

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: P393080

Luminaire Tested: **14EN-LD2-33-UNV-L92765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393080
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 (5700K)
Description: 1X4 ENCOUNTER, 3300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2828.6 lumens
Efficiency: N/A
Efficacy: 91.2 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

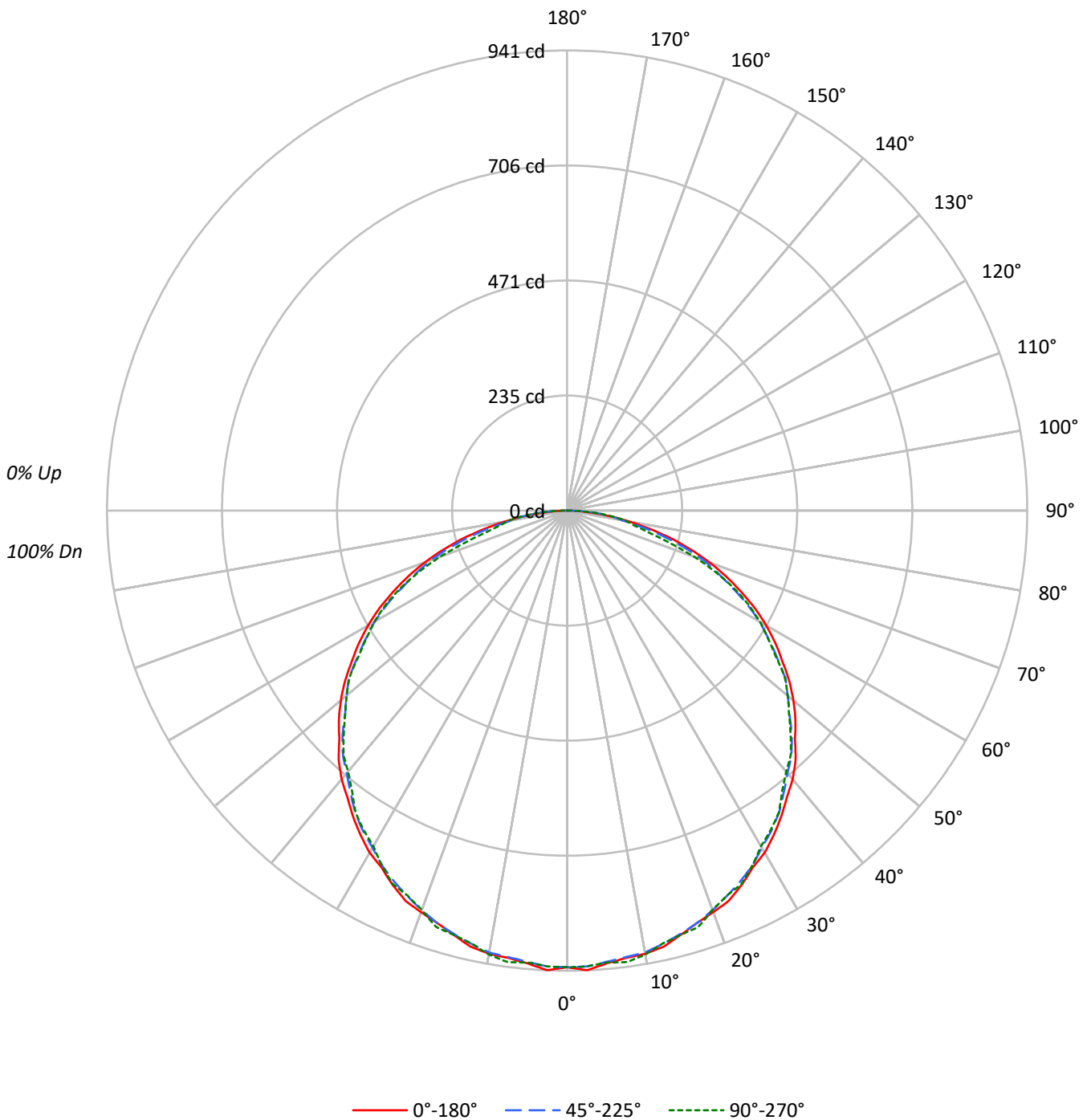
Input Watts (W): 31
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2513	2513	2513
5°	2511	2502	2506
10°	2514	2507	2519
15°	2501	2496	2501
20°	2502	2490	2488
25°	2508	2485	2503
30°	2510	2473	2463
35°	2508	2480	2477
40°	2519	2462	2447
45°	2508	2472	2459
50°	2529	2465	2465
55°	2522	2457	2445
60°	2529	2446	2450
65°	2496	2365	2403
70°	2437	2337	2182
75°	2287	2127	1780
80°	2002	1777	1897
85°	1479	1902	1902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	3.1
10°-20°	253.7	9.0
20°-30°	386.9	13.7
30°-40°	472.5	16.7
40°-50°	502.7	17.8
50°-60°	472.0	16.7
60°-70°	375.0	13.3
70°-80°	213.2	7.5
80°-90°	64.3	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°	729.0	25.8
0°-40°	1201.5	42.5
0°-60°	2176.1	76.9
0°-90°	2828.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2828.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	934	934	934	934	934	
5°	930	930	926	931	928	88
15°	898	901	896	900	898	254
25°	845	843	837	838	843	389
35°	763	759	755	752	754	478
45°	659	658	650	648	646	511
55°	538	534	524	523	521	482
65°	392	386	371	377	377	388
75°	220	214	205	180	171	231
85°	48	52	62	60	62	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	933.8	933.8	933.8	933.8	933.8
2.5°	940.6	933.8	932.9	933.8	932.9
5°	929.5	929.5	926.1	931.2	927.8
7.5°	922.6	926.1	920.9	926.1	931.2
10°	920.1	919.2	917.5	916.6	921.8
12.5°	913.2	908.9	907.2	909.8	906.4
15°	897.8	901.2	896.1	899.5	897.8
17.5°	884.1	888.4	884.1	885.8	892.7
20°	873.8	874.7	869.6	870.4	868.7
22.5°	863.6	856.7	853.3	854.2	852.4
25°	844.7	843.0	837.0	837.9	843.0
27.5°	822.5	824.2	819.1	818.2	819.1
30°	807.9	803.7	796.0	796.8	792.5
32.5°	786.5	781.4	777.1	772.9	774.6
35°	763.4	759.2	754.9	751.5	754.0
37.5°	738.6	736.0	727.5	726.6	722.4
40°	717.2	709.5	701.0	698.4	696.7
42.5°	691.5	687.3	678.7	674.4	677.0
45°	659.0	658.2	649.6	647.9	646.2
47.5°	633.3	627.4	616.2	617.1	615.4
50°	604.2	599.1	588.8	585.4	588.8
52.5°	572.6	570.0	562.3	558.9	561.5
55°	537.5	534.1	523.8	522.9	521.2
57.5°	505.0	499.8	488.7	485.3	487.0
60°	469.9	464.7	454.5	449.3	455.3
62.5°	433.1	426.2	415.1	416.0	419.4
65°	392.0	386.0	371.4	377.4	377.4
67.5°	351.8	345.8	333.8	333.8	328.7
70°	309.8	302.1	297.0	285.0	277.3
72.5°	265.3	257.6	251.6	231.1	220.0
75°	220.0	214.0	204.6	179.7	171.2
77.5°	172.9	171.2	156.6	137.8	140.4
80°	129.2	131.8	114.7	121.5	122.4
82.5°	88.2	88.2	90.7	95.9	95.9
85°	47.9	52.2	61.6	59.9	61.6
87.5°	18.0	25.7	28.2	26.5	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)