

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: P392820

Luminaire Tested: **12EN-LD2-23-UNV-L92765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392820
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 (3500K)
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: 1817.9 lumens
Efficiency: N/A
Efficacy: 94.7 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

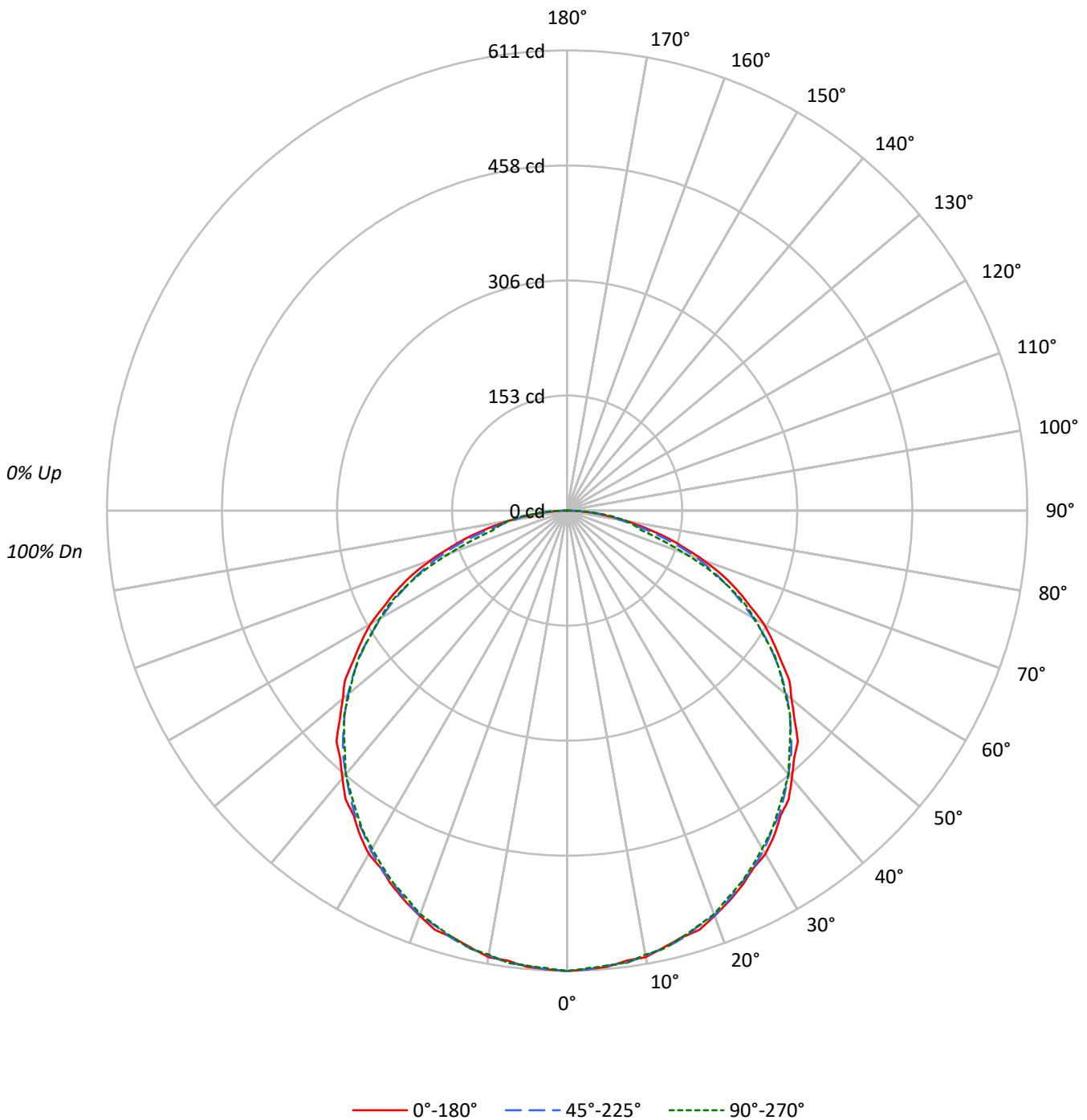
Input Watts (W): 19.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3291	3291	3291
5°	3286	3277	3277
10°	3289	3276	3272
15°	3270	3278	3270
20°	3279	3275	3266
25°	3264	3245	3241
30°	3273	3238	3219
35°	3247	3231	3205
40°	3261	3211	3211
45°	3297	3201	3188
50°	3255	3183	3163
55°	3248	3143	3158
60°	3247	3069	3095
65°	3167	2975	2985
70°	3028	2878	2604
75°	2816	2554	2142
80°	2455	2210	2479
85°	1958	2347	2396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.8	3.2
10°-20°	166.0	9.1
20°-30°	252.5	13.9
30°-40°	307.7	16.9
40°-50°	326.0	17.9
50°-60°	301.9	16.6
60°-70°	234.8	12.9
70°-80°	130.9	7.2
80°-90°	40.5	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°	476.3	26.2
0°-40°	783.9	43.1
0°-60°	1411.8	77.7
0°-90°	1817.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1817.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	611	611	611	611	611	
5°	608	606	607	608	607	58
15°	587	589	588	588	587	166
25°	550	550	546	545	546	253
35°	494	494	492	489	488	311
45°	433	426	420	417	419	331
55°	346	343	335	333	337	310
65°	249	243	234	236	234	245
75°	135	132	123	110	103	142
85°	32	32	38	39	39	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	611.4	611.4	611.4	611.4	611.4
2.5°	609.8	609.8	609.8	609.8	608.2
5°	608.2	605.8	606.6	608.2	606.6
7.5°	602.7	605.1	605.8	605.8	605.1
10°	601.9	599.5	599.5	599.5	598.7
12.5°	594.0	594.8	595.5	595.5	595.5
15°	586.8	589.2	588.4	588.4	586.8
17.5°	583.7	579.7	578.9	578.9	578.1
20°	572.6	571.0	571.8	570.2	570.2
22.5°	561.5	560.7	559.9	559.1	556.7
25°	549.6	549.6	546.4	544.9	545.7
27.5°	535.4	536.9	535.4	533.8	532.2
30°	526.6	522.7	521.1	519.5	517.9
32.5°	511.6	510.0	505.3	502.9	504.5
35°	494.2	494.2	491.8	489.4	487.8
37.5°	483.1	478.3	474.4	472.0	472.0
40°	464.1	464.1	457.0	453.8	457.0
42.5°	445.9	445.9	440.3	438.7	436.4
45°	433.2	426.1	420.5	417.4	418.9
47.5°	409.4	407.9	400.7	398.4	401.5
50°	388.8	388.1	380.1	378.6	377.8
52.5°	372.2	365.1	358.0	355.6	357.2
55°	346.1	342.9	335.0	332.6	336.6
57.5°	323.9	320.7	311.2	309.7	309.7
60°	301.7	294.6	285.1	283.5	287.5
62.5°	273.2	270.1	259.8	260.6	264.5
65°	248.7	243.1	233.6	236.0	234.4
67.5°	222.5	216.2	208.3	205.1	202.7
70°	192.4	188.5	182.9	171.9	165.5
72.5°	162.4	159.2	153.6	137.8	133.0
75°	135.4	131.5	122.8	110.1	103.0
77.5°	106.1	106.1	94.2	88.7	91.9
80°	79.2	80.0	71.3	77.6	80.0
82.5°	53.9	53.1	58.6	61.0	61.0
85°	31.7	32.5	38.0	38.8	38.8
87.5°	12.7	15.0	17.4	18.2	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)