

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: P393106

Luminaire Tested: **14EN-LD2-38-UNV-L92765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-53)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-38-UNV-L92765-W2A-1-U (2700K)
Description: 1X4 ENCOUNTER, 3800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2831.8 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

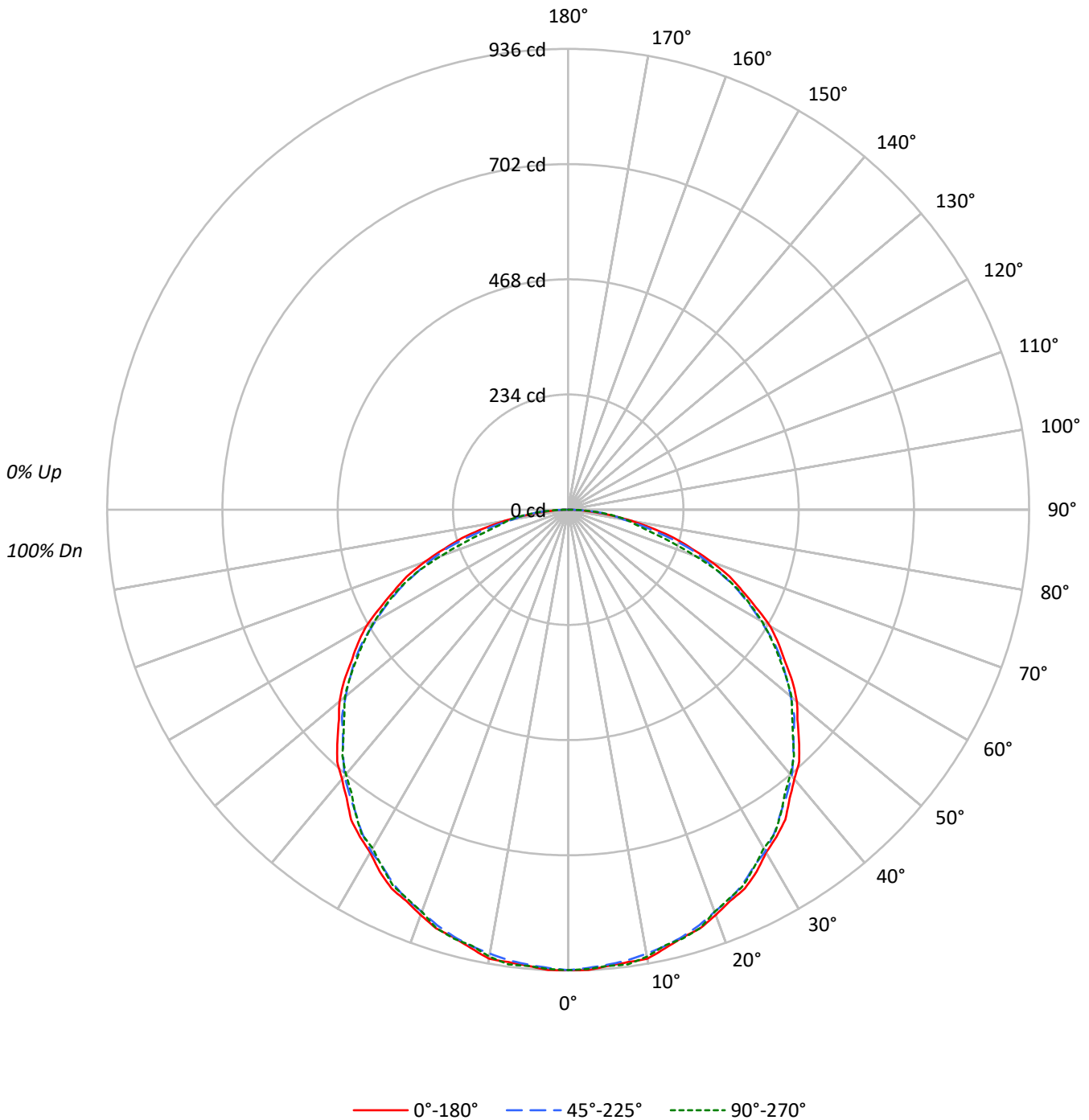
Input Watts (W): 36.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	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	35	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°	2516	2516	2516
5°	2512	2506	2512
10°	2531	2502	2518
15°	2505	2501	2511
20°	2508	2489	2489
25°	2520	2491	2500
30°	2498	2488	2467
35°	2525	2470	2473
40°	2510	2481	2465
45°	2522	2462	2453
50°	2539	2470	2479
55°	2521	2475	2451
60°	2549	2428	2448
65°	2485	2390	2409
70°	2433	2315	2155
75°	2318	2106	1787
80°	2024	1745	1895
85°	1482	1877	1899



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.5	3.1
10°-20°	254.0	9.0
20°-30°	387.4	13.7
30°-40°	473.3	16.7
40°-50°	503.4	17.8
50°-60°	472.6	16.7
60°-70°	374.8	13.2
70°-80°	213.5	7.5
80°-90°	64.2	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°	730.0	25.8
0°-40°	1203.3	42.5
0°-60°	2179.3	77.0
0°-90°	2831.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2831.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	935	935	935	935	935	
5°	930	935	928	931	930	89
15°	899	901	898	899	901	255
25°	849	841	839	840	842	390
35°	768	760	752	753	753	478
45°	663	659	647	648	645	512
55°	537	534	528	522	522	483
65°	390	388	375	377	378	388
75°	223	215	203	182	172	232
85°	48	53	61	61	62	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	935.1	935.1	935.1	935.1	935.1
2.5°	935.9	935.1	931.4	935.9	933.6
5°	929.9	935.1	927.6	930.6	929.9
7.5°	926.9	925.4	923.1	928.4	931.4
10°	926.1	918.6	915.6	920.9	921.6
12.5°	911.9	914.1	908.1	909.6	906.6
15°	899.1	900.6	897.6	899.1	901.4
17.5°	891.6	887.1	884.8	887.8	890.8
20°	875.8	876.6	869.1	872.8	869.1
22.5°	860.1	860.8	856.3	856.3	854.8
25°	848.8	840.6	839.1	839.8	842.1
27.5°	828.6	825.6	816.5	819.6	818.1
30°	803.8	806.8	800.8	794.8	794.0
32.5°	787.3	782.0	779.0	776.8	780.5
35°	768.5	759.5	752.0	752.8	752.8
37.5°	738.5	737.7	729.5	725.7	723.5
40°	714.5	711.5	706.2	701.0	701.7
42.5°	694.2	684.5	676.2	674.7	678.5
45°	662.7	658.9	646.9	647.7	644.7
47.5°	631.2	630.4	622.9	616.9	616.2
50°	606.4	598.9	589.9	588.4	592.1
52.5°	574.1	570.4	557.6	557.6	557.6
55°	537.4	534.4	527.6	522.4	522.4
57.5°	506.6	500.6	492.3	488.6	488.6
60°	473.6	464.6	451.1	452.6	454.8
62.5°	430.0	425.5	413.5	412.0	416.5
65°	390.3	388.0	375.3	376.8	378.3
67.5°	355.0	345.2	331.0	336.2	333.2
70°	309.2	304.0	294.2	283.7	273.9
72.5°	263.4	260.4	255.2	229.7	220.6
75°	222.9	214.6	202.6	181.6	171.9
77.5°	174.9	172.6	155.4	138.8	140.3
80°	130.6	132.1	112.6	119.3	122.3
82.5°	85.6	88.6	92.3	96.8	94.6
85°	48.0	53.3	60.8	60.8	61.5
87.5°	17.3	25.5	27.0	27.0	27.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)