

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: P392838

Luminaire Tested: **12EN-LD2-27-UNV-L82765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-37)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12EN-LD2-27-UNV-L82765-W2A-1-U (4500K)
Description: 1X2 ENCOUNTER, 2700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2643.6 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.4
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

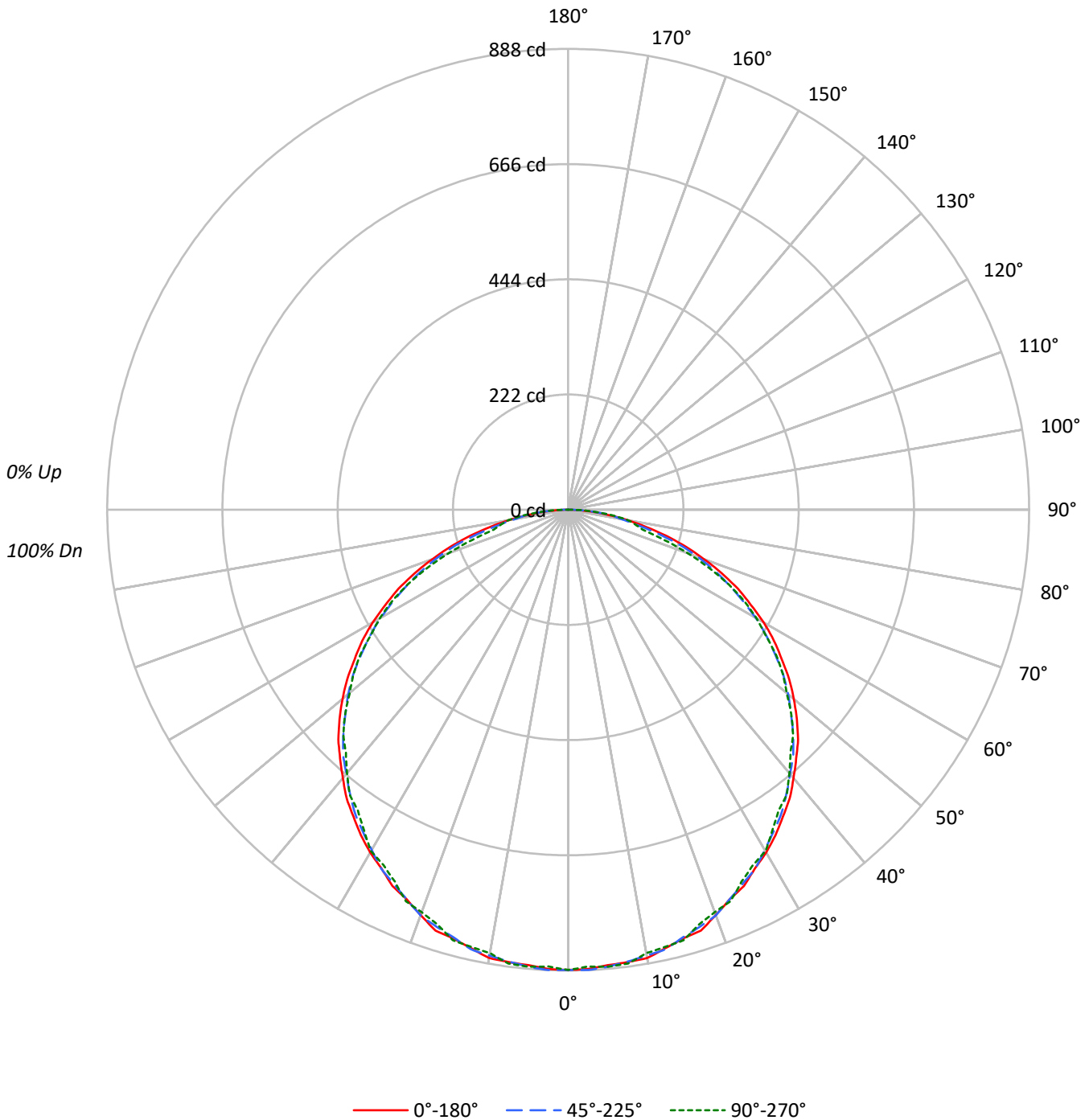
Input Watts (W): 23.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4773	4773	4773
5°	4760	4775	4775
10°	4794	4768	4741
15°	4764	4753	4786
20°	4759	4765	4726
25°	4752	4723	4695
30°	4740	4704	4722
35°	4740	4702	4644
40°	4744	4669	4656
45°	4766	4663	4663
50°	4752	4631	4598
55°	4711	4567	4594
60°	4679	4493	4514
65°	4593	4336	4348
70°	4375	4178	3860
75°	4080	3720	3080
80°	3608	3189	3636
85°	2853	3384	3501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	3.2
10°-20°	241.3	9.1
20°-30°	367.1	13.9
30°-40°	447.5	16.9
40°-50°	474.1	17.9
50°-60°	439.1	16.6
60°-70°	341.2	12.9
70°-80°	190.5	7.2
80°-90°	58.8	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°	692.4	26.2
0°-40°	1139.9	43.1
0°-60°	2053.1	77.7
0°-90°	2643.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2643.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	887	887	887	887	887	
5°	881	884	884	884	884	84
15°	855	854	853	852	859	242
25°	800	798	795	794	791	368
35°	721	718	716	712	707	452
45°	626	620	613	607	613	482
55°	502	500	487	484	490	450
65°	361	353	340	341	341	355
75°	196	191	179	161	148	207
85°	46	47	55	57	57	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	886.8	886.8	886.8	886.8	886.8
2.5°	885.8	884.9	887.8	885.8	881.0
5°	881.0	883.9	883.9	883.9	883.9
7.5°	879.1	877.2	878.1	879.1	882.0
10°	877.2	871.4	872.4	871.4	867.6
12.5°	865.6	865.6	867.6	865.6	862.8
15°	855.1	854.1	853.1	852.2	858.9
17.5°	850.3	842.6	842.6	843.5	837.8
20°	831.0	831.0	832.0	829.1	825.2
22.5°	812.7	815.6	812.7	808.9	816.6
25°	800.2	798.3	795.4	794.5	790.6
27.5°	779.1	781.0	780.0	776.2	771.4
30°	762.7	760.8	757.0	752.2	759.8
32.5°	743.5	740.6	735.8	732.9	732.0
35°	721.4	718.5	715.6	711.8	706.9
37.5°	701.2	696.4	690.6	684.8	691.6
40°	675.2	673.3	664.6	660.8	662.7
42.5°	650.2	648.3	641.5	636.7	633.8
45°	626.2	620.4	612.7	606.9	612.7
47.5°	597.3	593.4	581.9	580.0	582.9
50°	567.5	562.7	553.1	550.2	549.2
52.5°	536.7	532.9	522.3	516.5	521.3
55°	502.1	500.2	486.7	483.8	489.6
57.5°	470.3	464.6	453.0	450.1	451.1
60°	434.7	429.9	417.4	413.6	419.4
62.5°	396.3	391.5	378.0	377.0	382.8
65°	360.7	353.0	340.5	341.4	341.4
67.5°	320.3	314.5	303.9	299.1	294.3
70°	278.0	274.1	265.5	250.1	245.3
72.5°	237.6	232.8	225.1	199.1	194.3
75°	196.2	191.4	178.9	160.6	148.1
77.5°	154.9	153.9	136.6	129.8	132.7
80°	116.4	115.4	102.9	113.5	117.3
82.5°	78.9	76.9	83.7	89.5	88.5
85°	46.2	47.1	54.8	56.7	56.7
87.5°	18.3	21.2	25.0	27.9	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)