

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: P392991

Luminaire Tested: **14EN-LD2-18-UNV-L93050-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392991
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 (5000K)
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: 1544.2 lumens
Efficiency: N/A
Efficacy: 90.8 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

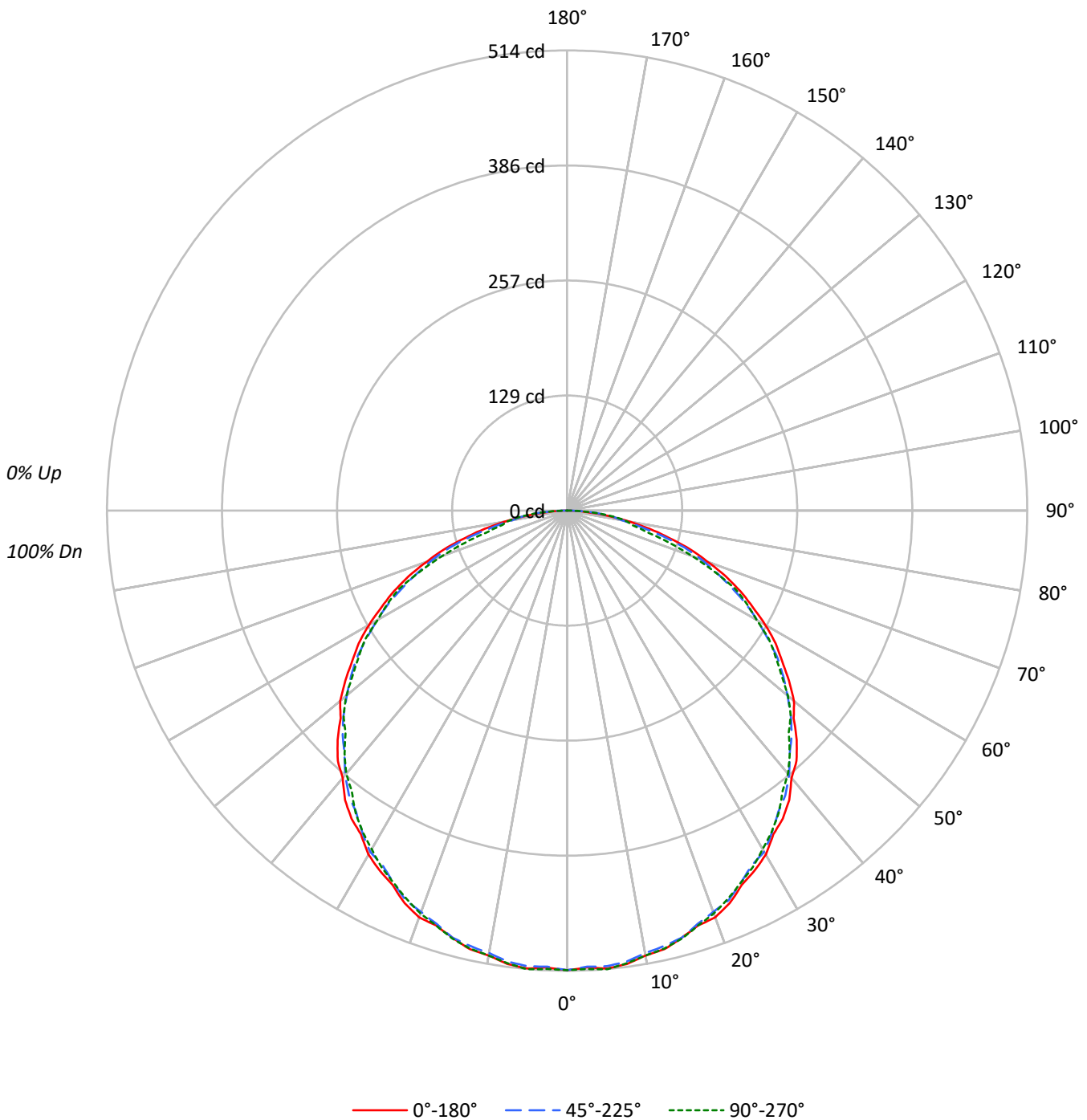
Input Watts (W): 17
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1382	1382	1382
5°	1387	1380	1389
10°	1379	1371	1379
15°	1376	1376	1379
20°	1384	1367	1372
25°	1370	1362	1362
30°	1379	1368	1357
35°	1379	1350	1353
40°	1370	1354	1348
45°	1380	1349	1333
50°	1385	1344	1348
55°	1374	1345	1333
60°	1377	1320	1315
65°	1359	1286	1320
70°	1312	1257	1173
75°	1229	1147	953
80°	1080	958	1038
85°	790	1034	1034



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.6	3.1
10°-20°	139.5	9.0
20°-30°	212.3	13.7
30°-40°	259.0	16.8
40°-50°	274.6	17.8
50°-60°	256.8	16.6
60°-70°	203.2	13.2
70°-80°	115.3	7.5
80°-90°	35.0	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°	400.4	25.9
0°-40°	659.4	42.7
0°-60°	1190.7	77.1
0°-90°	1544.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1544.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	513	513	513	513	513	
5°	513	512	511	511	514	49
15°	494	493	494	490	495	140
25°	461	462	459	462	459	214
35°	420	417	411	413	412	262
45°	363	358	355	351	350	279
55°	293	291	287	283	284	263
65°	214	210	202	204	207	210
75°	118	116	110	98	92	125
85°	26	28	34	34	34	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	513.4	513.4	513.4	513.4	513.4
2.5°	510.8	515.2	509.9	516.9	512.5
5°	513.4	511.6	510.8	510.8	514.3
7.5°	510.8	508.1	508.1	506.4	509.9
10°	504.6	508.1	501.9	509.0	504.6
12.5°	501.9	499.3	498.4	498.4	501.1
15°	494.0	493.1	494.0	490.5	494.9
17.5°	486.1	490.5	484.3	490.5	486.1
20°	483.4	480.8	477.2	479.0	479.0
22.5°	474.6	469.3	471.1	467.5	469.3
25°	461.4	462.2	458.7	462.2	458.7
27.5°	453.4	452.5	446.4	449.0	449.0
30°	443.7	439.3	440.2	434.0	436.7
32.5°	428.7	428.7	426.1	426.1	425.2
35°	419.9	417.3	411.1	412.8	412.0
37.5°	407.6	401.4	400.5	395.2	395.2
40°	389.9	389.0	385.5	382.9	383.7
42.5°	379.3	375.8	367.9	369.6	367.9
45°	362.6	358.2	354.6	351.1	350.2
47.5°	343.2	343.2	338.7	336.1	338.7
50°	330.8	328.2	321.1	321.1	322.0
52.5°	312.3	308.8	304.3	301.7	301.7
55°	292.9	291.1	286.7	283.2	284.1
57.5°	276.1	272.6	265.5	265.5	267.3
60°	255.8	252.3	245.2	244.4	244.4
62.5°	233.8	232.0	224.9	224.1	226.7
65°	213.5	210.0	202.0	203.8	207.3
67.5°	191.4	186.1	180.0	181.7	178.2
70°	166.7	164.1	159.7	153.5	149.1
72.5°	144.7	140.3	137.6	125.3	120.0
75°	118.2	115.6	110.3	97.9	91.7
77.5°	94.4	92.6	83.8	73.2	74.1
80°	69.7	72.3	61.8	64.4	67.0
82.5°	46.8	47.6	50.3	52.9	52.9
85°	25.6	28.2	33.5	33.5	33.5
87.5°	10.6	13.2	15.0	15.0	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)