

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: P392971

Luminaire Tested: **14EN-LD2-18-UNV-L83050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392971
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-49)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-18-UNV-L83050-W2A-1-U (3000K)
Description: 1X4 ENCOUNTER, 1800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1722.3 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

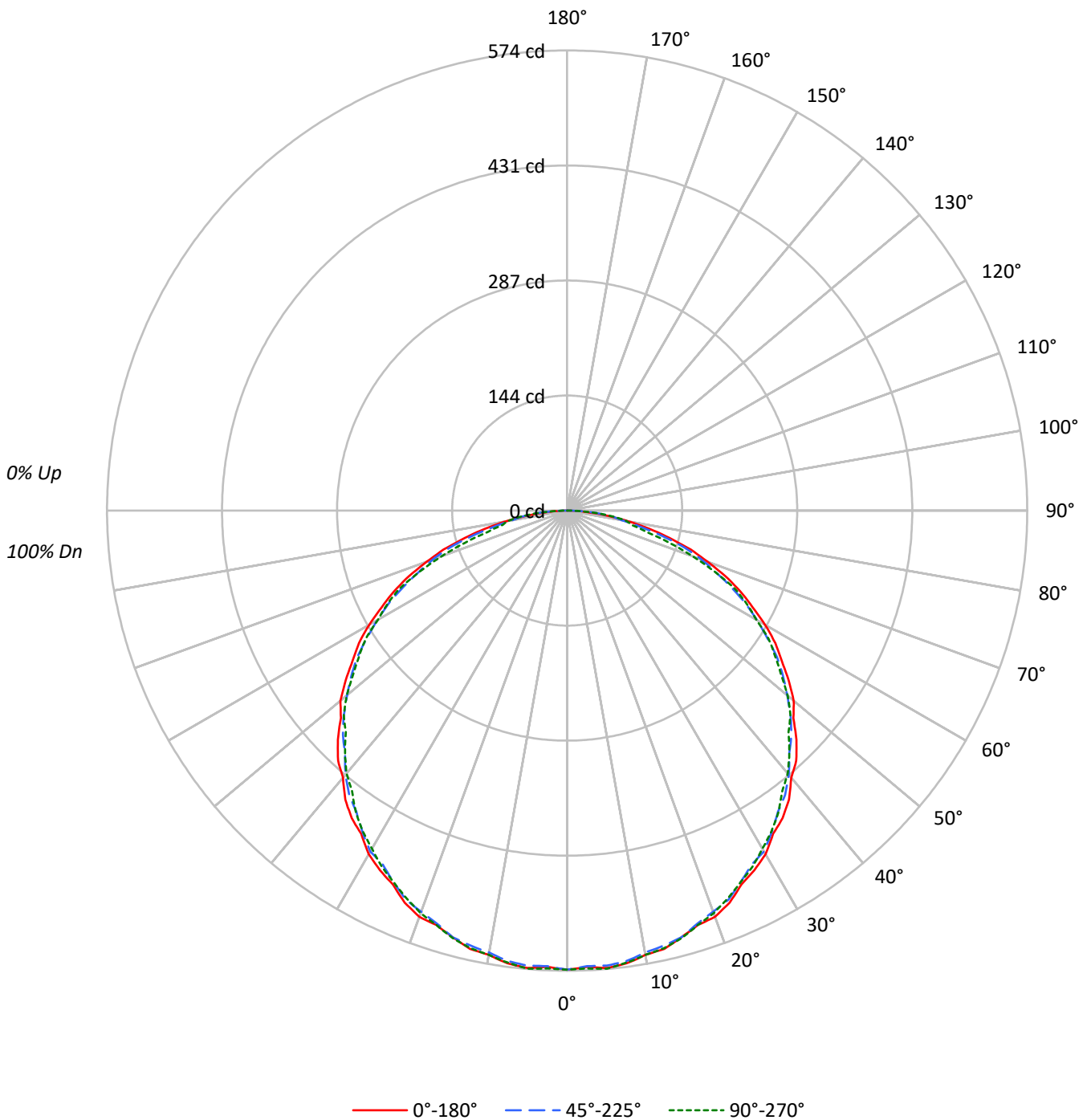
Input Watts (W): 17.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	39	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°	1541	1541	1541
5°	1547	1539	1549
10°	1538	1530	1538
15°	1535	1535	1538
20°	1544	1524	1530
25°	1528	1519	1519
30°	1538	1526	1514
35°	1539	1506	1509
40°	1528	1511	1503
45°	1539	1505	1486
50°	1545	1500	1503
55°	1533	1500	1486
60°	1535	1472	1467
65°	1516	1435	1472
70°	1463	1401	1308
75°	1370	1279	1064
80°	1204	1068	1159
85°	880	1155	1155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.2	3.1
10°-20°	155.6	9.0
20°-30°	236.8	13.7
30°-40°	288.8	16.8
40°-50°	306.3	17.8
50°-60°	286.4	16.6
60°-70°	226.6	13.2
70°-80°	128.6	7.5
80°-90°	39.0	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°	446.6	25.9
0°-40°	735.5	42.7
0°-60°	1328.1	77.1
0°-90°	1722.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1722.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	573	573	573	573	573	
5°	573	571	570	570	574	54
15°	551	550	551	547	552	156
25°	515	516	512	516	512	239
35°	468	465	458	460	460	292
45°	404	400	396	392	391	311
55°	327	325	320	316	317	293
65°	238	234	225	227	231	235
75°	132	129	123	109	102	140
85°	28	32	37	37	37	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	572.7	572.7	572.7	572.7	572.7
2.5°	569.7	574.6	568.7	576.6	571.7
5°	572.7	570.7	569.7	569.7	573.6
7.5°	569.7	566.8	566.8	564.8	568.7
10°	562.8	566.8	559.9	567.7	562.8
12.5°	559.9	556.9	555.9	555.9	558.9
15°	551.0	550.0	551.0	547.1	552.0
17.5°	542.2	547.1	540.2	547.1	542.2
20°	539.2	536.3	532.3	534.3	534.3
22.5°	529.4	523.5	525.4	521.5	523.5
25°	514.6	515.6	511.7	515.6	511.7
27.5°	505.7	504.8	497.9	500.8	500.8
30°	494.9	490.0	491.0	484.1	487.1
32.5°	478.2	478.2	475.2	475.2	474.3
35°	468.4	465.4	458.5	460.5	459.5
37.5°	454.6	447.7	446.7	440.8	440.8
40°	434.9	433.9	430.0	427.0	428.0
42.5°	423.1	419.2	410.3	412.3	410.3
45°	404.4	399.5	395.5	391.6	390.6
47.5°	382.8	382.8	377.8	374.9	377.8
50°	369.0	366.0	358.2	358.2	359.1
52.5°	348.3	344.4	339.5	336.5	336.5
55°	326.7	324.7	319.8	315.8	316.8
57.5°	308.0	304.0	296.2	296.2	298.1
60°	285.3	281.4	273.5	272.6	272.6
62.5°	260.7	258.8	250.9	249.9	252.9
65°	238.1	234.2	225.3	227.3	231.2
67.5°	213.5	207.6	200.7	202.7	198.8
70°	186.0	183.0	178.1	171.2	166.3
72.5°	161.4	156.4	153.5	139.7	133.8
75°	131.8	128.9	123.0	109.2	102.3
77.5°	105.3	103.3	93.5	81.7	82.7
80°	77.7	80.7	68.9	71.8	74.8
82.5°	52.1	53.1	56.1	59.0	59.0
85°	28.5	31.5	37.4	37.4	37.4
87.5°	11.8	14.8	16.7	16.7	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)