

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: P393022

Luminaire Tested: **14EN-LD2-25-UNV-L93050-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393022
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 (4500K)
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: 2246.1 lumens
Efficiency: N/A
Efficacy: 86.7 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

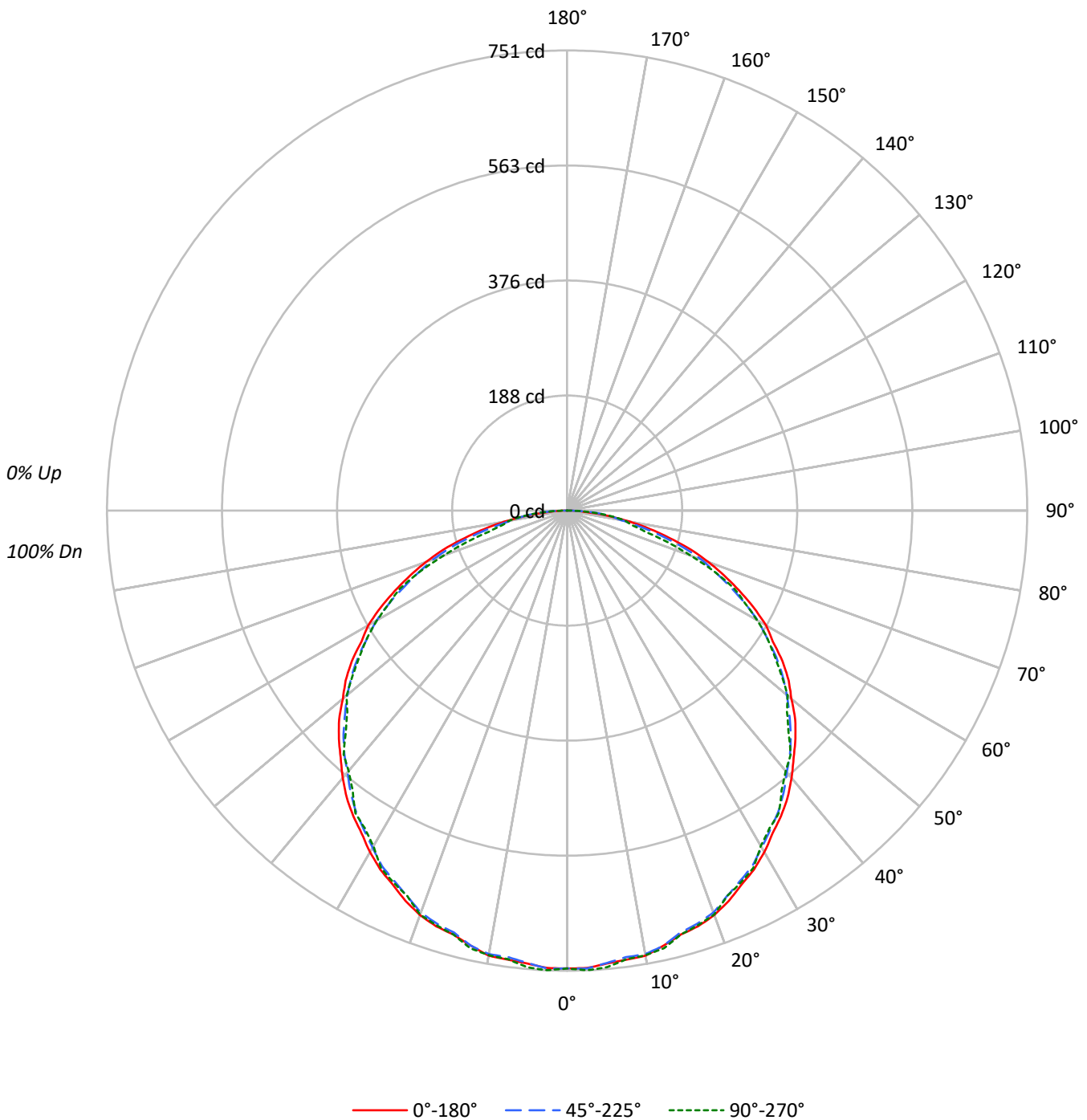
Input Watts (W): 25.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2011	2011	2011
5°	2004	2002	2021
10°	2015	2008	2013
15°	1996	1986	1996
20°	2012	1999	2009
25°	2000	1981	1989
30°	2000	1973	1964
35°	1999	1973	1979
40°	2002	1959	1949
45°	2005	1965	1945
50°	2000	1959	1967
55°	2015	1953	1936
60°	2018	1933	1928
65°	1974	1862	1918
70°	1928	1831	1686
75°	1799	1652	1360
80°	1592	1375	1497
85°	1139	1547	1491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	3.1
10°-20°	203.0	9.0
20°-30°	309.1	13.8
30°-40°	376.3	16.8
40°-50°	399.5	17.8
50°-60°	373.8	16.6
60°-70°	295.6	13.2
70°-80°	167.0	7.4
80°-90°	51.1	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°	582.8	25.9
0°-40°	959.1	42.7
0°-60°	1732.4	77.1
0°-90°	2246.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2246.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	747	747	747	747	747	
5°	742	742	741	745	748	71
15°	716	719	713	720	716	203
25°	674	674	667	668	670	311
35°	608	608	601	596	602	381
45°	527	522	516	515	511	406
55°	429	423	416	413	413	382
65°	310	304	292	296	301	307
75°	173	169	159	140	131	184
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°	747.2	747.2	747.2	747.2	747.2
2.5°	747.2	749.0	748.1	745.5	750.8
5°	742.0	742.0	741.1	744.6	748.1
7.5°	739.3	740.2	735.0	742.0	738.5
10°	737.6	739.3	735.0	734.1	736.7
12.5°	727.1	726.2	727.1	727.1	731.4
15°	716.5	719.1	713.0	720.0	716.5
17.5°	711.2	714.8	706.9	707.7	709.5
20°	702.5	699.0	698.1	695.4	701.6
22.5°	689.3	684.0	681.4	684.9	681.4
25°	673.5	674.4	667.3	668.2	670.0
27.5°	660.3	659.4	654.2	652.4	657.7
30°	643.6	638.4	634.9	635.7	632.2
32.5°	624.3	623.4	617.3	616.4	614.7
35°	608.5	607.6	600.6	596.2	602.4
37.5°	590.9	584.8	580.4	577.8	575.1
40°	569.9	566.4	557.6	555.8	554.9
42.5°	547.0	547.0	538.3	533.0	540.0
45°	526.8	522.5	516.3	514.6	511.0
47.5°	504.9	500.5	491.7	489.1	486.5
50°	477.7	477.7	468.0	464.5	469.8
52.5°	455.7	451.3	443.4	441.7	440.8
55°	429.4	423.2	416.2	412.7	412.7
57.5°	397.8	396.0	386.4	383.7	387.2
60°	374.9	367.9	359.1	356.5	358.3
62.5°	343.3	337.2	327.5	325.8	327.5
65°	310.0	303.8	292.4	295.9	301.2
67.5°	277.5	272.2	261.7	264.3	259.9
70°	245.0	239.7	232.7	223.0	214.3
72.5°	211.6	202.0	197.6	179.1	173.0
75°	173.0	168.6	158.9	140.5	130.8
77.5°	138.7	134.3	122.1	106.2	107.1
80°	102.7	106.2	88.7	94.0	96.6
82.5°	68.5	68.5	72.9	76.4	76.4
85°	36.9	41.3	50.1	50.1	48.3
87.5°	14.0	20.2	22.0	22.0	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)