

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: P392822

Luminaire Tested: **12EN-LD2-23-UNV-L92765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392822
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-36)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12EN-LD2-23-UNV-L92765-W2A-1-U (4500K)
Description: 1X2 ENCOUNTER, 2300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1885.7 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.39
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

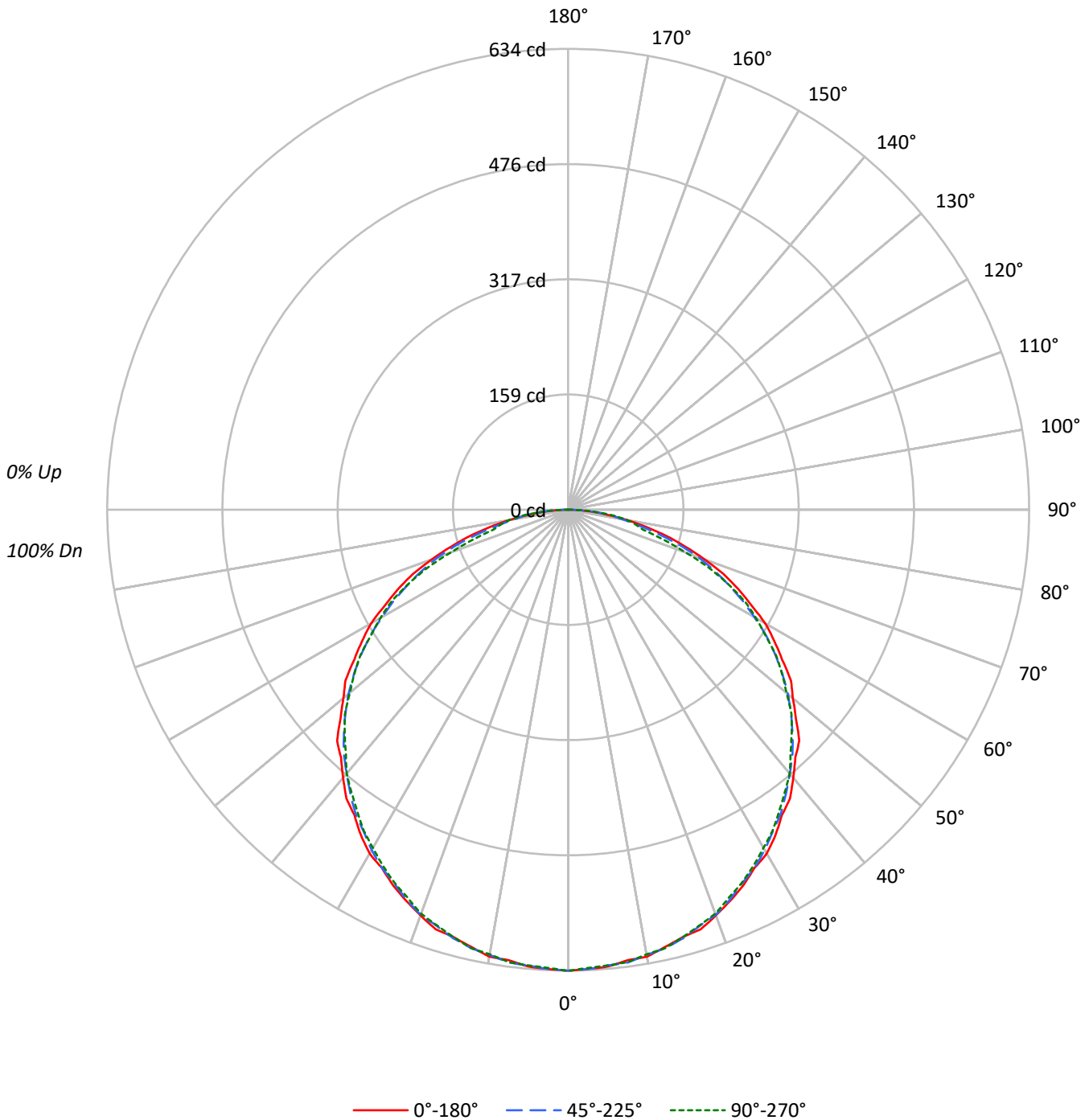
Input Watts (W): 19.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3413	3413	3413
5°	3408	3400	3400
10°	3412	3399	3394
15°	3392	3401	3392
20°	3401	3397	3388
25°	3385	3366	3361
30°	3395	3359	3339
35°	3368	3351	3324
40°	3382	3330	3330
45°	3420	3320	3308
50°	3378	3301	3281
55°	3369	3261	3276
60°	3369	3183	3210
65°	3284	3086	3097
70°	3141	2987	2702
75°	2922	2647	2221
80°	2545	2290	2572
85°	2032	2433	2489



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.9	3.2
10°-20°	172.2	9.1
20°-30°	261.9	13.9
30°-40°	319.1	16.9
40°-50°	338.1	17.9
50°-60°	313.1	16.6
60°-70°	243.6	12.9
70°-80°	135.7	7.2
80°-90°	42.0	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°	494.0	26.2
0°-40°	813.2	43.1
0°-60°	1464.4	77.7
0°-90°	1885.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1885.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	634	634	634	634	634	
5°	631	628	629	631	629	60
15°	609	611	610	610	609	172
25°	570	570	567	565	566	263
35°	513	513	510	508	506	322
45°	449	442	436	433	435	344
55°	359	356	348	345	349	322
65°	258	252	242	245	243	255
75°	140	136	127	114	107	148
85°	33	34	39	40	40	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	634.2	634.2	634.2	634.2	634.2
2.5°	632.5	632.5	632.5	632.5	630.9
5°	630.9	628.4	629.3	630.9	629.3
7.5°	625.2	627.6	628.4	628.4	627.6
10°	624.3	621.9	621.9	621.9	621.0
12.5°	616.1	616.9	617.8	617.8	617.8
15°	608.7	611.2	610.4	610.4	608.7
17.5°	605.4	601.3	600.5	600.5	599.7
20°	593.9	592.3	593.1	591.5	591.5
22.5°	582.4	581.6	580.8	580.0	577.5
25°	570.1	570.1	566.8	565.2	566.0
27.5°	555.3	557.0	555.3	553.7	552.0
30°	546.3	542.2	540.5	538.9	537.3
32.5°	530.7	529.0	524.1	521.6	523.3
35°	512.6	512.6	510.1	507.7	506.0
37.5°	501.1	496.2	492.1	489.6	489.6
40°	481.4	481.4	474.0	470.7	474.0
42.5°	462.5	462.5	456.7	455.1	452.6
45°	449.4	442.0	436.2	432.9	434.6
47.5°	424.7	423.1	415.7	413.2	416.5
50°	403.4	402.5	394.3	392.7	391.9
52.5°	386.1	378.7	371.3	368.8	370.5
55°	359.0	355.7	347.5	345.0	349.1
57.5°	336.0	332.7	322.8	321.2	321.2
60°	313.0	305.6	295.7	294.1	298.2
62.5°	283.4	280.1	269.4	270.3	274.4
65°	257.9	252.2	242.3	244.8	243.2
67.5°	230.8	224.3	216.1	212.8	210.3
70°	199.6	195.5	189.8	178.3	171.7
72.5°	168.4	165.1	159.4	142.9	138.0
75°	140.5	136.4	127.3	114.2	106.8
77.5°	110.1	110.1	97.8	92.0	95.3
80°	82.1	83.0	73.9	80.5	83.0
82.5°	55.9	55.0	60.8	63.3	63.3
85°	32.9	33.7	39.4	40.3	40.3
87.5°	13.1	15.6	18.1	18.9	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)