

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: P393079

Luminaire Tested: **14EN-LD2-33-UNV-L92765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393079
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 (5000K)
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: 2785.7 lumens
Efficiency: N/A
Efficacy: 89.6 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

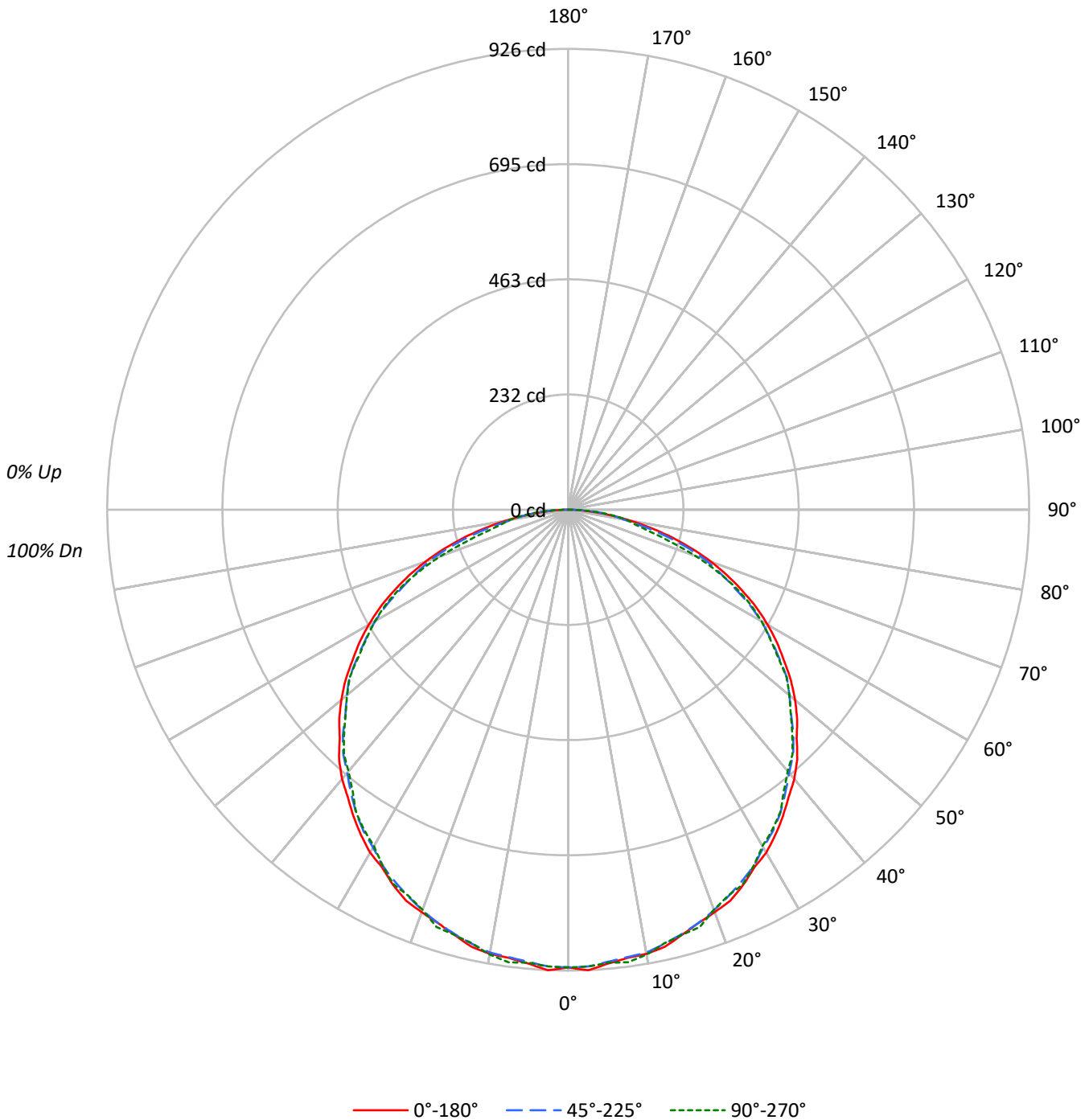
Input Watts (W): 31.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2475	2475	2475
5°	2473	2464	2468
10°	2476	2469	2481
15°	2463	2459	2463
20°	2464	2452	2450
25°	2470	2448	2465
30°	2472	2436	2425
35°	2470	2442	2439
40°	2481	2425	2410
45°	2470	2435	2422
50°	2491	2428	2428
55°	2483	2420	2408
60°	2491	2409	2413
65°	2458	2329	2367
70°	2400	2301	2149
75°	2252	2095	1753
80°	1973	1750	1867
85°	1457	1874	1874



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	3.1
10°-20°	249.9	9.0
20°-30°	381.0	13.7
30°-40°	465.3	16.7
40°-50°	495.1	17.8
50°-60°	464.8	16.7
60°-70°	369.3	13.3
70°-80°	210.0	7.5
80°-90°	63.3	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°	717.9	25.8
0°-40°	1183.2	42.5
0°-60°	2143.2	76.9
0°-90°	2785.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2785.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	920	920	920	920	920	
5°	915	915	912	917	914	87
15°	884	888	882	886	884	250
25°	832	830	824	825	830	383
35°	752	748	743	740	743	471
45°	649	648	640	638	636	503
55°	529	526	516	515	513	474
65°	386	380	366	372	372	382
75°	217	211	202	177	169	228
85°	47	51	61	59	61	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	919.6	919.6	919.6	919.6	919.6
2.5°	926.3	919.6	918.8	919.6	918.8
5°	915.4	915.4	912.0	917.1	913.7
7.5°	908.6	912.0	907.0	912.0	917.1
10°	906.1	905.3	903.6	902.7	907.8
12.5°	899.4	895.2	893.5	896.0	892.6
15°	884.2	887.6	882.5	885.9	884.2
17.5°	870.7	874.9	870.7	872.4	879.1
20°	860.6	861.4	856.4	857.2	855.5
22.5°	850.5	843.7	840.4	841.2	839.5
25°	831.9	830.3	824.4	825.2	830.3
27.5°	810.0	811.7	806.7	805.8	806.7
30°	795.7	791.5	783.9	784.7	780.5
32.5°	774.6	769.6	765.4	761.1	762.8
35°	751.9	747.7	743.4	740.1	742.6
37.5°	727.4	724.9	716.5	715.6	711.4
40°	706.4	698.8	690.3	687.8	686.1
42.5°	681.1	676.8	668.4	664.2	666.7
45°	649.0	648.2	639.8	638.1	636.4
47.5°	623.7	617.8	606.9	607.7	606.0
50°	595.1	590.0	579.9	576.5	579.9
52.5°	563.9	561.4	553.8	550.4	552.9
55°	529.3	526.0	515.9	515.0	513.3
57.5°	497.3	492.3	481.3	477.9	479.6
60°	462.8	457.7	447.6	442.5	448.4
62.5°	426.5	419.8	408.8	409.6	413.0
65°	386.0	380.1	365.8	371.7	371.7
67.5°	346.4	340.5	328.7	328.7	323.7
70°	305.1	297.5	292.5	280.7	273.1
72.5°	261.3	253.7	247.8	227.6	216.6
75°	216.6	210.7	201.5	177.0	168.6
77.5°	170.3	168.6	154.3	135.7	138.2
80°	127.3	129.8	112.9	119.7	120.5
82.5°	86.8	86.8	89.3	94.4	94.4
85°	47.2	51.4	60.7	59.0	60.7
87.5°	17.7	25.3	27.8	26.1	26.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)