

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: P392807

Luminaire Tested: **12EN-LD2-23-UNV-L82765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392807
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-L82765-W2A-1-U (5000K)
Description: 1X2 ENCOUNTER, 2300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2204.3 lumens
Efficiency: N/A
Efficacy: 115.4 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

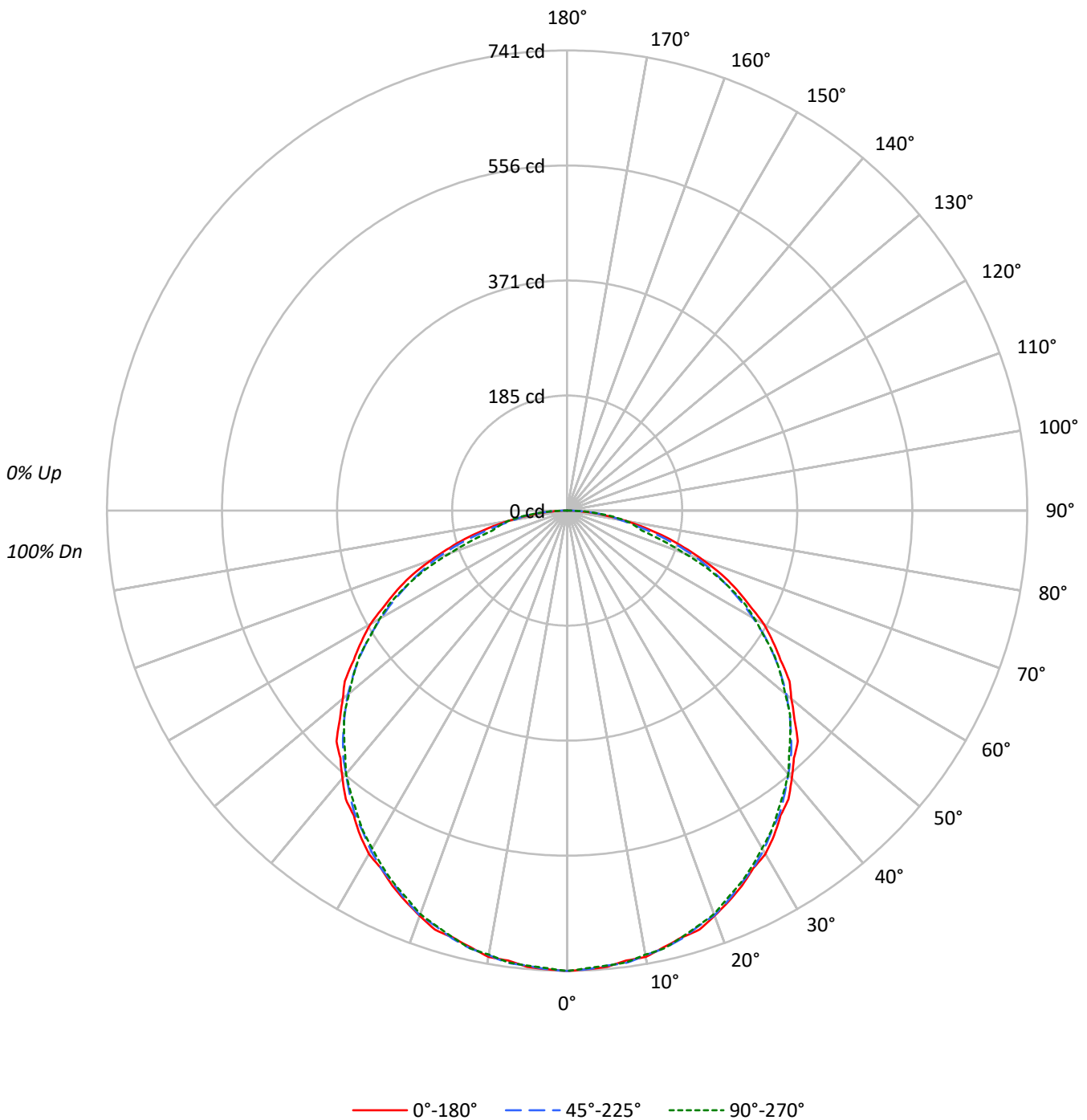
Input Watts (W): 19.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3990	3990	3990
5°	3984	3974	3974
10°	3988	3972	3968
15°	3965	3975	3965
20°	3977	3971	3960
25°	3957	3935	3929
30°	3969	3927	3903
35°	3937	3918	3886
40°	3953	3893	3893
45°	3998	3881	3867
50°	3948	3859	3836
55°	3937	3811	3829
60°	3939	3721	3752
65°	3840	3608	3619
70°	3671	3490	3158
75°	3414	3094	2595
80°	2975	2678	3006
85°	2371	2847	2908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	3.2
10°-20°	201.3	9.1
20°-30°	306.2	13.9
30°-40°	373.0	16.9
40°-50°	395.2	17.9
50°-60°	366.0	16.6
60°-70°	284.7	12.9
70°-80°	158.7	7.2
80°-90°	49.1	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°	577.5	26.2
0°-40°	950.6	43.1
0°-60°	1711.8	77.7
0°-90°	2204.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2204.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	741	741	741	741	741	
5°	738	735	736	738	736	70
15°	712	714	714	714	712	202
25°	666	666	663	661	662	307
35°	599	599	596	593	592	377
45°	525	517	510	506	508	402
55°	420	416	406	403	408	376
65°	302	295	283	286	284	298
75°	164	159	149	134	125	173
85°	38	39	46	47	47	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	741.3	741.3	741.3	741.3	741.3
2.5°	739.4	739.4	739.4	739.4	737.5
5°	737.5	734.6	735.6	737.5	735.6
7.5°	730.8	733.6	734.6	734.6	733.6
10°	729.8	726.9	726.9	726.9	726.0
12.5°	720.2	721.2	722.1	722.1	722.1
15°	711.6	714.4	713.5	713.5	711.6
17.5°	707.7	702.9	702.0	702.0	701.0
20°	694.3	692.4	693.3	691.4	691.4
22.5°	680.8	679.9	678.9	678.0	675.1
25°	666.4	666.4	662.6	660.7	661.6
27.5°	649.1	651.1	649.1	647.2	645.3
30°	638.6	633.8	631.9	629.9	628.0
32.5°	620.3	618.4	612.7	609.8	611.7
35°	599.2	599.2	596.3	593.4	591.5
37.5°	585.8	580.0	575.2	572.3	572.3
40°	562.7	562.7	554.1	550.2	554.1
42.5°	540.6	540.6	533.9	532.0	529.1
45°	525.3	516.6	509.9	506.1	508.0
47.5°	496.5	494.5	485.9	483.0	486.9
50°	471.5	470.5	460.9	459.0	458.1
52.5°	451.3	442.7	434.0	431.2	433.1
55°	419.6	415.8	406.2	403.3	408.1
57.5°	392.8	388.9	377.4	375.5	375.5
60°	365.9	357.2	345.7	343.8	348.6
62.5°	331.3	327.5	315.0	315.9	320.7
65°	301.5	294.8	283.3	286.2	284.2
67.5°	269.8	262.2	252.6	248.7	245.8
70°	233.3	228.5	221.8	208.4	200.7
72.5°	196.9	193.0	186.3	167.1	161.3
75°	164.2	159.4	148.8	133.5	124.8
77.5°	128.7	128.7	114.3	107.6	111.4
80°	96.0	97.0	86.4	94.1	97.0
82.5°	65.3	64.3	71.1	73.9	73.9
85°	38.4	39.4	46.1	47.1	47.1
87.5°	15.4	18.2	21.1	22.1	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)