

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: P393077

Luminaire Tested: **14EN-LD2-33-UNV-L92765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393077
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 (4000K)
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: 2733.3 lumens
Efficiency: N/A
Efficacy: 87.9 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

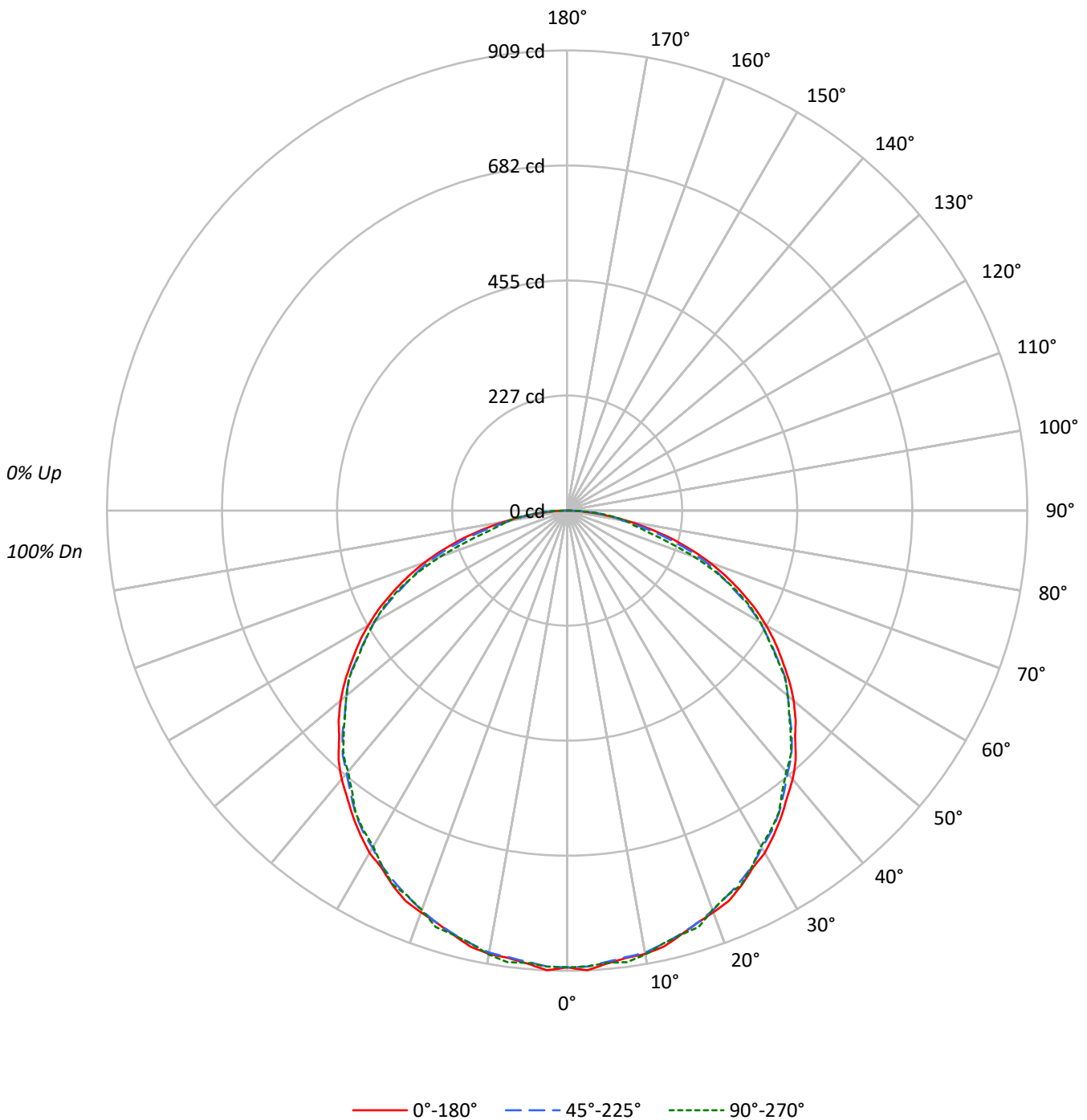
Input Watts (W): 31.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2428	2428	2428
5°	2426	2417	2422
10°	2429	2423	2434
15°	2417	2412	2417
20°	2418	2406	2404
25°	2424	2401	2419
30°	2426	2390	2380
35°	2423	2396	2394
40°	2435	2379	2365
45°	2423	2389	2376
50°	2444	2382	2382
55°	2437	2374	2363
60°	2443	2364	2368
65°	2412	2285	2322
70°	2356	2258	2109
75°	2209	2056	1720
80°	1936	1717	1833
85°	1430	1837	1837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.4	3.1
10°-20°	245.2	9.0
20°-30°	373.9	13.7
30°-40°	456.5	16.7
40°-50°	485.8	17.8
50°-60°	456.1	16.7
60°-70°	362.3	13.3
70°-80°	206.0	7.5
80°-90°	62.1	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°	704.4	25.8
0°-40°	1161.0	42.5
0°-60°	2102.8	76.9
0°-90°	2733.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2733.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	902	902	902	902	902	
5°	898	898	895	900	896	85
15°	868	871	866	869	868	245
25°	816	815	809	810	815	376
35°	738	734	729	726	729	462
45°	637	636	628	626	624	494
55°	519	516	506	505	504	465
65°	379	373	359	365	365	375
75°	212	207	198	174	165	224
85°	46	50	60	58	60	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	902.3	902.3	902.3	902.3	902.3
2.5°	908.9	902.3	901.5	902.3	901.5
5°	898.2	898.2	894.9	899.8	896.5
7.5°	891.5	894.9	889.9	894.9	899.8
10°	889.1	888.2	886.6	885.8	890.7
12.5°	882.4	878.3	876.7	879.1	875.8
15°	867.6	870.9	865.9	869.2	867.6
17.5°	854.3	858.5	854.3	856.0	862.6
20°	844.4	845.2	840.3	841.1	839.4
22.5°	834.5	827.9	824.6	825.4	823.7
25°	816.3	814.6	808.8	809.7	814.6
27.5°	794.8	796.4	791.5	790.6	791.5
30°	780.7	776.6	769.1	770.0	765.8
32.5°	760.0	755.1	751.0	746.8	748.5
35°	737.7	733.6	729.4	726.1	728.6
37.5°	713.7	711.3	703.0	702.2	698.0
40°	693.1	685.6	677.3	674.9	673.2
42.5°	668.2	664.1	655.8	651.7	654.2
45°	636.8	636.0	627.7	626.1	624.4
47.5°	612.0	606.2	595.5	596.3	594.6
50°	583.9	578.9	569.0	565.7	569.0
52.5°	553.3	550.8	543.4	540.1	542.5
55°	519.4	516.1	506.1	505.3	503.7
57.5°	488.0	483.0	472.2	468.9	470.6
60°	454.0	449.1	439.2	434.2	440.0
62.5°	418.5	411.9	401.1	401.9	405.2
65°	378.8	373.0	358.9	364.7	364.7
67.5°	339.9	334.1	322.5	322.5	317.6
70°	299.4	291.9	287.0	275.4	268.0
72.5°	256.4	248.9	243.1	223.3	212.5
75°	212.5	206.8	197.7	173.7	165.4
77.5°	167.1	165.4	151.3	133.2	135.6
80°	124.9	127.4	110.8	117.4	118.3
82.5°	85.2	85.2	87.7	92.6	92.6
85°	46.3	50.4	59.5	57.9	59.5
87.5°	17.4	24.8	27.3	25.6	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)