

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: P392835

Luminaire Tested: **12EN-LD2-27-UNV-L82765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392835  
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 (3000K)  
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: 2521.0 lumens  
Efficiency: N/A  
Efficacy: 108.2 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

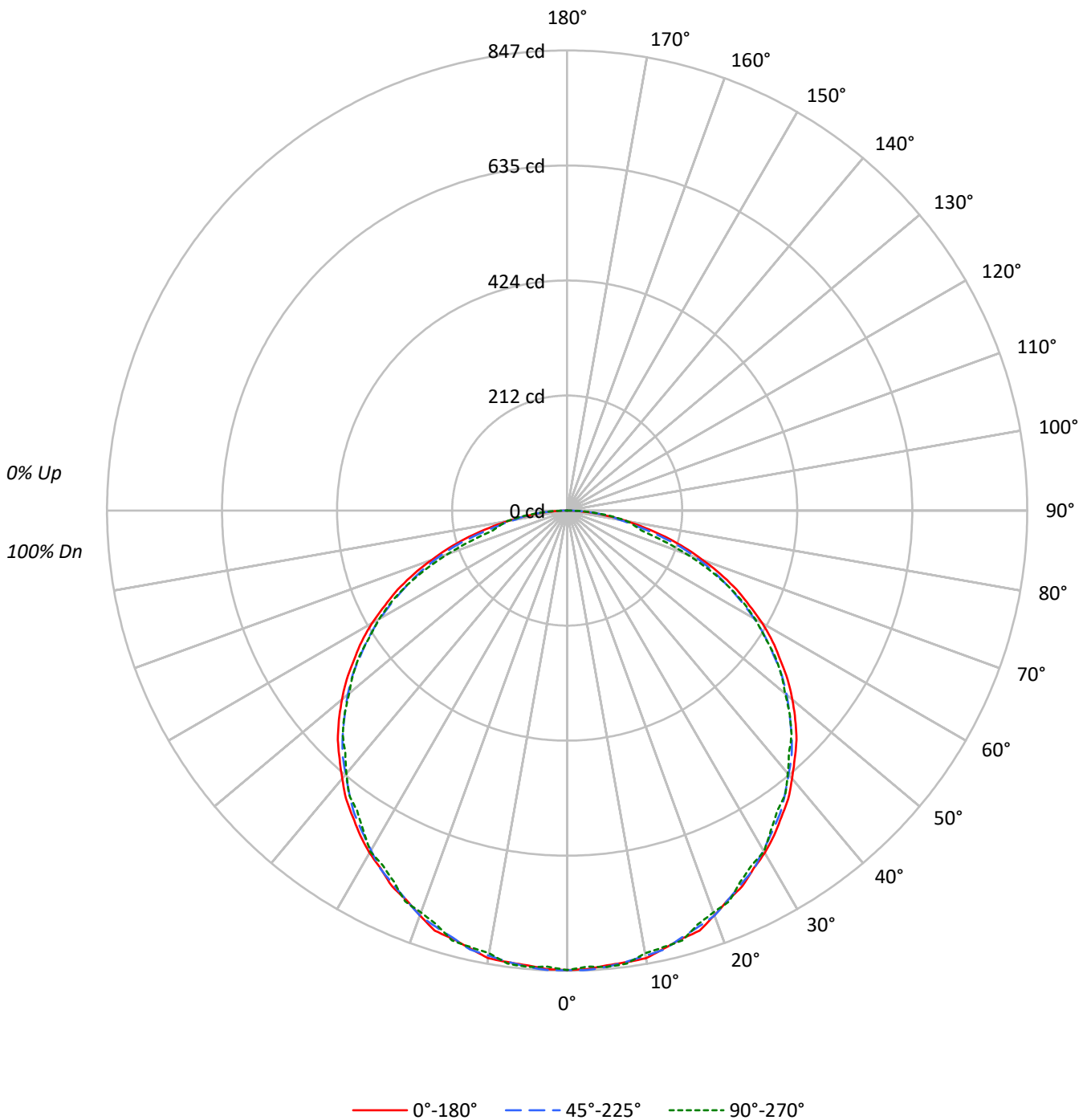
Input Watts (W): 23.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4552	4552	4552
5°	4539	4554	4554
10°	4571	4546	4521
15°	4543	4533	4564
20°	4539	4544	4507
25°	4532	4504	4478
30°	4520	4486	4503
35°	4520	4483	4430
40°	4524	4453	4440
45°	4545	4447	4447
50°	4531	4416	4385
55°	4493	4355	4381
60°	4463	4285	4304
65°	4381	4135	4146
70°	4172	3984	3681
75°	3891	3548	2938
80°	3440	3040	3468
85°	2717	3230	3341



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.1	3.2
10°-20°	230.1	9.1
20°-30°	350.1	13.9
30°-40°	426.7	16.9
40°-50°	452.1	17.9
50°-60°	418.7	16.6
60°-70°	325.4	12.9
70°-80°	181.7	7.2
80°-90°	56.1	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°	660.3	26.2
0°-40°	1087.0	43.1
0°-60°	1957.8	77.7
0°-90°	2521.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2521.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	846	846	846	846	846	
5°	840	843	843	843	843	80
15°	815	814	814	813	819	231
25°	763	761	758	758	754	351
35°	688	685	682	679	674	431
45°	597	592	584	579	584	460
55°	479	477	464	461	467	429
65°	344	337	325	326	326	338
75°	187	182	171	153	141	198
85°	44	45	52	54	54	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	845.7	845.7	845.7	845.7	845.7
2.5°	844.8	843.8	846.6	844.8	840.2
5°	840.2	842.9	842.9	842.9	842.9
7.5°	838.3	836.5	837.4	838.3	841.1
10°	836.5	831.0	831.9	831.0	827.3
12.5°	825.5	825.5	827.3	825.5	822.7
15°	815.4	814.5	813.6	812.7	819.1
17.5°	810.8	803.5	803.5	804.4	798.9
20°	792.5	792.5	793.4	790.6	787.0
22.5°	775.0	777.8	775.0	771.4	778.7
25°	763.1	761.3	758.5	757.6	754.0
27.5°	742.9	744.8	743.9	740.2	735.6
30°	727.4	725.5	721.8	717.3	724.6
32.5°	709.0	706.3	701.7	698.9	698.0
35°	687.9	685.2	682.4	678.7	674.2
37.5°	668.7	664.1	658.6	653.1	659.5
40°	643.9	642.1	633.8	630.1	632.0
42.5°	620.0	618.2	611.8	607.2	604.4
45°	597.1	591.6	584.3	578.8	584.3
47.5°	569.6	565.9	554.9	553.1	555.8
50°	541.2	536.6	527.4	524.6	523.7
52.5°	511.8	508.1	498.0	492.5	497.1
55°	478.8	477.0	464.1	461.4	466.9
57.5°	448.5	443.0	432.0	429.3	430.2
60°	414.6	410.0	398.1	394.4	399.9
62.5°	377.9	373.3	360.5	359.5	365.1
65°	344.0	336.6	324.7	325.6	325.6
67.5°	305.4	299.9	289.8	285.3	280.7
70°	265.1	261.4	253.2	238.5	233.9
72.5°	226.6	222.0	214.6	189.9	185.3
75°	187.1	182.5	170.6	153.2	141.3
77.5°	147.7	146.8	130.2	123.8	126.6
80°	111.0	110.1	98.1	108.2	111.9
82.5°	75.2	73.4	79.8	85.3	84.4
85°	44.0	44.9	52.3	54.1	54.1
87.5°	17.4	20.2	23.8	26.6	25.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)