UNV-L92765-W2A-1-U (2700K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.5	3.2
10°-20°	188.3	9.1
20°-30°	286.5	13.9
30°-40°	349.1	16.9
40°-50°	370.0	17.9
50°-60°	342.6	16.6
60°-70°	266.3	12.9
70°-80°	148.6	7.2
80°-90°	45.9	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°	540.3	26.2
0°-40°	889.4	43.1
0°-60°	1602.0	77.7
0°-90°	2062.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2062.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	692	692	692	692	692	
5°	688	690	690	690	690	66
15°	667	666	666	665	670	189
25°	624	623	621	620	617	287
35°	563	561	558	555	552	353
45°	489	484	478	474	478	376
55°	392	390	380	378	382	351
65°	281	275	266	266	266	277
75°	153	149	140	125	116	162
85°	36	37	43	44	44	43
90°	0	0	0	0	0	



TEST NUMBER: P392850

CATALOG NUMBER: 12EN-LD2-27-UNV-L92765-W2A-1-U (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	692.0	692.0	692.0	692.0	692.0
2.5°	691.2	690.5	692.7	691.2	687.5
5°	687.5	689.7	689.7	689.7	689.7
7.5°	686.0	684.5	685.2	686.0	688.2
10°	684.5	680.0	680.7	680.0	677.0
12.5°	675.5	675.5	677.0	675.5	673.2
15°	667.2	666.4	665.7	664.9	670.2
17.5°	663.4	657.4	657.4	658.2	653.7
20°	648.4	648.4	649.2	646.9	643.9
22.5°	634.2	636.4	634.2	631.2	637.2
25°	624.4	622.9	620.7	619.9	616.9
27.5°	607.9	609.4	608.7	605.7	601.9
30°	595.1	593.6	590.6	586.9	592.9
32.5°	580.1	577.9	574.1	571.9	571.1
35°	562.9	560.6	558.4	555.4	551.6
37.5°	547.1	543.4	538.9	534.4	539.6
40°	526.9	525.4	518.6	515.6	517.1
42.5°	507.3	505.8	500.6	496.8	494.6
45°	488.6	484.1	478.1	473.6	478.1
47.5°	466.1	463.1	454.1	452.6	454.8
50°	442.8	439.0	431.5	429.3	428.5
52.5°	418.8	415.8	407.5	403.0	406.8
55°	391.8	390.3	379.8	377.5	382.0
57.5°	367.0	362.5	353.5	351.2	352.0
60°	339.2	335.5	325.7	322.7	327.2
62.5°	309.2	305.5	294.9	294.2	298.7
65°	281.4	275.4	265.7	266.4	266.4
67.5°	249.9	245.4	237.2	233.4	229.7
70°	216.9	213.9	207.1	195.1	191.4
72.5°	185.4	181.6	175.6	155.4	151.6
75°	153.1	149.4	139.6	125.3	115.6
77.5°	120.8	120.1	106.6	101.3	103.6
80°	90.8	90.1	80.3	88.6	91.6
82.5°	61.5	60.0	65.3	69.8	69.0
85°	36.0	36.8	42.8	44.3	44.3
87.5°	14.3	16.5	19.5	21.8	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)