

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: P393076

Luminaire Tested: **14EN-LD2-33-UNV-L92765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393076
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-52)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-33-UNV-L92765-W2A-1-U (3500K)
Description: 1X4 ENCOUNTER, 3300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2617.4 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

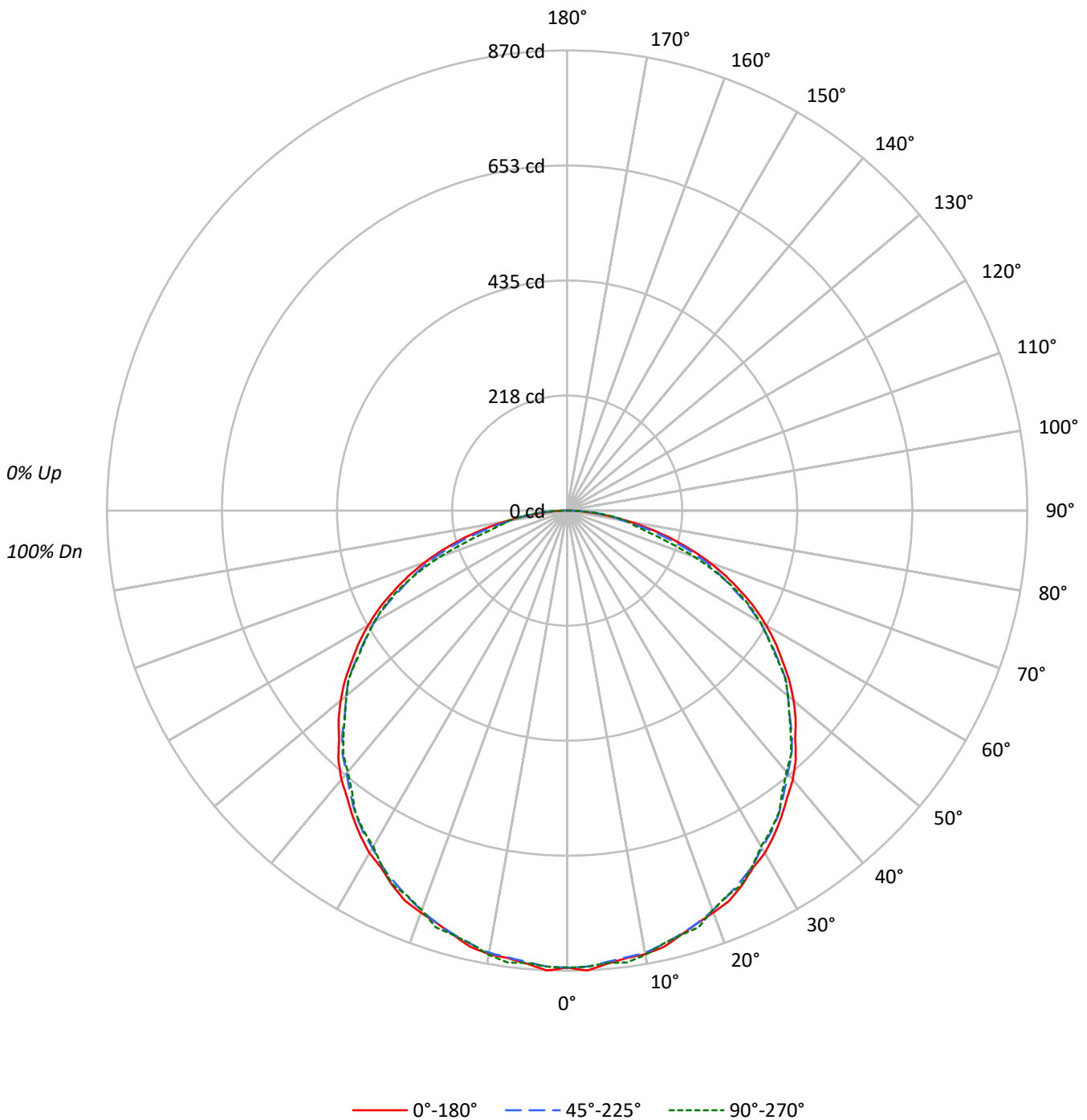
Input Watts (W): 31
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393076

CATALOG NUMBER: 14EN-LD2-33-UNV-L92765-W2A-1-U (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P393076

CATALOG NUMBER: 14EN-LD2-33-UNV-L92765-W2A-1-U (3500K)

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	95	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	60	68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
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°	2325	2325	2325
5°	2323	2315	2319
10°	2326	2320	2331
15°	2315	2310	2315
20°	2316	2304	2302
25°	2321	2300	2316
30°	2323	2289	2279
35°	2321	2295	2292
40°	2331	2278	2265
45°	2321	2288	2275
50°	2341	2281	2281
55°	2333	2274	2263
60°	2340	2263	2267
65°	2309	2188	2224
70°	2256	2162	2019
75°	2116	1968	1647
80°	1853	1644	1754
85°	1368	1760	1760



TEST NUMBER: P393076

CATALOG NUMBER: 14EN-LD2-33-UNV-L92765-W2A-1-U (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.8	3.1
10°-20°	234.8	9.0
20°-30°	358.0	13.7
30°-40°	437.2	16.7
40°-50°	465.2	17.8
50°-60°	436.7	16.7
60°-70°	347.0	13.3
70°-80°	197.3	7.5
80°-90°	59.5	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°	674.6	25.8
0°-40°	1111.7	42.5
0°-60°	2013.6	76.9
0°-90°	2617.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2617.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	864	864	864	864	864	
5°	860	860	857	862	858	82
15°	831	834	829	832	831	235
25°	782	780	774	775	780	360
35°	706	702	698	695	698	442
45°	610	609	601	600	598	473
55°	497	494	485	484	482	446
65°	363	357	344	349	349	359
75°	204	198	189	166	158	214
85°	44	48	57	55	57	55
90°	0	0	0	0	0	



TEST NUMBER: P393076

CATALOG NUMBER: 14EN-LD2-33-UNV-L92765-W2A-1-U (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	864.0	864.0	864.0	864.0	864.0
2.5°	870.4	864.0	863.2	864.0	863.2
5°	860.1	860.1	856.9	861.6	858.5
7.5°	853.7	856.9	852.1	856.9	861.6
10°	851.4	850.6	849.0	848.2	852.9
12.5°	845.0	841.1	839.5	841.8	838.7
15°	830.8	833.9	829.2	832.3	830.8
17.5°	818.1	822.0	818.1	819.7	826.0
20°	808.6	809.4	804.6	805.4	803.8
22.5°	799.1	792.7	789.6	790.4	788.8
25°	781.7	780.1	774.5	775.3	780.1
27.5°	761.1	762.7	757.9	757.1	757.9
30°	747.6	743.6	736.5	737.3	733.3
32.5°	727.8	723.1	719.1	715.1	716.7
35°	706.4	702.5	698.5	695.3	697.7
37.5°	683.5	681.1	673.2	672.4	668.4
40°	663.7	656.5	648.6	646.2	644.7
42.5°	639.9	635.9	628.0	624.1	626.4
45°	609.8	609.0	601.1	599.5	597.9
47.5°	586.0	580.5	570.2	571.0	569.4
50°	559.1	554.4	544.9	541.7	544.9
52.5°	529.8	527.4	520.3	517.1	519.5
55°	497.3	494.2	484.7	483.9	482.3
57.5°	467.3	462.5	452.2	449.0	450.6
60°	434.8	430.0	420.5	415.8	421.3
62.5°	400.7	394.4	384.1	384.9	388.1
65°	362.7	357.2	343.7	349.3	349.3
67.5°	325.5	319.9	308.9	308.9	304.1
70°	286.7	279.6	274.8	263.7	256.6
72.5°	245.5	238.4	232.8	213.8	203.5
75°	203.5	198.0	189.3	166.3	158.4
77.5°	160.0	158.4	144.9	127.5	129.9
80°	119.6	122.0	106.1	112.5	113.2
82.5°	81.6	81.6	83.9	88.7	88.7
85°	44.3	48.3	57.0	55.4	57.0
87.5°	16.6	23.8	26.1	24.6	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)