

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: P393083

Luminaire Tested: **14EN-LD2-33-UNV-L93050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393083
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-L93050-W2A-1-U (3000K)
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: 2715.8 lumens
Efficiency: N/A
Efficacy: 87.0 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

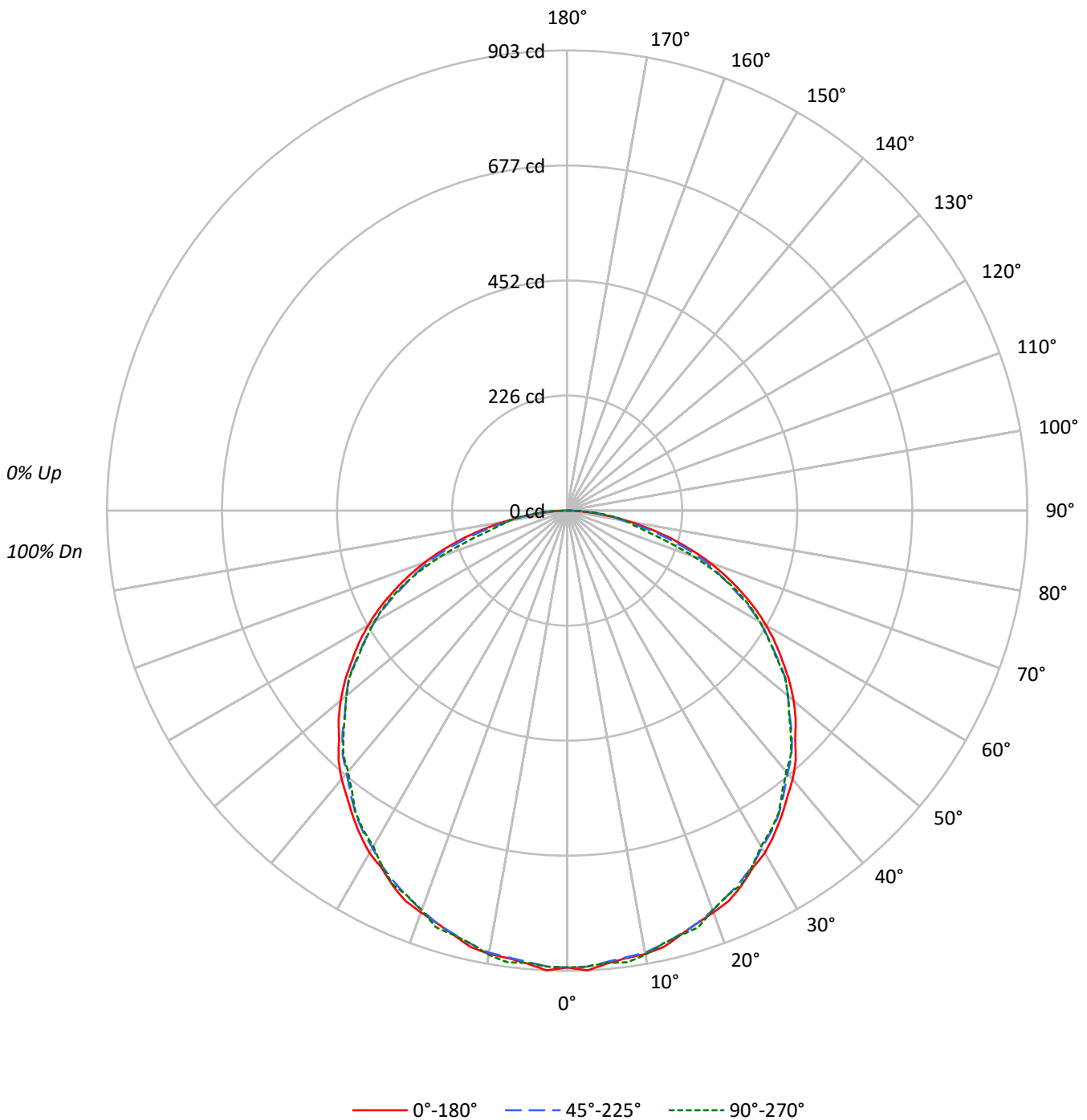
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2412	2412	2412
5°	2411	2402	2406
10°	2414	2407	2418
15°	2401	2397	2401
20°	2403	2391	2389
25°	2408	2386	2403
30°	2410	2375	2364
35°	2408	2381	2378
40°	2419	2364	2350
45°	2408	2374	2361
50°	2429	2367	2367
55°	2421	2359	2348
60°	2428	2348	2353
65°	2397	2271	2308
70°	2341	2243	2094
75°	2196	2042	1708
80°	1923	1706	1821
85°	1420	1828	1828



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	3.1
10°-20°	243.6	9.0
20°-30°	371.5	13.7
30°-40°	453.6	16.7
40°-50°	482.7	17.8
50°-60°	453.2	16.7
60°-70°	360.0	13.3
70°-80°	204.7	7.5
80°-90°	61.7	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°	699.9	25.8
0°-40°	1153.5	42.5
0°-60°	2089.4	76.9
0°-90°	2715.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2715.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	896	896	896	896	896	
5°	892	892	889	894	891	85
15°	862	865	860	864	862	244
25°	811	809	804	804	809	374
35°	733	729	725	722	724	459
45°	633	632	624	622	620	490
55°	516	513	503	502	500	462
65°	376	371	357	362	362	372
75°	211	205	196	173	164	222
85°	46	50	59	58	59	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	896.5	896.5	896.5	896.5	896.5
2.5°	903.1	896.5	895.7	896.5	895.7
5°	892.4	892.4	889.1	894.1	890.8
7.5°	885.8	889.1	884.2	889.1	894.1
10°	883.4	882.6	880.9	880.1	885.0
12.5°	876.8	872.7	871.0	873.5	870.2
15°	862.0	865.3	860.4	863.7	862.0
17.5°	848.9	853.0	848.9	850.5	857.1
20°	839.0	839.8	834.9	835.7	834.1
22.5°	829.1	822.6	819.3	820.1	818.5
25°	811.1	809.4	803.7	804.5	809.4
27.5°	789.7	791.3	786.4	785.6	786.4
30°	775.7	771.6	764.2	765.0	760.9
32.5°	755.2	750.3	746.1	742.0	743.7
35°	733.0	728.9	724.8	721.5	724.0
37.5°	709.2	706.7	698.5	697.7	693.6
40°	688.6	681.2	673.0	670.5	668.9
42.5°	664.0	659.9	651.6	647.5	650.0
45°	632.7	631.9	623.7	622.1	620.4
47.5°	608.1	602.3	591.7	592.5	590.8
50°	580.2	575.2	565.4	562.1	565.4
52.5°	549.7	547.3	539.9	536.6	539.1
55°	516.1	512.8	502.9	502.1	500.4
57.5°	484.8	479.9	469.2	465.9	467.6
60°	451.1	446.2	436.3	431.4	437.2
62.5°	415.8	409.2	398.5	399.4	402.7
65°	376.4	370.6	356.6	362.4	362.4
67.5°	337.7	332.0	320.5	320.5	315.5
70°	297.5	290.1	285.1	273.6	266.2
72.5°	254.7	247.3	241.6	221.9	211.2
75°	211.2	205.4	196.4	172.6	164.3
77.5°	166.0	164.3	150.4	132.3	134.8
80°	124.1	126.5	110.1	116.7	117.5
82.5°	84.6	84.6	87.1	92.0	92.0
85°	46.0	50.1	59.2	57.5	59.2
87.5°	17.3	24.7	27.1	25.5	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)