

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: P393078

Luminaire Tested: **14EN-LD2-33-UNV-L92765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393078
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 (4500K)
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: 2715.0 lumens
Efficiency: N/A
Efficacy: 87.3 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

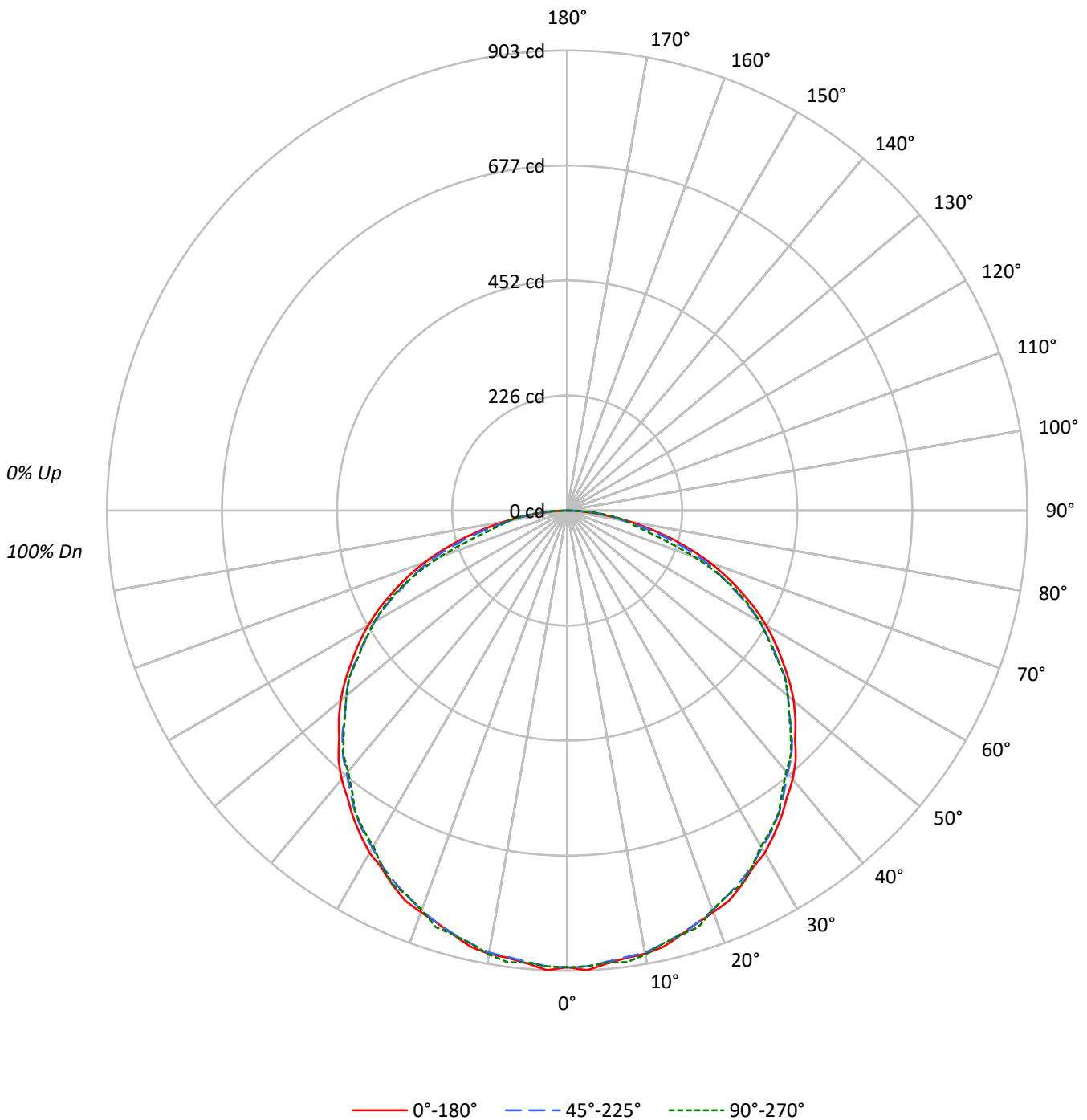
Input Watts (W): 31.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2412	2412	2412
5°	2410	2401	2405
10°	2413	2406	2417
15°	2401	2396	2401
20°	2402	2390	2388
25°	2407	2385	2403
30°	2410	2374	2364
35°	2407	2380	2377
40°	2418	2363	2349
45°	2407	2373	2360
50°	2428	2366	2366
55°	2420	2359	2347
60°	2427	2348	2352
65°	2395	2270	2307
70°	2340	2243	2094
75°	2195	2041	1708
80°	1922	1706	1821
85°	1420	1825	1825



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	3.1
10°-20°	243.5	9.0
20°-30°	371.4	13.7
30°-40°	453.5	16.7
40°-50°	482.5	17.8
50°-60°	453.0	16.7
60°-70°	359.9	13.3
70°-80°	204.6	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°	699.7	25.8
0°-40°	1153.2	42.5
0°-60°	2088.7	76.9
0°-90°	2715.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2715.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	896	896	896	896	896	
5°	892	892	889	894	890	85
15°	862	865	860	863	862	244
25°	811	809	803	804	809	374
35°	733	729	725	721	724	459
45°	632	632	624	622	620	490
55°	516	513	503	502	500	462
65°	376	370	356	362	362	372
75°	211	205	196	172	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°	896.2	896.2	896.2	896.2	896.2
2.5°	902.8	896.2	895.4	896.2	895.4
5°	892.1	892.1	888.9	893.8	890.5
7.5°	885.6	888.9	883.9	888.9	893.8
10°	883.1	882.3	880.6	879.8	884.7
12.5°	876.5	872.4	870.8	873.2	870.0
15°	861.7	865.0	860.1	863.4	861.7
17.5°	848.6	852.7	848.6	850.2	856.8
20°	838.7	839.6	834.6	835.5	833.8
22.5°	828.9	822.3	819.0	819.8	818.2
25°	810.8	809.2	803.4	804.2	809.2
27.5°	789.5	791.1	786.2	785.3	786.2
30°	775.5	771.4	764.0	764.8	760.7
32.5°	755.0	750.0	745.9	741.8	743.5
35°	732.8	728.7	724.6	721.3	723.7
37.5°	708.9	706.5	698.3	697.4	693.3
40°	688.4	681.0	672.8	670.3	668.7
42.5°	663.8	659.7	651.4	647.3	649.8
45°	632.5	631.7	623.5	621.9	620.2
47.5°	607.9	602.2	591.5	592.3	590.7
50°	580.0	575.0	565.2	561.9	565.2
52.5°	549.6	547.1	539.7	536.4	538.9
55°	515.9	512.6	502.8	501.9	500.3
57.5°	484.7	479.8	469.1	465.8	467.4
60°	451.0	446.1	436.2	431.3	437.0
62.5°	415.7	409.1	398.4	399.2	402.5
65°	376.2	370.5	356.5	362.3	362.3
67.5°	337.6	331.9	320.4	320.4	315.5
70°	297.4	290.0	285.1	273.6	266.2
72.5°	254.7	247.3	241.5	221.8	211.1
75°	211.1	205.4	196.3	172.5	164.3
77.5°	165.9	164.3	150.3	132.3	134.7
80°	124.0	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	59.1	57.5	59.1
87.5°	17.3	24.6	27.1	25.5	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)