

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: P392819

Luminaire Tested: **12EN-LD2-23-UNV-L92765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392819
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 (3000K)
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: 1777.1 lumens
Efficiency: N/A
Efficacy: 93.0 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

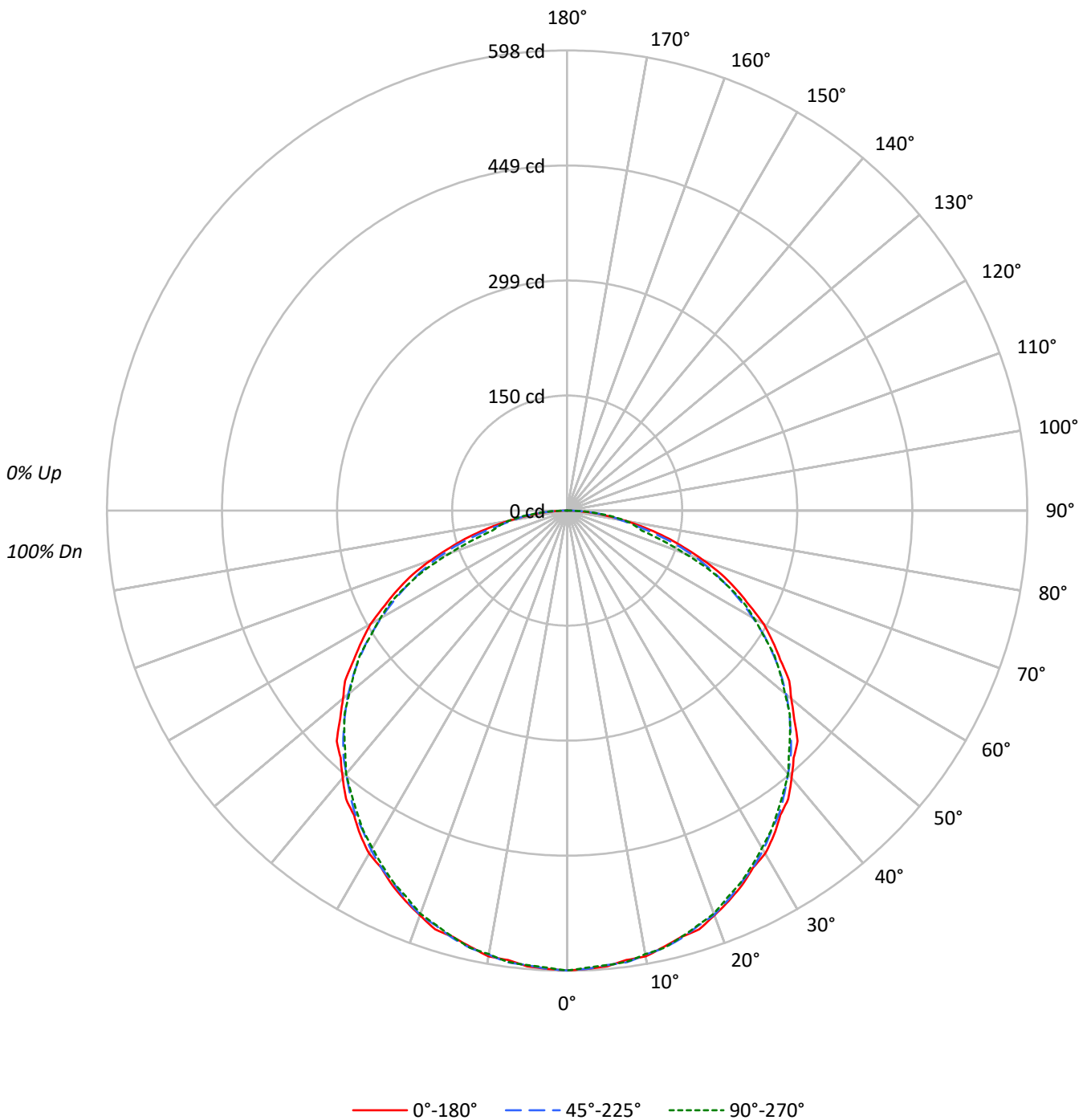
Input Watts (W): 19.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3216	3216	3216
5°	3212	3204	3204
10°	3216	3202	3199
15°	3196	3205	3196
20°	3206	3201	3192
25°	3191	3172	3168
30°	3199	3166	3146
35°	3174	3158	3133
40°	3188	3138	3138
45°	3223	3129	3117
50°	3183	3111	3092
55°	3174	3073	3087
60°	3175	3000	3025
65°	3096	2909	2918
70°	2960	2814	2546
75°	2753	2495	2092
80°	2399	2160	2424
85°	1914	2297	2340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.5	3.2
10°-20°	162.3	9.1
20°-30°	246.8	13.9
30°-40°	300.7	16.9
40°-50°	318.6	17.9
50°-60°	295.1	16.6
60°-70°	229.5	12.9
70°-80°	127.9	7.2
80°-90°	39.6	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°	465.6	26.2
0°-40°	766.3	43.1
0°-60°	1380.0	77.7
0°-90°	1777.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1777.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	598	598	598	598	598	
5°	594	592	593	594	593	56
15°	574	576	575	575	574	163
25°	537	537	534	533	533	248
35°	483	483	481	478	477	304
45°	424	416	411	408	410	324
55°	338	335	328	325	329	303
65°	243	238	228	231	229	240
75°	132	128	120	108	101	139
85°	31	32	37	38	38	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	597.6	597.6	597.6	597.6	597.6
2.5°	596.1	596.1	596.1	596.1	594.5
5°	594.5	592.2	593.0	594.5	593.0
7.5°	589.1	591.5	592.2	592.2	591.5
10°	588.4	586.0	586.0	586.0	585.3
12.5°	580.6	581.4	582.2	582.2	582.2
15°	573.6	576.0	575.2	575.2	573.6
17.5°	570.6	566.7	565.9	565.9	565.1
20°	559.7	558.2	558.9	557.4	557.4
22.5°	548.9	548.1	547.3	546.6	544.2
25°	537.3	537.3	534.2	532.6	533.4
27.5°	523.3	524.9	523.3	521.8	520.2
30°	514.8	510.9	509.4	507.8	506.3
32.5°	500.1	498.6	493.9	491.6	493.1
35°	483.1	483.1	480.7	478.4	476.9
37.5°	472.2	467.6	463.7	461.4	461.4
40°	453.7	453.7	446.7	443.6	446.7
42.5°	435.8	435.8	430.4	428.9	426.6
45°	423.5	416.5	411.1	408.0	409.5
47.5°	400.2	398.7	391.7	389.4	392.5
50°	380.1	379.3	371.6	370.0	369.3
52.5°	363.9	356.9	349.9	347.6	349.1
55°	338.3	335.2	327.5	325.1	329.0
57.5°	316.6	313.5	304.2	302.7	302.7
60°	295.0	288.0	278.7	277.1	281.0
62.5°	267.1	264.0	253.9	254.7	258.6
65°	243.1	237.7	228.4	230.7	229.1
67.5°	217.5	211.3	203.6	200.5	198.2
70°	188.1	184.2	178.8	168.0	161.8
72.5°	158.7	155.6	150.2	134.7	130.1
75°	132.4	128.5	120.0	107.6	100.6
77.5°	103.7	103.7	92.1	86.7	89.8
80°	77.4	78.2	69.7	75.9	78.2
82.5°	52.6	51.9	57.3	59.6	59.6
85°	31.0	31.7	37.2	37.9	37.9
87.5°	12.4	14.7	17.0	17.8	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)