

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: P392863

Luminaire Tested: **12EN-LD2-27-UNV-L93050-W2A-1-U (5000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392863  
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-L93050-W2A-1-U (5000K)  
Description: 1X2 ENCOUNTER, 2700 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2424.6 lumens  
Efficiency: N/A  
Efficacy: 105.9 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

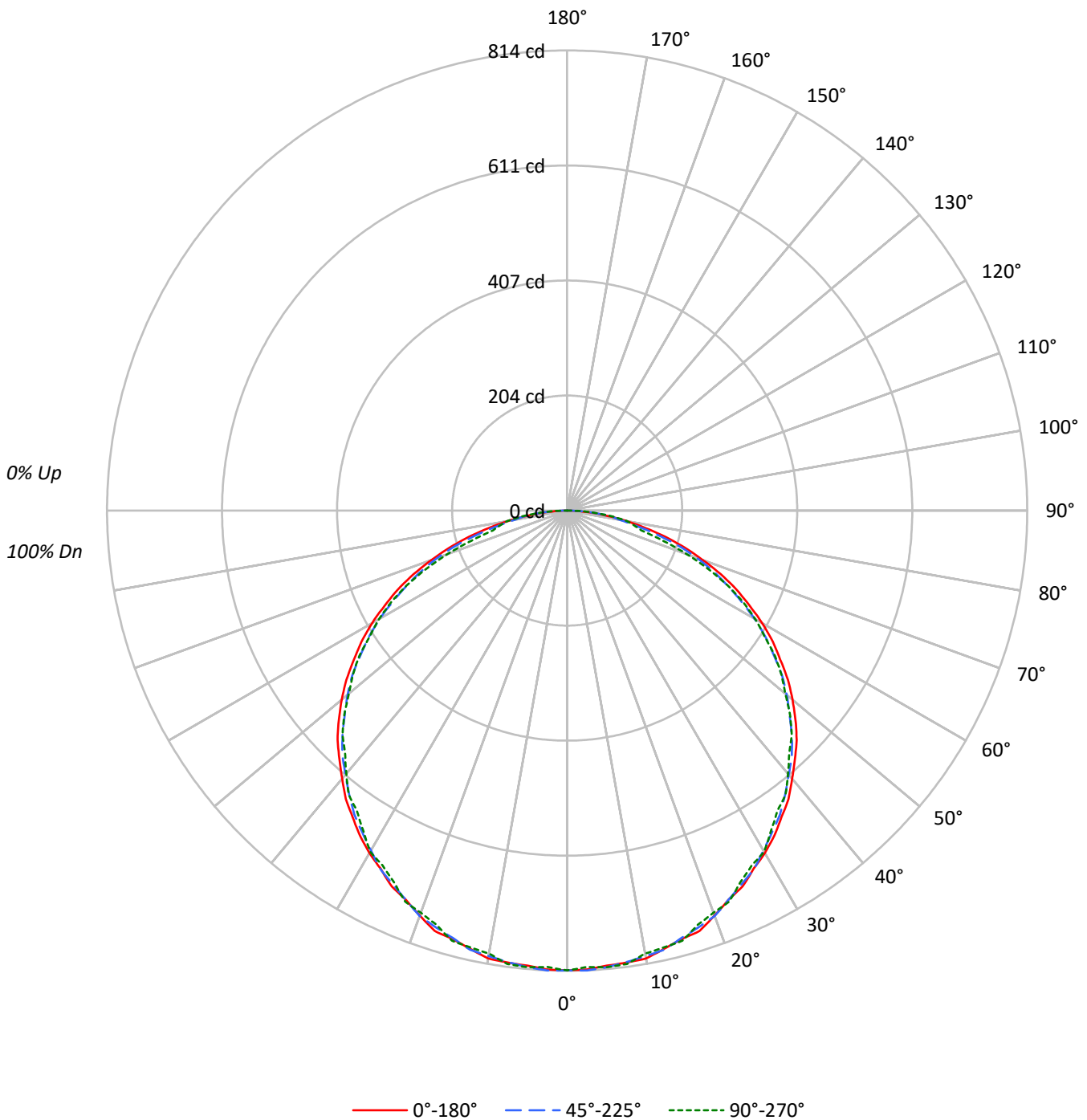
Input Watts (W): 22.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4377	4377	4377
5°	4365	4380	4380
10°	4397	4373	4348
15°	4369	4360	4389
20°	4365	4371	4335
25°	4358	4332	4306
30°	4347	4315	4331
35°	4347	4312	4260
40°	4351	4283	4270
45°	4371	4277	4277
50°	4358	4247	4217
55°	4321	4189	4213
60°	4292	4122	4140
65°	4213	3977	3989
70°	4011	3832	3539
75°	3743	3412	2826
80°	3307	2926	3335
85°	2612	3106	3211



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.0	3.2
10°-20°	221.3	9.1
20°-30°	336.7	13.9
30°-40°	410.4	16.9
40°-50°	434.8	17.9
50°-60°	402.7	16.6
60°-70°	313.0	12.9
70°-80°	174.7	7.2
80°-90°	53.9	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°	635.0	26.2
0°-40°	1045.4	43.1
0°-60°	1883.0	77.7
0°-90°	2424.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2424.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	813	813	813	813	813	
5°	808	811	811	811	811	77
15°	784	783	782	782	788	222
25°	734	732	730	729	725	338
35°	662	659	656	653	648	415
45°	574	569	562	557	562	442
55°	460	459	446	444	449	412
65°	331	324	312	313	313	325
75°	180	176	164	147	136	190
85°	42	43	50	52	52	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	813.3	813.3	813.3	813.3	813.3
2.5°	812.5	811.6	814.2	812.5	808.0
5°	808.0	810.7	810.7	810.7	810.7
7.5°	806.3	804.5	805.4	806.3	808.9
10°	804.5	799.2	800.1	799.2	795.7
12.5°	793.9	793.9	795.7	793.9	791.3
15°	784.2	783.3	782.5	781.6	787.8
17.5°	779.8	772.8	772.8	773.6	768.4
20°	762.2	762.2	763.1	760.4	756.9
22.5°	745.4	748.1	745.4	741.9	748.9
25°	733.9	732.2	729.5	728.7	725.1
27.5°	714.5	716.3	715.4	711.9	707.5
30°	699.5	697.8	694.3	689.8	696.9
32.5°	681.9	679.3	674.8	672.2	671.3
35°	661.6	659.0	656.3	652.8	648.4
37.5°	643.1	638.7	633.4	628.1	634.3
40°	619.3	617.5	609.6	606.0	607.8
42.5°	596.3	594.6	588.4	584.0	581.3
45°	574.3	569.0	561.9	556.6	561.9
47.5°	547.8	544.3	533.7	531.9	534.6
50°	520.5	516.1	507.2	504.6	503.7
52.5°	492.2	488.7	479.0	473.7	478.1
55°	460.5	458.7	446.4	443.7	449.0
57.5°	431.4	426.1	415.5	412.8	413.7
60°	398.7	394.3	382.9	379.3	384.6
62.5°	363.4	359.0	346.7	345.8	351.1
65°	330.8	323.7	312.3	313.2	313.2
67.5°	293.8	288.5	278.8	274.3	269.9
70°	254.9	251.4	243.5	229.4	224.9
72.5°	217.9	213.5	206.4	182.6	178.2
75°	180.0	175.5	164.1	147.3	135.9
77.5°	142.0	141.1	125.3	119.1	121.7
80°	106.7	105.9	94.4	104.1	107.6
82.5°	72.3	70.6	76.7	82.0	81.2
85°	42.3	43.2	50.3	52.0	52.0
87.5°	16.8	19.4	22.9	25.6	24.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)