

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: P392985

Luminaire Tested: **14EN-LD2-18-UNV-L92765-W2A-1-U (6500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392985
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 (6500K)
Description: 1X4 ENCOUNTER, 1800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1511.4 lumens
Efficiency: N/A
Efficacy: 87.9 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

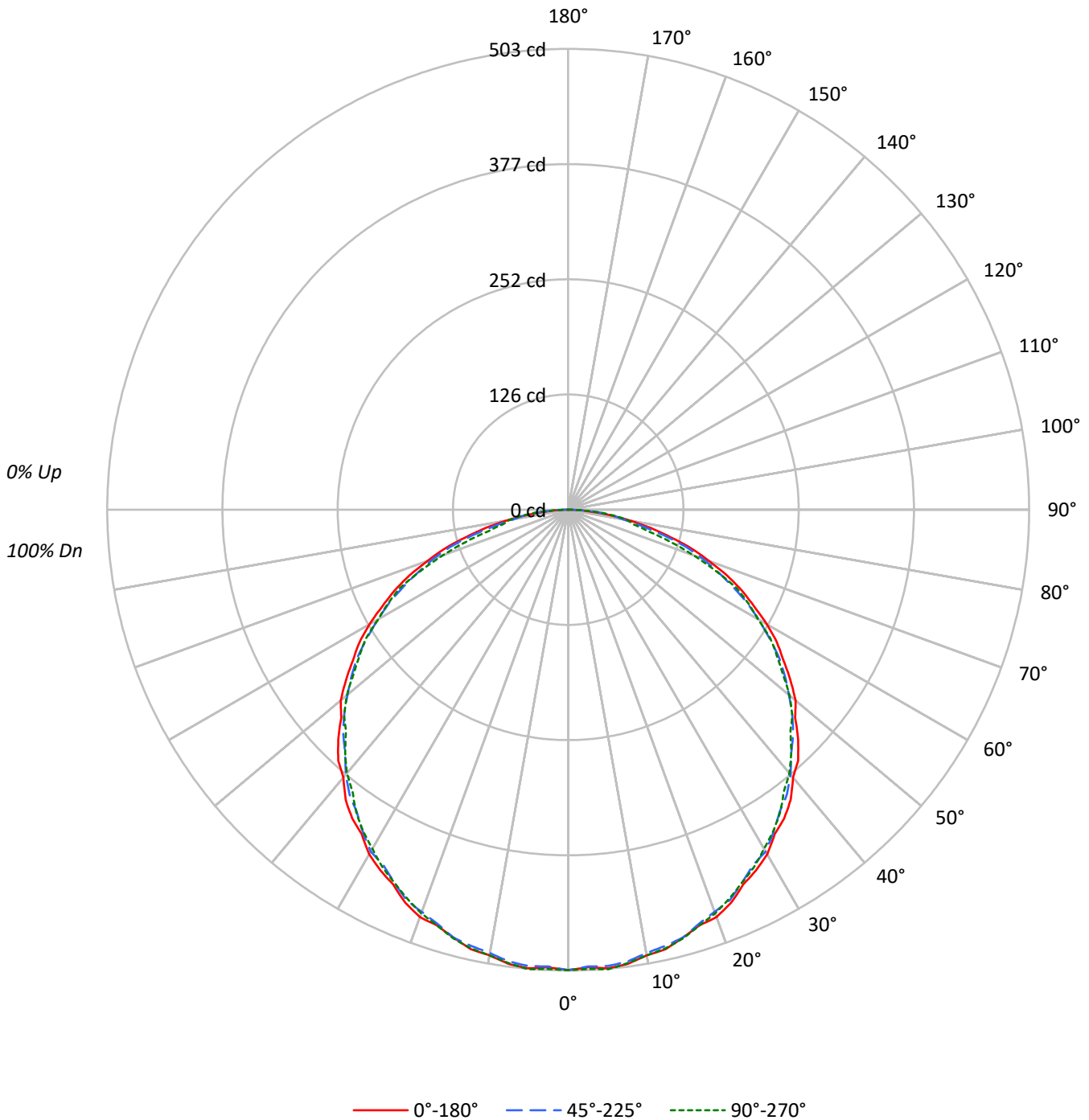
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P392985

CATALOG NUMBER: 14EN-LD2-18-UNV-L92765-W2A-1-U (6500K)

Luminous Intensity Polar Plot





TEST NUMBER: P392985

CATALOG NUMBER: 14EN-LD2-18-UNV-L92765-W2A-1-U (6500K)

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°	1352	1352	1352
5°	1357	1350	1360
10°	1350	1342	1350
15°	1347	1347	1349
20°	1355	1338	1342
25°	1341	1333	1333
30°	1349	1339	1328
35°	1350	1322	1325
40°	1340	1325	1319
45°	1351	1321	1305
50°	1356	1316	1320
55°	1345	1316	1304
60°	1348	1292	1287
65°	1331	1259	1292
70°	1284	1230	1148
75°	1203	1122	934
80°	1057	936	1017
85°	772	1013	1013



TEST NUMBER: P392985

CATALOG NUMBER: 14EN-LD2-18-UNV-L92765-W2A-1-U (6500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.6	3.1
10°-20°	136.5	9.0
20°-30°	207.8	13.7
30°-40°	253.5	16.8
40°-50°	268.8	17.8
50°-60°	251.3	16.6
60°-70°	198.8	13.2
70°-80°	112.8	7.5
80°-90°	34.2	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°	391.9	25.9
0°-40°	645.4	42.7
0°-60°	1165.5	77.1
0°-90°	1511.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1511.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	502	502	502	502	502	
5°	502	501	500	500	503	48
15°	484	483	484	480	484	137
25°	452	452	449	452	449	209
35°	411	408	402	404	403	257
45°	355	351	347	344	343	273
55°	287	285	281	277	278	257
65°	209	206	198	200	203	206
75°	116	113	108	96	90	123
85°	25	28	33	33	33	31
90°	0	0	0	0	0	



TEST NUMBER: P392985

CATALOG NUMBER: 14EN-LD2-18-UNV-L92765-W2A-1-U (6500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	502.5	502.5	502.5	502.5	502.5
2.5°	499.9	504.2	499.1	506.0	501.7
5°	502.5	500.8	499.9	499.9	503.4
7.5°	499.9	497.3	497.3	495.6	499.1
10°	493.9	497.3	491.3	498.2	493.9
12.5°	491.3	488.7	487.8	487.8	490.4
15°	483.5	482.7	483.5	480.1	484.4
17.5°	475.8	480.1	474.0	480.1	475.8
20°	473.2	470.6	467.1	468.8	468.8
22.5°	464.5	459.3	461.1	457.6	459.3
25°	451.6	452.4	449.0	452.4	449.0
27.5°	443.8	442.9	436.9	439.5	439.5
30°	434.3	430.0	430.9	424.8	427.4
32.5°	419.6	419.6	417.0	417.0	416.2
35°	411.0	408.4	402.4	404.1	403.2
37.5°	398.9	392.9	392.0	386.8	386.8
40°	381.6	380.8	377.3	374.7	375.6
42.5°	371.3	367.8	360.1	361.8	360.1
45°	354.9	350.6	347.1	343.6	342.8
47.5°	335.9	335.9	331.6	329.0	331.6
50°	323.8	321.2	314.3	314.3	315.2
52.5°	305.7	302.2	297.9	295.3	295.3
55°	286.7	284.9	280.6	277.2	278.0
57.5°	270.3	266.8	259.9	259.9	261.6
60°	250.4	246.9	240.0	239.2	239.2
62.5°	228.8	227.1	220.2	219.3	221.9
65°	209.0	205.5	197.7	199.5	202.9
67.5°	187.4	182.2	176.1	177.9	174.4
70°	163.2	160.6	156.3	150.2	145.9
72.5°	141.6	137.3	134.7	122.6	117.4
75°	115.7	113.1	107.9	95.8	89.8
77.5°	92.4	90.7	82.0	71.7	72.5
80°	68.2	70.8	60.4	63.0	65.6
82.5°	45.8	46.6	49.2	51.8	51.8
85°	25.0	27.6	32.8	32.8	32.8
87.5°	10.4	13.0	14.7	14.7	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)