

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: P392805

Luminaire Tested: **12EN-LD2-23-UNV-L82765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392805  
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 (4000K)  
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: 2144.3 lumens  
Efficiency: N/A  
Efficacy: 111.1 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

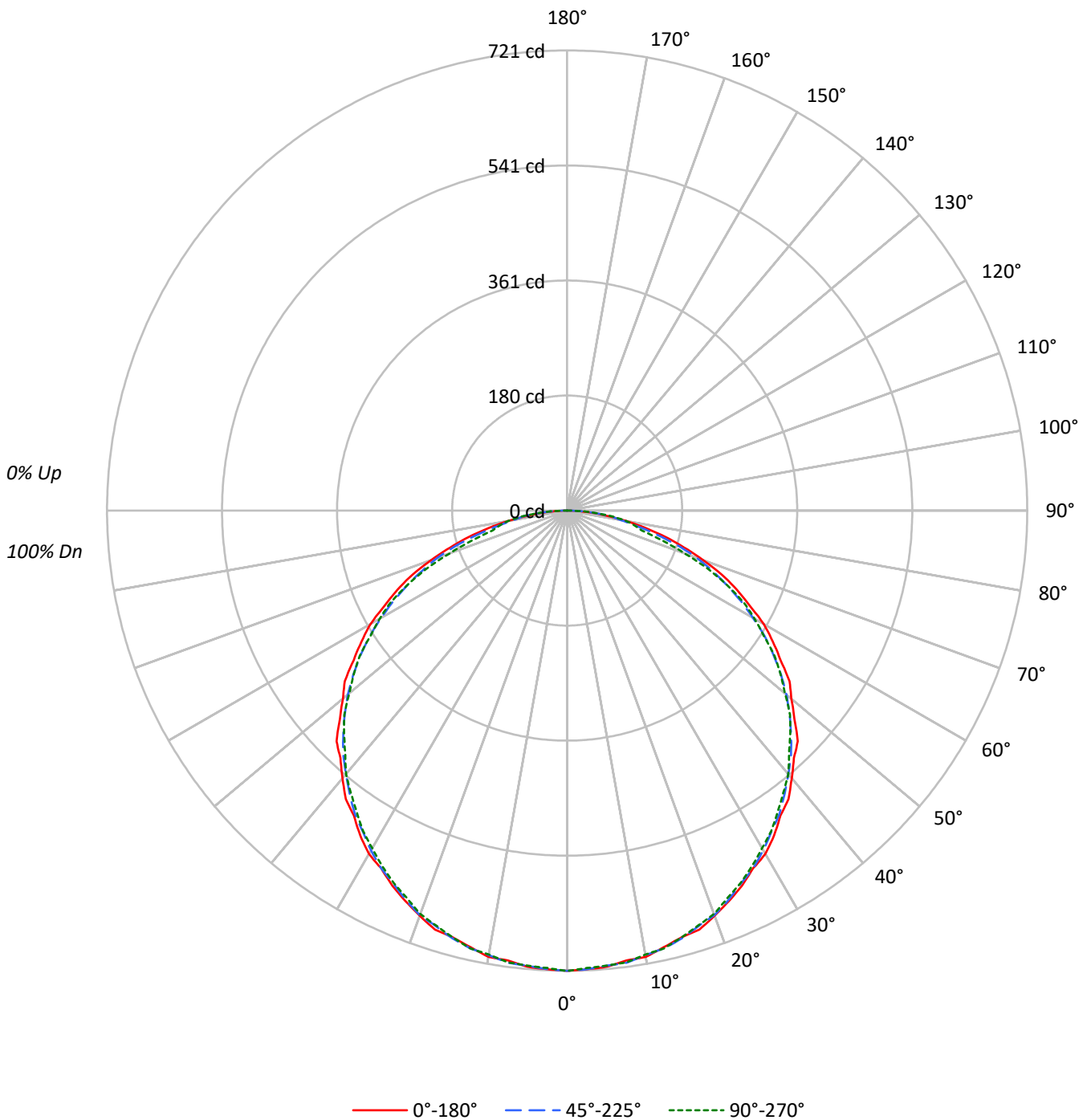
Input Watts (W): 19.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3881	3881	3881
5°	3876	3866	3866
10°	3880	3864	3859
15°	3857	3867	3857
20°	3868	3863	3852
25°	3850	3828	3822
30°	3860	3820	3796
35°	3830	3811	3780
40°	3846	3787	3787
45°	3889	3775	3761
50°	3841	3754	3731
55°	3830	3707	3725
60°	3831	3620	3650
65°	3735	3510	3521
70°	3572	3396	3072
75°	3321	3011	2524
80°	2895	2607	2923
85°	2309	2766	2828



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.1	3.2
10°-20°	195.8	9.1
20°-30°	297.9	13.9
30°-40°	362.9	16.9
40°-50°	384.5	17.9
50°-60°	356.0	16.6
60°-70°	277.0	12.9
70°-80°	154.3	7.2
80°-90°	47.8	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°	561.8	26.2
0°-40°	924.7	43.1
0°-60°	1665.3	77.7
0°-90°	2144.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2144.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	721	721	721	721	721	
5°	717	715	716	717	716	68
15°	692	695	694	694	692	196
25°	648	648	645	643	644	299
35°	583	583	580	577	575	367
45°	511	503	496	492	494	391
55°	408	404	395	392	397	366
65°	293	287	276	278	276	289
75°	160	155	145	130	121	168
85°	37	38	45	46	46	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	721.2	721.2	721.2	721.2	721.2
2.5°	719.3	719.3	719.3	719.3	717.4
5°	717.4	714.6	715.6	717.4	715.6
7.5°	710.9	713.7	714.6	714.6	713.7
10°	710.0	707.1	707.1	707.1	706.2
12.5°	700.6	701.5	702.5	702.5	702.5
15°	692.2	695.0	694.1	694.1	692.2
17.5°	688.5	683.8	682.9	682.9	681.9
20°	675.4	673.5	674.5	672.6	672.6
22.5°	662.3	661.4	660.4	659.5	656.7
25°	648.3	648.3	644.6	642.7	643.6
27.5°	631.5	633.4	631.5	629.6	627.7
30°	621.2	616.5	614.7	612.8	610.9
32.5°	603.5	601.6	596.0	593.2	595.1
35°	582.9	582.9	580.1	577.3	575.4
37.5°	569.8	564.2	559.6	556.8	556.8
40°	547.4	547.4	539.0	535.3	539.0
42.5°	525.9	525.9	519.4	517.5	514.7
45°	511.0	502.6	496.0	492.3	494.2
47.5°	483.0	481.1	472.7	469.9	473.6
50°	458.7	457.7	448.4	446.5	445.6
52.5°	439.0	430.6	422.2	419.4	421.3
55°	408.2	404.5	395.1	392.3	397.0
57.5°	382.1	378.3	367.1	365.3	365.3
60°	355.9	347.5	336.3	334.4	339.1
62.5°	322.3	318.5	306.4	307.3	312.0
65°	293.3	286.8	275.6	278.4	276.5
67.5°	262.5	255.0	245.7	241.9	239.1
70°	227.0	222.3	215.8	202.7	195.2
72.5°	191.5	187.8	181.2	162.5	156.9
75°	159.7	155.1	144.8	129.8	121.4
77.5°	125.2	125.2	111.2	104.6	108.4
80°	93.4	94.3	84.1	91.5	94.3
82.5°	63.5	62.6	69.1	71.9	71.9
85°	37.4	38.3	44.8	45.8	45.8
87.5°	14.9	17.7	20.6	21.5	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)