

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: P392882

Luminaire Tested: **12EN-LD2-31-UNV-L92765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-38)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12EN-LD2-31-UNV-L92765-W2A-1-U (2700K)
Description: 1X2 ENCOUNTER, 3100 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2346.1 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

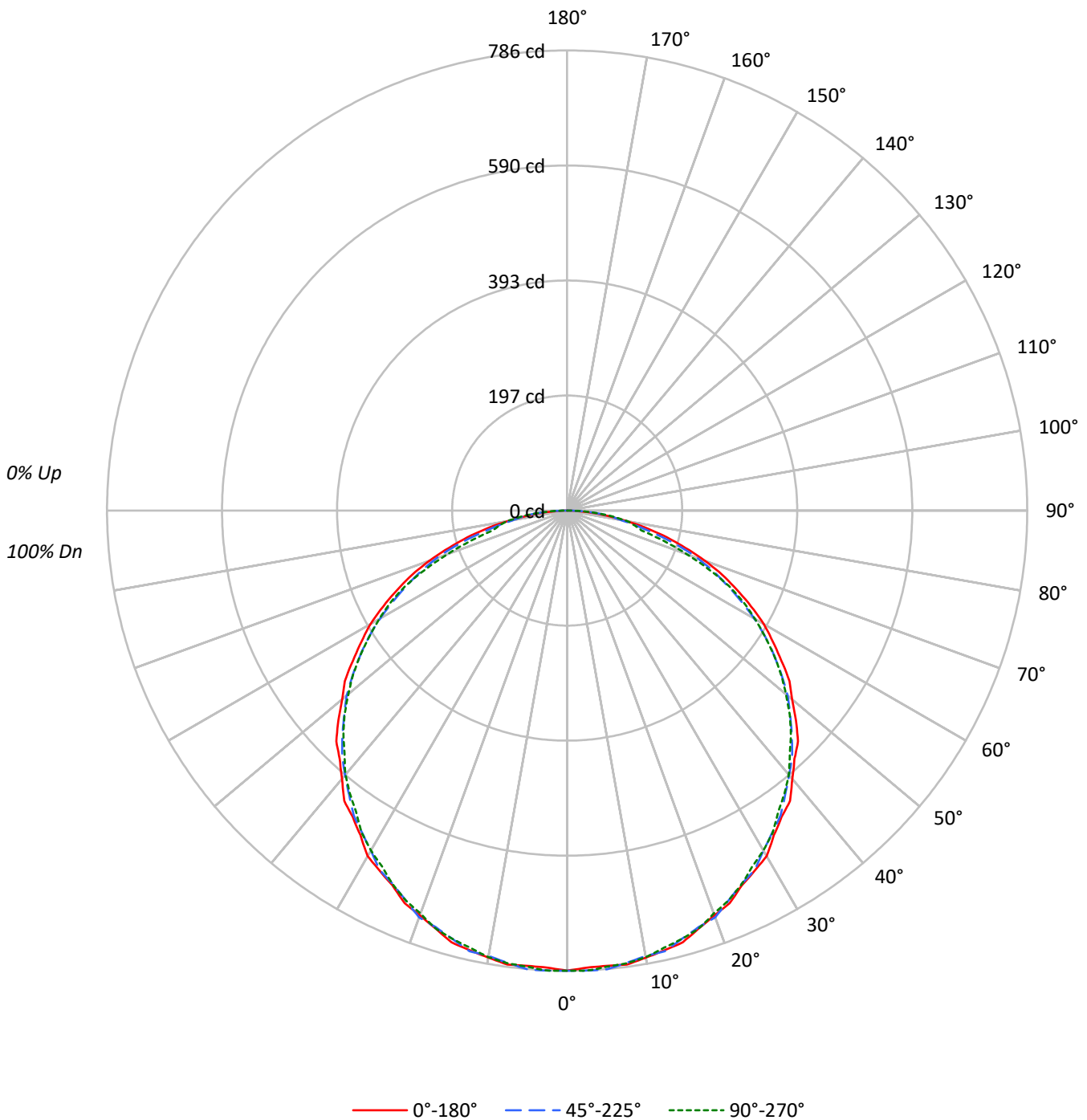
Input Watts (W): 26.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P392882

CATALOG NUMBER: 12EN-LD2-31-UNV-L92765-W2A-1-U (2700K)

Luminous Intensity Polar Plot





TEST NUMBER: P392882

CATALOG NUMBER: 12EN-LD2-31-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°	4229	4229	4229
5°	4217	4249	4225
10°	4237	4221	4233
15°	4253	4220	4220
20°	4212	4234	4195
25°	4194	4181	4185
30°	4235	4165	4165
35°	4196	4177	4127
40°	4203	4144	4139
45°	4244	4130	4113
50°	4197	4116	4084
55°	4191	4049	4049
60°	4176	3974	3990
65°	4071	3833	3880
70°	3932	3720	3413
75°	3668	3308	2730
80°	3186	2861	3233
85°	2501	3106	3149



TEST NUMBER: P392882

CATALOG NUMBER: 12EN-LD2-31-UNV-L92765-W2A-1-U (2700K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.5	3.2
10°-20°	214.1	9.1
20°-30°	325.8	13.9
30°-40°	397.1	16.9
40°-50°	420.4	17.9
50°-60°	389.3	16.6
60°-70°	302.9	12.9
70°-80°	169.5	7.2
80°-90°	52.6	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°	614.4	26.2
0°-40°	1011.4	43.1
0°-60°	1821.1	77.6
0°-90°	2346.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2346.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	786	786	786	786	786	
5°	780	786	786	787	782	74
15°	763	759	757	756	757	215
25°	706	705	704	703	705	327
35°	639	639	636	632	628	401
45°	558	553	543	540	540	427
55°	447	443	432	429	432	400
65°	320	312	301	302	305	317
75°	176	170	159	143	131	185
85°	40	42	50	50	51	48
90°	0	0	0	0	0	



TEST NUMBER: P392882

CATALOG NUMBER: 12EN-LD2-31-UNV-L92765-W2A-1-U (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	785.8	785.8	785.8	785.8	785.8
2.5°	781.3	784.3	786.5	786.5	786.5
5°	780.5	785.8	786.5	787.3	782.0
7.5°	782.0	778.3	779.0	777.5	779.8
10°	775.3	771.5	772.3	773.8	774.5
12.5°	769.3	770.0	770.8	770.0	764.8
15°	763.3	758.8	757.3	755.8	757.3
17.5°	748.3	745.3	746.0	746.8	748.3
20°	735.5	739.2	739.2	737.7	732.5
22.5°	725.7	725.0	720.5	718.2	720.5
25°	706.2	704.7	704.0	703.2	704.7
27.5°	693.5	693.5	692.7	689.7	685.2
30°	681.5	677.7	670.2	668.7	670.2
32.5°	657.4	654.4	652.2	649.2	652.9
35°	638.7	638.7	635.7	631.9	628.2
37.5°	625.2	620.7	611.7	608.7	609.4
40°	598.2	595.2	589.9	586.1	589.1
42.5°	574.9	574.1	568.9	564.4	562.9
45°	557.6	553.1	542.6	539.6	540.4
47.5°	529.9	525.4	516.3	513.3	515.6
50°	501.3	498.3	491.6	487.1	487.8
52.5°	478.8	472.8	461.6	460.1	460.8
55°	446.6	442.8	431.5	429.3	431.5
57.5°	416.5	412.0	401.5	397.0	400.8
60°	388.0	381.3	369.2	367.7	370.7
62.5°	354.2	349.0	334.7	335.5	340.0
65°	319.7	312.2	301.0	301.7	304.7
67.5°	286.7	278.4	269.4	264.9	261.2
70°	249.9	243.9	236.4	222.1	216.9
72.5°	211.6	206.4	199.6	177.9	174.1
75°	176.4	170.4	159.1	142.6	131.3
77.5°	138.8	135.8	122.3	114.8	118.6
80°	102.8	102.8	92.3	100.6	104.3
82.5°	69.0	68.3	75.8	79.6	78.8
85°	40.5	42.0	50.3	50.3	51.0
87.5°	17.3	19.5	23.3	24.0	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)