

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: P392983

Luminaire Tested: **14EN-LD2-18-UNV-L92765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392983
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-L92765-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: 1475.4 lumens
Efficiency: N/A
Efficacy: 85.3 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

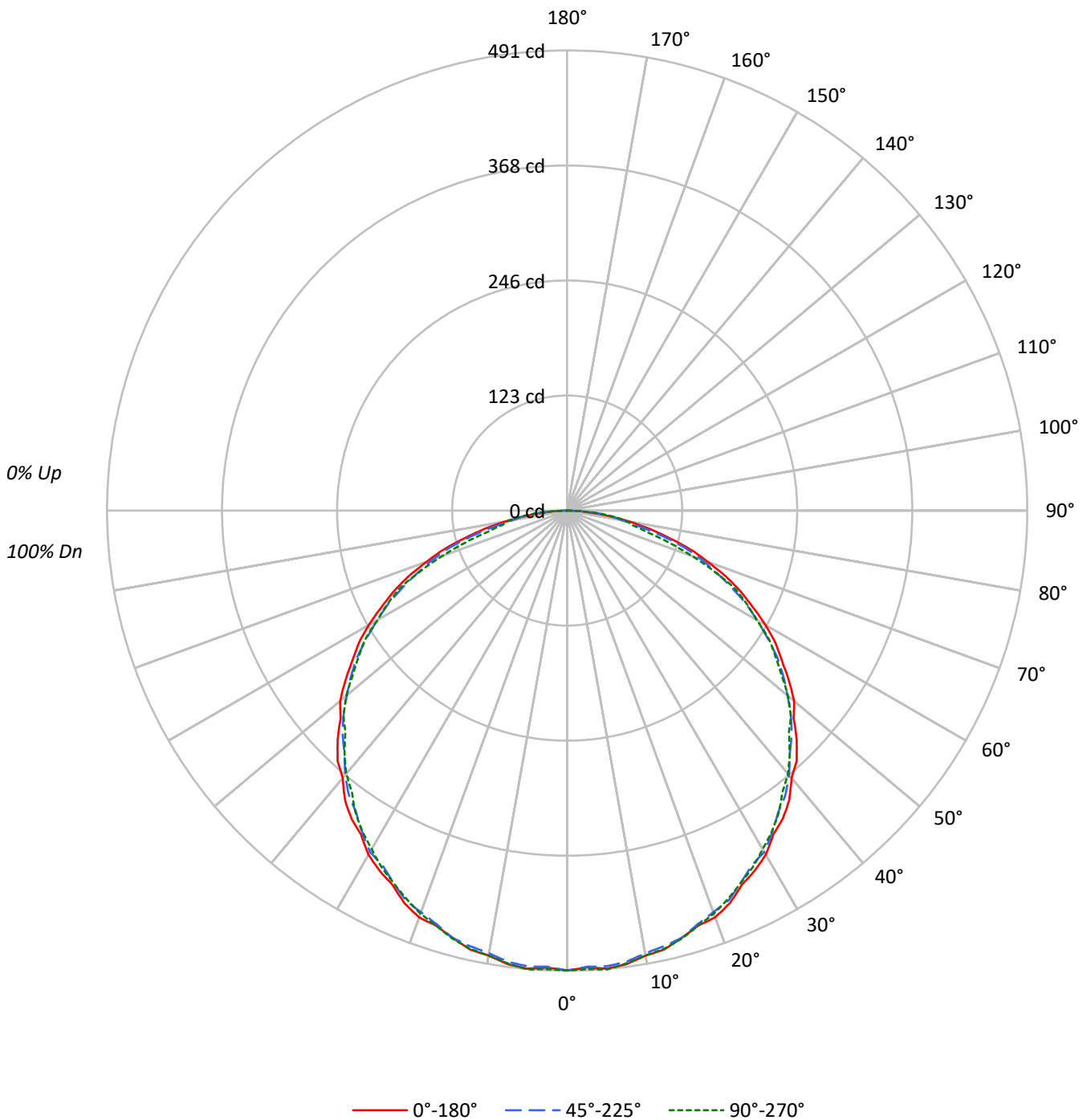
Input Watts (W): 17.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1320	1320	1320
5°	1325	1318	1327
10°	1317	1311	1317
15°	1315	1315	1317
20°	1323	1306	1311
25°	1309	1301	1301
30°	1317	1307	1296
35°	1318	1290	1293
40°	1309	1294	1288
45°	1318	1289	1273
50°	1323	1284	1288
55°	1313	1285	1273
60°	1315	1261	1257
65°	1299	1229	1261
70°	1253	1201	1121
75°	1174	1096	912
80°	1032	914	993
85°	753	988	988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.5	3.1
10°-20°	133.3	9.0
20°-30°	202.9	13.7
30°-40°	247.4	16.8
40°-50°	262.4	17.8
50°-60°	245.4	16.6
60°-70°	194.1	13.2
70°-80°	110.2	7.5
80°-90°	33.4	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°	382.6	25.9
0°-40°	630.0	42.7
0°-60°	1137.7	77.1
0°-90°	1475.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1475.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	491	491	491	491	491	
5°	491	489	488	488	491	47
15°	472	471	472	469	473	133
25°	441	442	438	442	438	204
35°	401	399	393	394	394	250
45°	346	342	339	336	335	267
55°	280	278	274	271	271	251
65°	204	201	193	195	198	201
75°	113	110	105	94	88	120
85°	24	27	32	32	32	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	490.6	490.6	490.6	490.6	490.6
2.5°	488.0	492.3	487.2	493.9	489.7
5°	490.6	488.9	488.0	488.0	491.4
7.5°	488.0	485.5	485.5	483.8	487.2
10°	482.1	485.5	479.6	486.4	482.1
12.5°	479.6	477.1	476.2	476.2	478.8
15°	472.0	471.2	472.0	468.7	472.9
17.5°	464.4	468.7	462.8	468.7	464.4
20°	461.9	459.4	456.0	457.7	457.7
22.5°	453.5	448.4	450.1	446.7	448.4
25°	440.8	441.7	438.3	441.7	438.3
27.5°	433.3	432.4	426.5	429.0	429.0
30°	424.0	419.8	420.6	414.7	417.2
32.5°	409.6	409.6	407.1	407.1	406.3
35°	401.2	398.7	392.8	394.5	393.6
37.5°	389.4	383.5	382.7	377.6	377.6
40°	372.6	371.7	368.3	365.8	366.7
42.5°	362.4	359.1	351.5	353.2	351.5
45°	346.4	342.2	338.8	335.5	334.6
47.5°	327.9	327.9	323.7	321.1	323.7
50°	316.1	313.6	306.8	306.8	307.7
52.5°	298.4	295.0	290.8	288.3	288.3
55°	279.8	278.2	273.9	270.6	271.4
57.5°	263.8	260.5	253.7	253.7	255.4
60°	244.4	241.1	234.3	233.5	233.5
62.5°	223.4	221.7	214.9	214.1	216.6
65°	204.0	200.6	193.0	194.7	198.1
67.5°	182.9	177.9	172.0	173.6	170.3
70°	159.3	156.8	152.6	146.7	142.5
72.5°	138.2	134.0	131.5	119.7	114.6
75°	112.9	110.4	105.4	93.6	87.7
77.5°	90.2	88.5	80.1	70.0	70.8
80°	66.6	69.1	59.0	61.5	64.1
82.5°	44.7	45.5	48.0	50.6	50.6
85°	24.4	27.0	32.0	32.0	32.0
87.5°	10.1	12.6	14.3	14.3	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)