

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: P392842

Luminaire Tested: **12EN-LD2-27-UNV-L83050-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392842
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-L83050-W2A-1-U (2700K)
Description: 1X2 ENCOUNTER, 2700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2651.9 lumens
Efficiency: N/A
Efficacy: 115.3 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

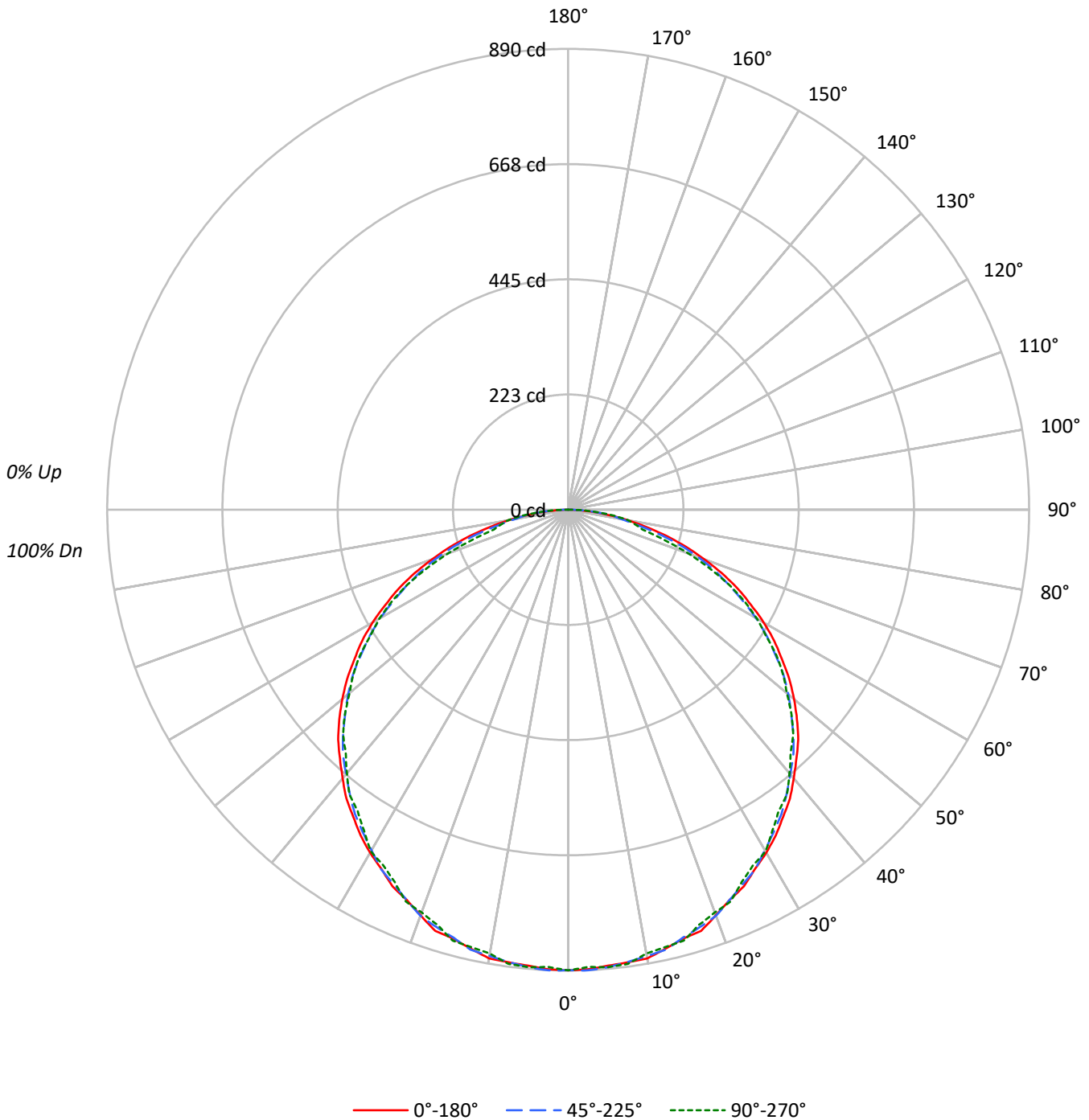
Input Watts (W): 23
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4788	4788	4788
5°	4775	4790	4790
10°	4809	4782	4756
15°	4779	4768	4801
20°	4774	4780	4741
25°	4767	4738	4710
30°	4755	4719	4737
35°	4754	4716	4659
40°	4758	4684	4671
45°	4781	4678	4678
50°	4766	4645	4613
55°	4725	4581	4608
60°	4694	4507	4528
65°	4607	4349	4362
70°	4387	4190	3871
75°	4092	3733	3090
80°	3617	3199	3648
85°	2859	3396	3514



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	3.2
10°-20°	242.1	9.1
20°-30°	368.3	13.9
30°-40°	448.8	16.9
40°-50°	475.6	17.9
50°-60°	440.5	16.6
60°-70°	342.3	12.9
70°-80°	191.1	7.2
80°-90°	59.0	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°	694.5	26.2
0°-40°	1143.4	43.1
0°-60°	2059.4	77.7
0°-90°	2651.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2651.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	890	890	890	890	890	
5°	884	887	887	887	887	84
15°	858	857	856	855	862	243
25°	803	801	798	797	793	369
35°	724	721	718	714	709	453
45°	628	622	615	609	615	483
55°	504	502	488	485	491	451
65°	362	354	342	342	342	356
75°	197	192	180	161	149	208
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°	889.6	889.6	889.6	889.6	889.6
2.5°	888.6	887.6	890.5	888.6	883.8
5°	883.8	886.7	886.7	886.7	886.7
7.5°	881.8	879.9	880.9	881.8	884.7
10°	879.9	874.1	875.1	874.1	870.3
12.5°	868.3	868.3	870.3	868.3	865.4
15°	857.7	856.8	855.8	854.8	861.6
17.5°	852.9	845.2	845.2	846.1	840.4
20°	833.6	833.6	834.6	831.7	827.8
22.5°	815.3	818.2	815.3	811.4	819.1
25°	802.7	800.8	797.9	796.9	793.1
27.5°	781.5	783.4	782.5	778.6	773.8
30°	765.1	763.2	759.3	754.5	762.2
32.5°	745.8	742.9	738.1	735.2	734.2
35°	723.6	720.7	717.8	714.0	709.1
37.5°	703.4	698.5	692.7	687.0	693.7
40°	677.3	675.4	666.7	662.8	664.8
42.5°	652.2	650.3	643.5	638.7	635.8
45°	628.1	622.3	614.6	608.8	614.6
47.5°	599.2	595.3	583.7	581.8	584.7
50°	569.2	564.4	554.8	551.9	550.9
52.5°	538.4	534.5	523.9	518.1	522.9
55°	503.6	501.7	488.2	485.3	491.1
57.5°	471.8	466.0	454.4	451.5	452.5
60°	436.1	431.3	418.7	414.9	420.7
62.5°	397.5	392.7	379.2	378.2	384.0
65°	361.8	354.1	341.5	342.5	342.5
67.5°	321.3	315.5	304.9	300.1	295.2
70°	278.8	275.0	266.3	250.9	246.0
72.5°	238.3	233.5	225.8	199.7	194.9
75°	196.8	192.0	179.5	161.1	148.6
77.5°	155.3	154.4	137.0	130.3	133.1
80°	116.7	115.8	103.2	113.8	117.7
82.5°	79.1	77.2	83.9	89.7	88.8
85°	46.3	47.3	55.0	56.9	56.9
87.5°	18.3	21.2	25.1	28.0	27.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)