

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: P392818

Luminaire Tested: **12EN-LD2-23-UNV-L92765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392818
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 (2700K)
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: 1722.8 lumens
Efficiency: N/A
Efficacy: 90.2 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

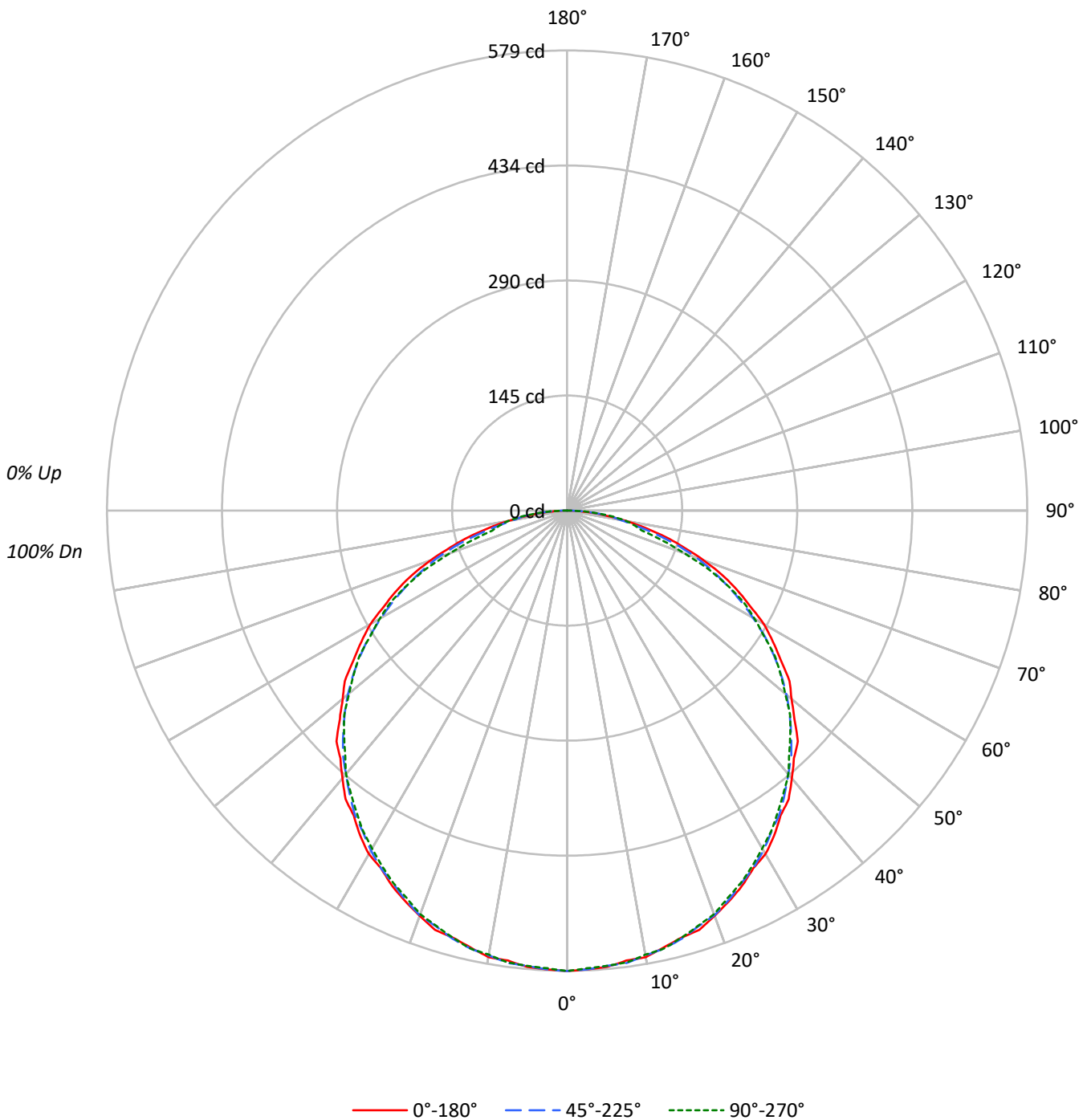
Input Watts (W): 19.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3118	3118	3118
5°	3114	3106	3106
10°	3117	3105	3101
15°	3098	3107	3098
20°	3108	3104	3095
25°	3093	3075	3071
30°	3102	3069	3050
35°	3077	3062	3037
40°	3090	3042	3042
45°	3124	3033	3022
50°	3085	3016	2997
55°	3078	2979	2993
60°	3077	2908	2932
65°	3002	2819	2828
70°	2870	2729	2469
75°	2668	2418	2030
80°	2328	2092	2349
85°	1853	2223	2272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.7	3.2
10°-20°	157.3	9.1
20°-30°	239.3	13.9
30°-40°	291.6	16.9
40°-50°	308.9	17.9
50°-60°	286.1	16.6
60°-70°	222.5	12.9
70°-80°	124.0	7.2
80°-90°	38.4	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°	451.4	26.2
0°-40°	742.9	43.1
0°-60°	1337.9	77.7
0°-90°	1722.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1722.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	579	579	579	579	579	
5°	576	574	575	576	575	55
15°	556	558	558	558	556	158
25°	521	521	518	516	517	240
35°	468	468	466	464	462	295
45°	410	404	398	396	397	314
55°	328	325	318	315	319	294
65°	236	230	221	224	222	233
75°	128	125	116	104	98	135
85°	30	31	36	37	37	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	579.4	579.4	579.4	579.4	579.4
2.5°	577.9	577.9	577.9	577.9	576.4
5°	576.4	574.1	574.9	576.4	574.9
7.5°	571.1	573.4	574.1	574.1	573.4
10°	570.4	568.1	568.1	568.1	567.4
12.5°	562.9	563.6	564.4	564.4	564.4
15°	556.1	558.4	557.6	557.6	556.1
17.5°	553.1	549.4	548.6	548.6	547.9
20°	542.6	541.1	541.9	540.4	540.4
22.5°	532.1	531.4	530.6	529.9	527.6
25°	520.9	520.9	517.8	516.3	517.1
27.5°	507.3	508.8	507.3	505.8	504.3
30°	499.1	495.3	493.8	492.3	490.8
32.5°	484.8	483.3	478.8	476.6	478.1
35°	468.3	468.3	466.1	463.8	462.3
37.5°	457.8	453.3	449.6	447.3	447.3
40°	439.8	439.8	433.0	430.0	433.0
42.5°	422.5	422.5	417.3	415.8	413.5
45°	410.5	403.8	398.5	395.5	397.0
47.5°	388.0	386.5	379.8	377.5	380.5
50°	368.5	367.7	360.2	358.7	358.0
52.5°	352.7	346.0	339.2	337.0	338.5
55°	328.0	325.0	317.5	315.2	319.0
57.5°	307.0	304.0	294.9	293.4	293.4
60°	285.9	279.2	270.2	268.7	272.4
62.5°	258.9	255.9	246.2	246.9	250.7
65°	235.7	230.4	221.4	223.7	222.1
67.5°	210.9	204.9	197.4	194.4	192.1
70°	182.4	178.6	173.4	162.9	156.9
72.5°	153.9	150.9	145.6	130.6	126.1
75°	128.3	124.6	116.3	104.3	97.6
77.5°	100.6	100.6	89.3	84.1	87.1
80°	75.1	75.8	67.5	73.5	75.8
82.5°	51.0	50.3	55.5	57.8	57.8
85°	30.0	30.8	36.0	36.8	36.8
87.5°	12.0	14.3	16.5	17.3	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)