

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: P392989

Luminaire Tested: **14EN-LD2-18-UNV-L93050-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392989
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-L93050-W2A-1-U (4000K)
Description: 1X4 ENCOUNTER, 1800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1529.0 lumens
Efficiency: N/A
Efficacy: 89.4 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

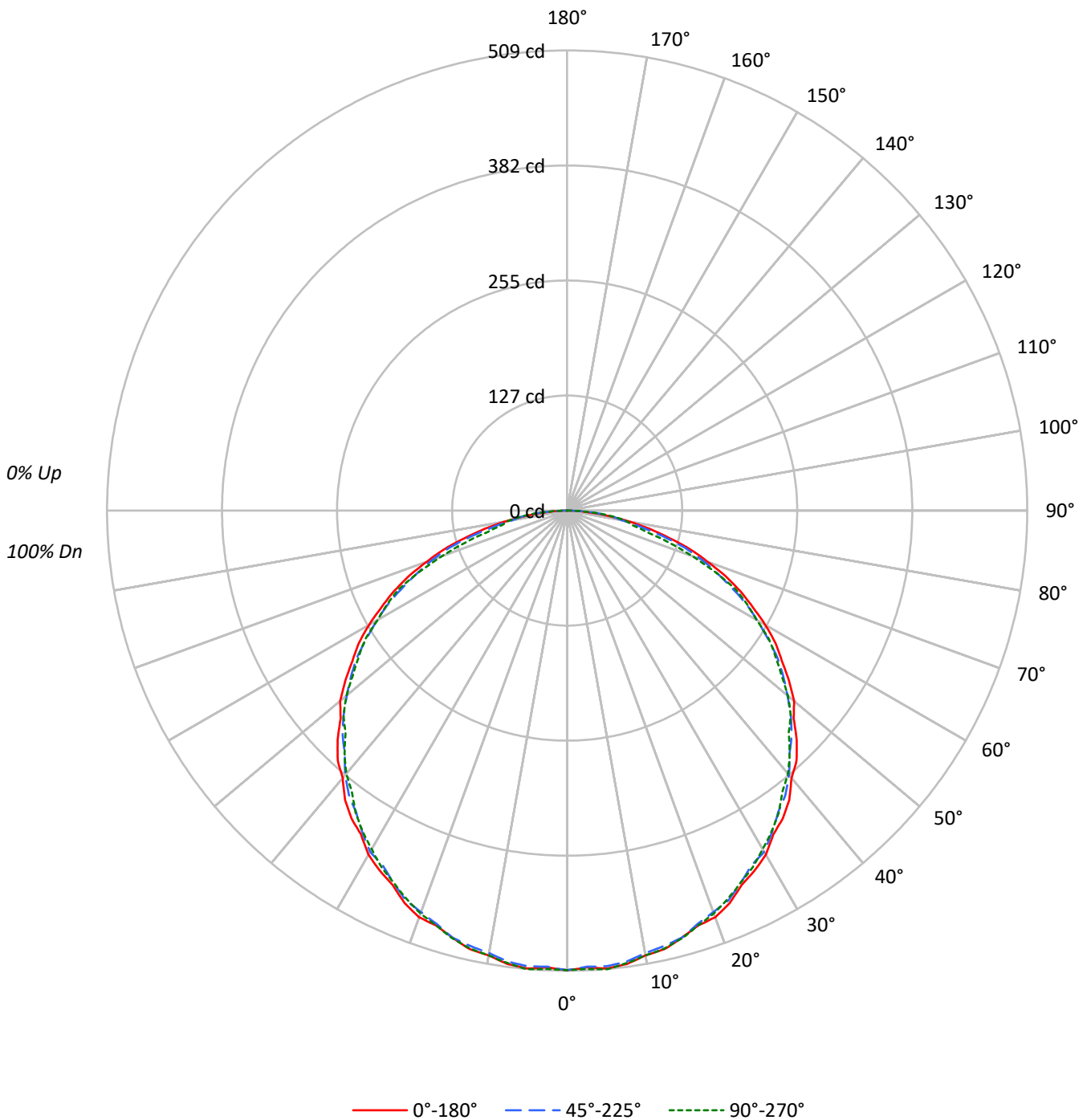
Input Watts (W): 17.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1368	1368	1368
5°	1373	1366	1376
10°	1365	1358	1365
15°	1363	1363	1365
20°	1371	1353	1358
25°	1356	1349	1349
30°	1365	1354	1344
35°	1366	1337	1340
40°	1356	1341	1335
45°	1366	1337	1320
50°	1371	1331	1335
55°	1361	1332	1320
60°	1363	1307	1302
65°	1346	1273	1307
70°	1299	1244	1161
75°	1218	1135	944
80°	1069	947	1029
85°	781	1025	1025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.1	3.1
10°-20°	138.1	9.0
20°-30°	210.2	13.7
30°-40°	256.4	16.8
40°-50°	271.9	17.8
50°-60°	254.3	16.6
60°-70°	201.2	13.2
70°-80°	114.2	7.5
80°-90°	34.7	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°	396.5	25.9
0°-40°	652.9	42.7
0°-60°	1179.1	77.1
0°-90°	1529.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1529.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	508	508	508	508	508	
5°	508	507	506	506	509	48
15°	489	488	489	486	490	138
25°	457	458	454	458	454	212
35°	416	413	407	409	408	260
45°	359	355	351	348	347	276
55°	290	288	284	280	281	260
65°	211	208	200	202	205	208
75°	117	114	109	97	91	124
85°	25	28	33	33	33	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	508.4	508.4	508.4	508.4	508.4
2.5°	505.8	510.1	504.9	511.9	507.5
5°	508.4	506.6	505.8	505.8	509.3
7.5°	505.8	503.1	503.1	501.4	504.9
10°	499.6	503.1	497.0	504.0	499.6
12.5°	497.0	494.4	493.5	493.5	496.2
15°	489.2	488.3	489.2	485.7	490.0
17.5°	481.3	485.7	479.6	485.7	481.3
20°	478.7	476.1	472.6	474.3	474.3
22.5°	469.9	464.7	466.5	463.0	464.7
25°	456.8	457.7	454.2	457.7	454.2
27.5°	449.0	448.1	442.0	444.6	444.6
30°	439.4	435.0	435.9	429.8	432.4
32.5°	424.5	424.5	421.9	421.9	421.0
35°	415.8	413.2	407.1	408.8	407.9
37.5°	403.6	397.4	396.6	391.3	391.3
40°	386.1	385.2	381.7	379.1	380.0
42.5°	375.6	372.1	364.3	366.0	364.3
45°	359.0	354.6	351.2	347.7	346.8
47.5°	339.8	339.8	335.4	332.8	335.4
50°	327.6	324.9	318.0	318.0	318.8
52.5°	309.2	305.7	301.4	298.7	298.7
55°	290.0	288.3	283.9	280.4	281.3
57.5°	273.4	269.9	262.9	262.9	264.7
60°	253.3	249.8	242.8	242.0	242.0
62.5°	231.5	229.7	222.7	221.9	224.5
65°	211.4	207.9	200.0	201.8	205.3
67.5°	189.6	184.3	178.2	179.9	176.4
70°	165.1	162.5	158.1	152.0	147.6
72.5°	143.3	138.9	136.3	124.0	118.8
75°	117.1	114.4	109.2	97.0	90.8
77.5°	93.5	91.7	83.0	72.5	73.4
80°	69.0	71.6	61.1	63.8	66.4
82.5°	46.3	47.2	49.8	52.4	52.4
85°	25.3	28.0	33.2	33.2	33.2
87.5°	10.5	13.1	14.8	14.8	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)