

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: P392888

Luminaire Tested: **12EN-LD2-31-UNV-L92765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392888  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-38)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 12EN-LD2-31-UNV-L92765-W2A-1-U (5700K)  
Description: 1X2 ENCOUNTER, 3100 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2675.5 lumens  
Efficiency: N/A  
Efficacy: 99.8 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

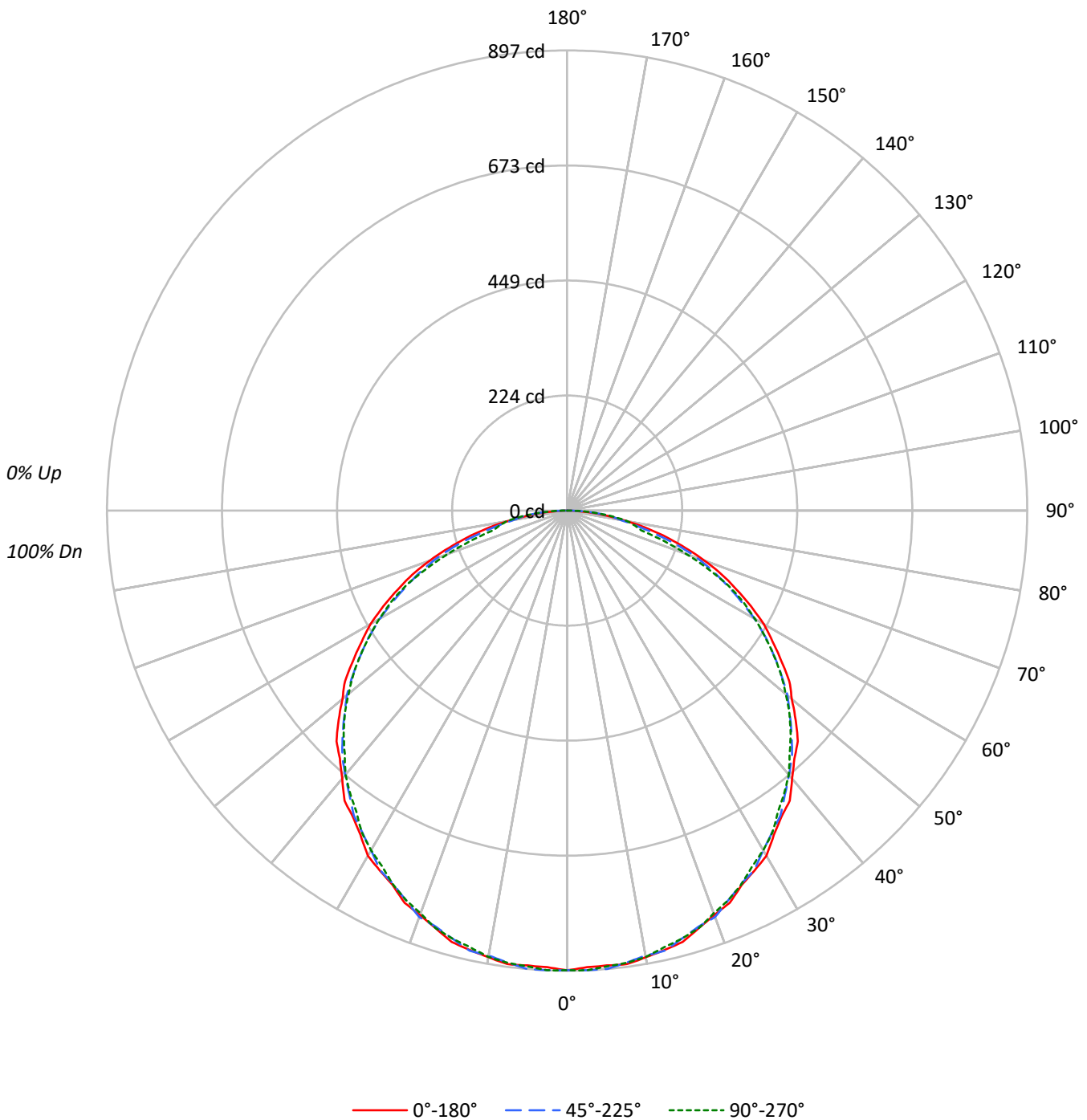
Input Watts (W): 26.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4823	4823	4823
5°	4809	4846	4818
10°	4832	4813	4827
15°	4850	4812	4812
20°	4804	4828	4784
25°	4783	4767	4773
30°	4829	4750	4750
35°	4785	4763	4707
40°	4792	4726	4721
45°	4840	4710	4690
50°	4787	4694	4658
55°	4778	4617	4617
60°	4763	4533	4551
65°	4643	4371	4425
70°	4485	4242	3891
75°	4182	3772	3115
80°	3636	3264	3688
85°	2853	3538	3594



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.9	3.2
10°-20°	244.2	9.1
20°-30°	371.5	13.9
30°-40°	452.8	16.9
40°-50°	479.4	17.9
50°-60°	443.9	16.6
60°-70°	345.4	12.9
70°-80°	193.3	7.2
80°-90°	60.0	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°	700.6	26.2
0°-40°	1153.4	43.1
0°-60°	2076.7	77.6
0°-90°	2675.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2675.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	896	896	896	896	896	
5°	890	896	897	898	892	85
15°	870	865	864	862	864	245
25°	805	804	803	802	804	373
35°	728	728	725	721	716	458
45°	636	631	619	615	616	487
55°	509	505	492	490	492	456
65°	365	356	343	344	348	361
75°	201	194	181	163	150	211
85°	46	48	57	57	58	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	896.1	896.1	896.1	896.1	896.1
2.5°	891.0	894.4	896.9	896.9	896.9
5°	890.1	896.1	896.9	897.8	891.8
7.5°	891.8	887.5	888.4	886.7	889.2
10°	884.1	879.8	880.7	882.4	883.3
12.5°	877.3	878.1	879.0	878.1	872.1
15°	870.4	865.3	863.6	861.9	863.6
17.5°	853.3	849.9	850.7	851.6	853.3
20°	838.8	843.0	843.0	841.3	835.3
22.5°	827.6	826.8	821.6	819.1	821.6
25°	805.4	803.7	802.8	801.9	803.7
27.5°	790.8	790.8	790.0	786.5	781.4
30°	777.1	772.8	764.3	762.6	764.3
32.5°	749.7	746.3	743.7	740.3	744.6
35°	728.3	728.3	724.9	720.6	716.4
37.5°	712.9	707.8	697.5	694.1	695.0
40°	682.1	678.7	672.7	668.4	671.9
42.5°	655.6	654.7	648.7	643.6	641.9
45°	635.9	630.8	618.8	615.4	616.2
47.5°	604.2	599.1	588.8	585.4	588.0
50°	571.7	568.3	560.6	555.5	556.3
52.5°	546.0	539.2	526.4	524.6	525.5
55°	509.2	505.0	492.1	489.6	492.1
57.5°	475.0	469.9	457.9	452.8	457.0
60°	442.5	434.8	421.1	419.4	422.8
62.5°	404.0	398.0	381.7	382.6	387.7
65°	364.6	356.0	343.2	344.1	347.5
67.5°	326.9	317.5	307.3	302.1	297.8
70°	285.0	278.2	269.6	253.3	247.3
72.5°	241.4	235.4	227.7	202.8	198.6
75°	201.1	194.3	181.4	162.6	149.8
77.5°	158.3	154.9	139.5	130.9	135.2
80°	117.3	117.3	105.3	114.7	119.0
82.5°	78.7	77.9	86.4	90.7	89.9
85°	46.2	47.9	57.3	57.3	58.2
87.5°	19.7	22.3	26.5	27.4	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)