

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: P393023

Luminaire Tested: **14EN-LD2-25-UNV-L93050-W2A-1-U (5000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393023  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-50)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14EN-LD2-25-UNV-L93050-W2A-1-U (5000K)  
Description: 1X4 ENCOUNTER, 2500 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2256.5 lumens  
Efficiency: N/A  
Efficacy: 87.5 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

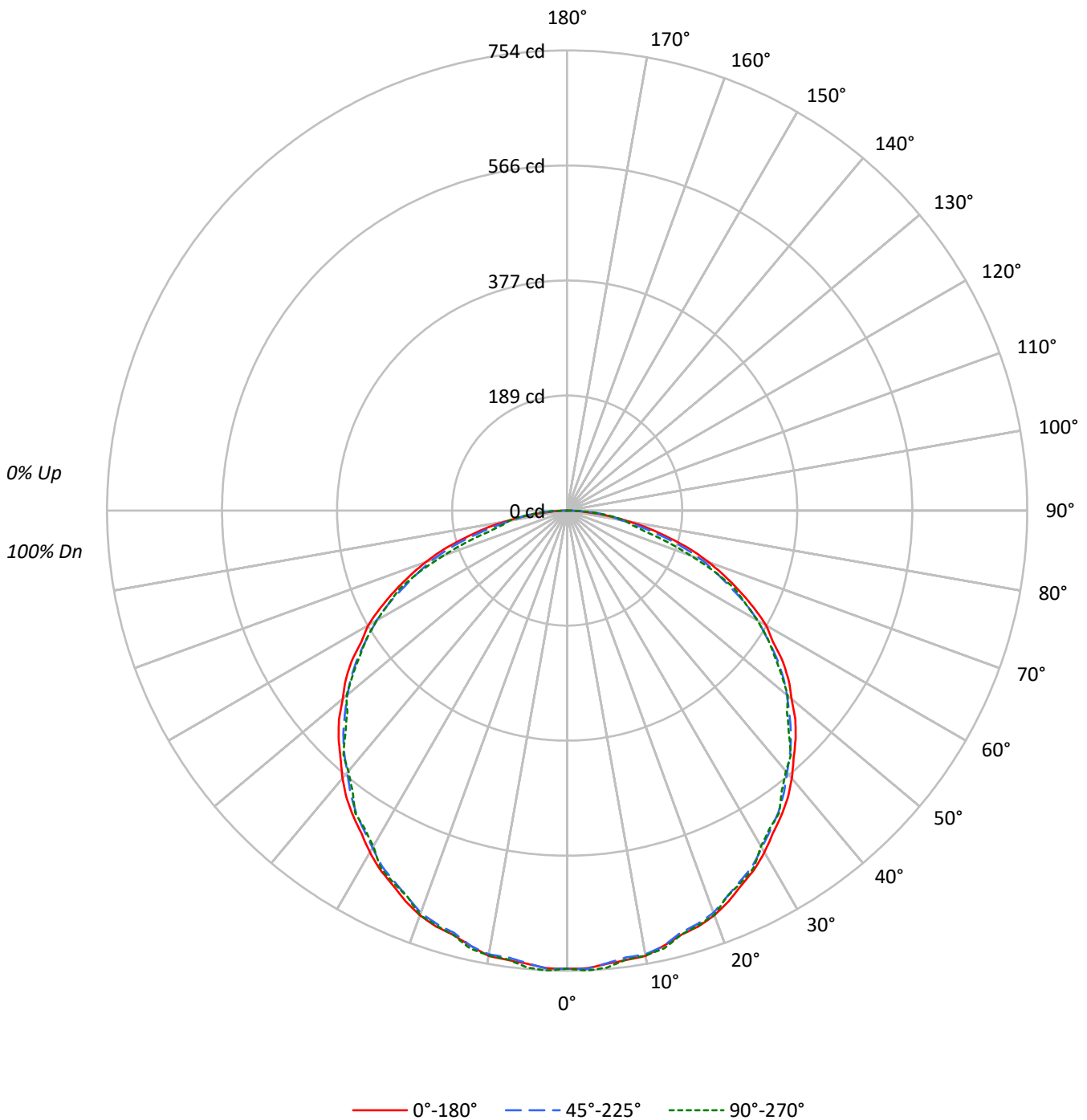
Input Watts (W): 25.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2020	2020	2020
5°	2014	2011	2030
10°	2025	2018	2022
15°	2005	1996	2005
20°	2021	2008	2018
25°	2009	1991	1999
30°	2009	1982	1973
35°	2008	1982	1988
40°	2011	1968	1958
45°	2014	1974	1954
50°	2009	1968	1976
55°	2024	1962	1945
60°	2027	1942	1937
65°	1983	1871	1927
70°	1936	1840	1693
75°	1807	1660	1366
80°	1599	1381	1503
85°	1145	1553	1497



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.0	3.1
10°-20°	203.9	9.0
20°-30°	310.5	13.8
30°-40°	378.0	16.8
40°-50°	401.4	17.8
50°-60°	375.5	16.6
60°-70°	297.0	13.2
70°-80°	167.7	7.4
80°-90°	51.3	2.3
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°	585.5	25.9
0°-40°	963.5	42.7
0°-60°	1740.5	77.1
0°-90°	2256.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2256.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	751	751	751	751	751	
5°	745	745	744	748	752	71
15°	720	722	716	723	720	204
25°	677	678	670	671	673	313
35°	611	610	603	599	605	383
45°	529	525	519	517	513	408
55°	431	425	418	415	415	384
65°	311	305	294	297	303	308
75°	174	169	160	141	131	185
85°	37	42	50	50	48	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	750.7	750.7	750.7	750.7	750.7
2.5°	750.7	752.5	751.6	748.9	754.2
5°	745.4	745.4	744.5	748.1	751.6
7.5°	742.8	743.7	738.4	745.4	741.9
10°	741.0	742.8	738.4	737.5	740.1
12.5°	730.4	729.5	730.4	730.4	734.8
15°	719.8	722.5	716.3	723.4	719.8
17.5°	714.5	718.1	710.1	711.0	712.8
20°	705.7	702.2	701.3	698.7	704.8
22.5°	692.5	687.2	684.5	688.1	684.5
25°	676.6	677.5	670.4	671.3	673.1
27.5°	663.4	662.5	657.2	655.4	660.7
30°	646.6	641.3	637.8	638.7	635.1
32.5°	627.2	626.3	620.2	619.3	617.5
35°	611.3	610.4	603.4	599.0	605.2
37.5°	593.7	587.5	583.1	580.5	577.8
40°	572.5	569.0	560.2	558.4	557.5
42.5°	549.6	549.6	540.8	535.5	542.5
45°	529.3	524.9	518.7	516.9	513.4
47.5°	507.2	502.8	494.0	491.4	488.7
50°	479.9	479.9	470.2	466.7	471.9
52.5°	457.8	453.4	445.5	443.7	442.8
55°	431.4	425.2	418.1	414.6	414.6
57.5°	399.6	397.8	388.1	385.5	389.0
60°	376.7	369.6	360.8	358.2	359.9
62.5°	344.9	338.7	329.0	327.3	329.0
65°	311.4	305.2	293.8	297.3	302.6
67.5°	278.8	273.5	262.9	265.5	261.1
70°	246.1	240.8	233.8	224.1	215.2
72.5°	212.6	202.9	198.5	180.0	173.8
75°	173.8	169.4	159.7	141.1	131.4
77.5°	139.4	135.0	122.6	106.7	107.6
80°	103.2	106.7	89.1	94.4	97.0
82.5°	68.8	68.8	73.2	76.7	76.7
85°	37.1	41.5	50.3	50.3	48.5
87.5°	14.1	20.3	22.1	22.1	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)