

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: P392866

Luminaire Tested: **12EN-LD2-31-UNV-L82765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392866
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-L82765-W2A-1-U (2700K)
Description: 1X2 ENCOUNTER, 3100 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2839.8 lumens
Efficiency: N/A
Efficacy: 105.6 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

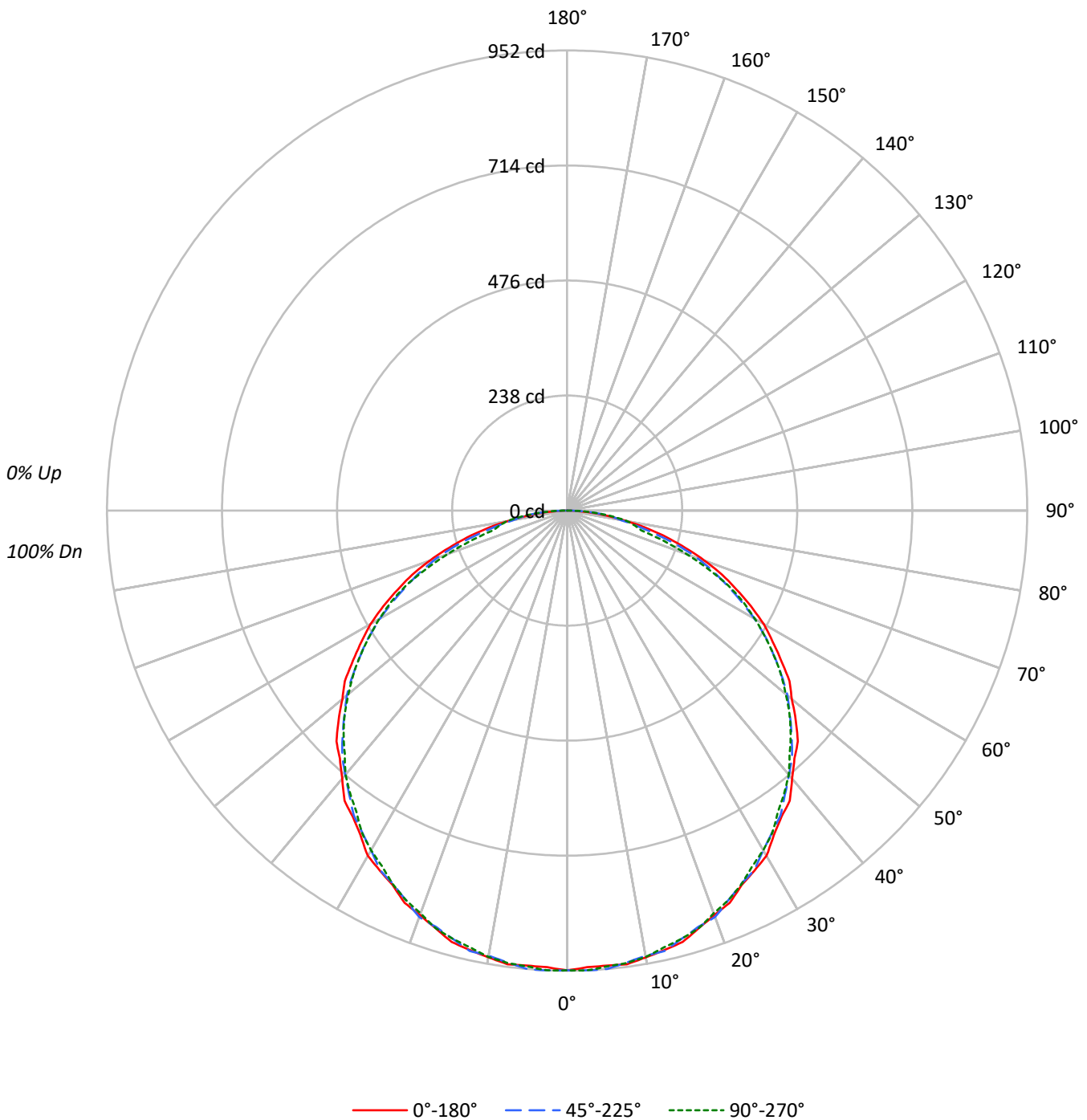
Input Watts (W): 26.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5119	5119	5119
5°	5104	5143	5114
10°	5128	5109	5123
15°	5148	5107	5107
20°	5099	5125	5078
25°	5076	5060	5065
30°	5126	5041	5041
35°	5079	5055	4996
40°	5087	5016	5010
45°	5138	4999	4979
50°	5081	4982	4944
55°	5072	4901	4901
60°	5056	4810	4831
65°	4928	4639	4697
70°	4760	4504	4131
75°	4440	4005	3306
80°	3859	3462	3914
85°	3032	3761	3816



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.2	3.2
10°-20°	259.2	9.1
20°-30°	394.3	13.9
30°-40°	480.6	16.9
40°-50°	508.8	17.9
50°-60°	471.2	16.6
60°-70°	366.6	12.9
70°-80°	205.2	7.2
80°-90°	63.7	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°	743.6	26.2
0°-40°	1224.2	43.1
0°-60°	2204.3	77.6
0°-90°	2839.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2839.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	951	951	951	951	951	
5°	945	951	952	953	947	90
15°	924	918	917	915	917	260
25°	855	853	852	851	853	396
35°	773	773	769	765	760	486
45°	675	670	657	653	654	517
55°	540	536	522	520	522	484
65°	387	378	364	365	369	383
75°	214	206	193	173	159	224
85°	49	51	61	61	62	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	951.1	951.1	951.1	951.1	951.1
2.5°	945.7	949.3	952.0	952.0	952.0
5°	944.8	951.1	952.0	952.9	946.6
7.5°	946.6	942.0	943.0	941.1	943.9
10°	938.4	933.9	934.8	936.6	937.5
12.5°	931.1	932.0	933.0	932.0	925.7
15°	923.9	918.4	916.6	914.8	916.6
17.5°	905.7	902.1	903.0	903.9	905.7
20°	890.3	894.8	894.8	893.0	886.6
22.5°	878.5	877.5	872.1	869.4	872.1
25°	854.8	853.0	852.1	851.2	853.0
27.5°	839.4	839.4	838.5	834.8	829.4
30°	824.9	820.3	811.2	809.4	811.2
32.5°	795.8	792.2	789.4	785.8	790.3
35°	773.1	773.1	769.4	764.9	760.4
37.5°	756.7	751.3	740.4	736.7	737.6
40°	724.0	720.4	714.0	709.5	713.1
42.5°	695.9	694.9	688.6	683.1	681.3
45°	675.0	669.5	656.8	653.2	654.1
47.5°	641.4	635.9	625.0	621.4	624.1
50°	606.8	603.2	595.0	589.6	590.5
52.5°	579.6	572.3	558.7	556.9	557.8
55°	540.5	536.0	522.3	519.6	522.3
57.5°	504.2	498.7	486.0	480.6	485.1
60°	469.7	461.5	446.9	445.1	448.8
62.5°	428.8	422.4	405.2	406.1	411.5
65°	387.0	377.9	364.3	365.2	368.8
67.5°	347.0	337.0	326.1	320.7	316.1
70°	302.5	295.2	286.2	268.9	262.5
72.5°	256.2	249.8	241.6	215.3	210.8
75°	213.5	206.2	192.6	172.6	159.0
77.5°	168.1	164.4	148.1	139.0	143.5
80°	124.5	124.5	111.7	121.7	126.3
82.5°	83.6	82.7	91.8	96.3	95.4
85°	49.1	50.9	60.9	60.9	61.8
87.5°	20.9	23.6	28.2	29.1	29.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)