

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: P393021

Luminaire Tested: **14EN-LD2-25-UNV-L93050-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393021
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 (4000K)
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: 2234.4 lumens
Efficiency: N/A
Efficacy: 85.9 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

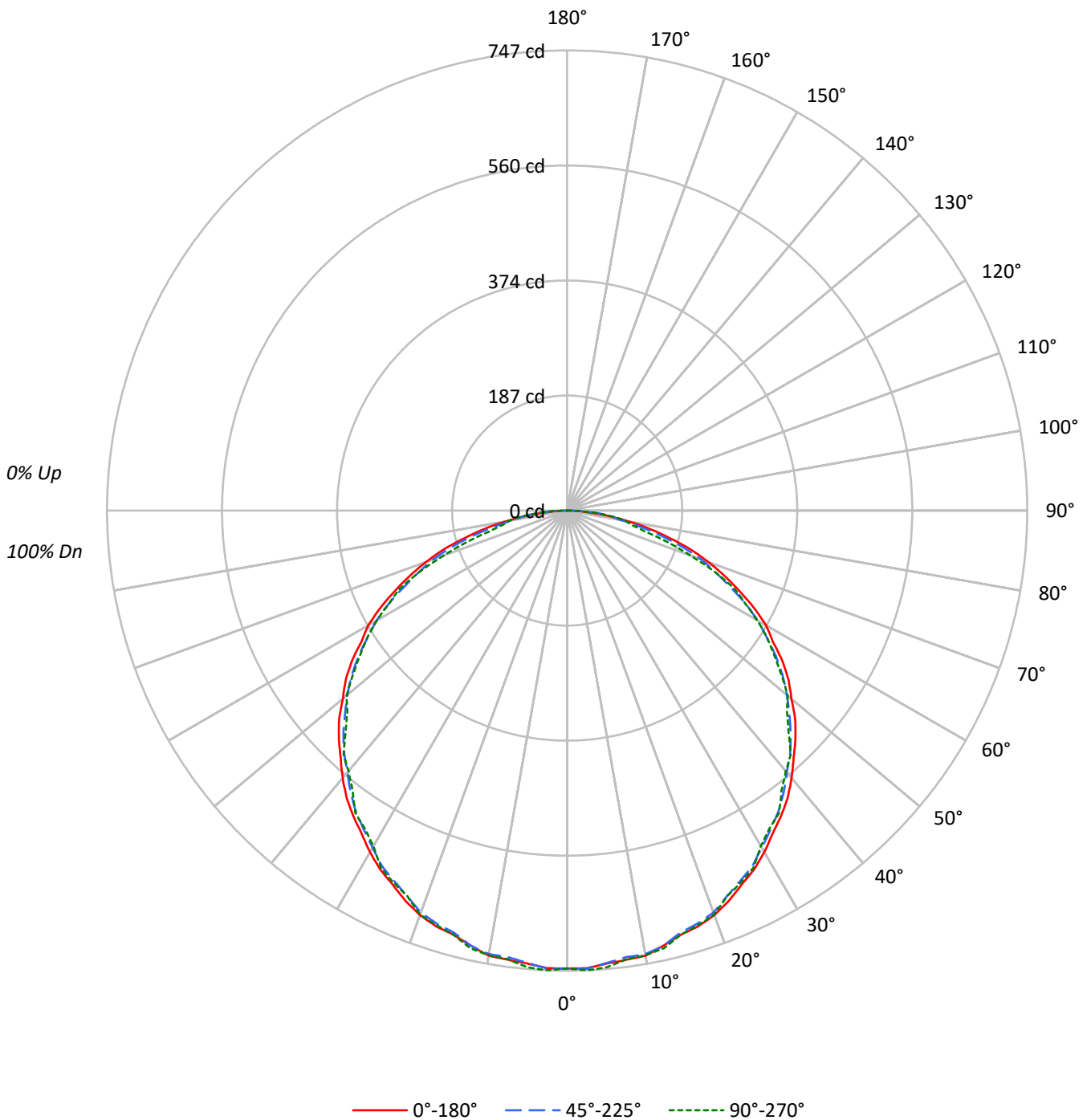
Input Watts (W): 26
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2000	2000	2000
5°	1994	1991	2010
10°	2005	1998	2003
15°	1986	1976	1986
20°	2001	1989	1999
25°	1989	1971	1979
30°	1990	1962	1954
35°	1988	1963	1968
40°	1991	1949	1939
45°	1995	1955	1935
50°	1989	1949	1956
55°	2004	1942	1926
60°	2007	1923	1918
65°	1963	1852	1908
70°	1917	1821	1677
75°	1789	1644	1354
80°	1584	1367	1489
85°	1133	1538	1482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	3.1
10°-20°	201.9	9.0
20°-30°	307.5	13.8
30°-40°	374.3	16.8
40°-50°	397.5	17.8
50°-60°	371.9	16.6
60°-70°	294.1	13.2
70°-80°	166.1	7.4
80°-90°	50.8	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°	579.8	25.9
0°-40°	954.1	42.7
0°-60°	1723.4	77.1
0°-90°	2234.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2234.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	743	743	743	743	743	
5°	738	738	737	741	744	70
15°	713	715	709	716	713	202
25°	670	671	664	665	666	310
35°	605	604	598	593	599	379
45°	524	520	514	512	508	404
55°	427	421	414	410	410	380
65°	308	302	291	294	300	305
75°	172	168	158	140	130	183
85°	37	41	50	50	48	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	743.4	743.4	743.4	743.4	743.4
2.5°	743.4	745.1	744.2	741.6	746.8
5°	738.1	738.1	737.2	740.7	744.2
7.5°	735.5	736.4	731.1	738.1	734.6
10°	733.7	735.5	731.1	730.3	732.9
12.5°	723.3	722.4	723.3	723.3	727.6
15°	712.8	715.4	709.3	716.3	712.8
17.5°	707.5	711.0	703.2	704.0	705.8
20°	698.8	695.3	694.4	691.8	697.9
22.5°	685.7	680.5	677.8	681.3	677.8
25°	670.0	670.9	663.9	664.7	666.5
27.5°	656.9	656.0	650.8	649.0	654.3
30°	640.3	635.0	631.5	632.4	628.9
32.5°	621.1	620.2	614.1	613.2	611.5
35°	605.3	604.5	597.5	593.1	599.2
37.5°	587.9	581.8	577.4	574.8	572.1
40°	566.9	563.4	554.7	552.9	552.1
42.5°	544.2	544.2	535.5	530.2	537.2
45°	524.1	519.7	513.6	511.9	508.4
47.5°	502.3	497.9	489.2	486.5	483.9
50°	475.2	475.2	465.6	462.1	467.3
52.5°	453.3	449.0	441.1	439.4	438.5
55°	427.1	421.0	414.0	410.5	410.5
57.5°	395.7	394.0	384.3	381.7	385.2
60°	373.0	366.0	357.3	354.6	356.4
62.5°	341.5	335.4	325.8	324.1	325.8
65°	308.3	302.2	290.9	294.4	299.6
67.5°	276.0	270.8	260.3	262.9	258.6
70°	243.7	238.5	231.5	221.9	213.1
72.5°	210.5	200.9	196.5	178.2	172.1
75°	172.1	167.7	158.1	139.8	130.2
77.5°	138.0	133.6	121.4	105.7	106.6
80°	102.2	105.7	88.2	93.5	96.1
82.5°	68.1	68.1	72.5	76.0	76.0
85°	36.7	41.1	49.8	49.8	48.0
87.5°	14.0	20.1	21.8	21.8	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)