

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: P275748

Luminaire Tested: **14CZ2-39-RDP-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-39-RDP-UNV-L83050-W2A1-U-5000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2617.0 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

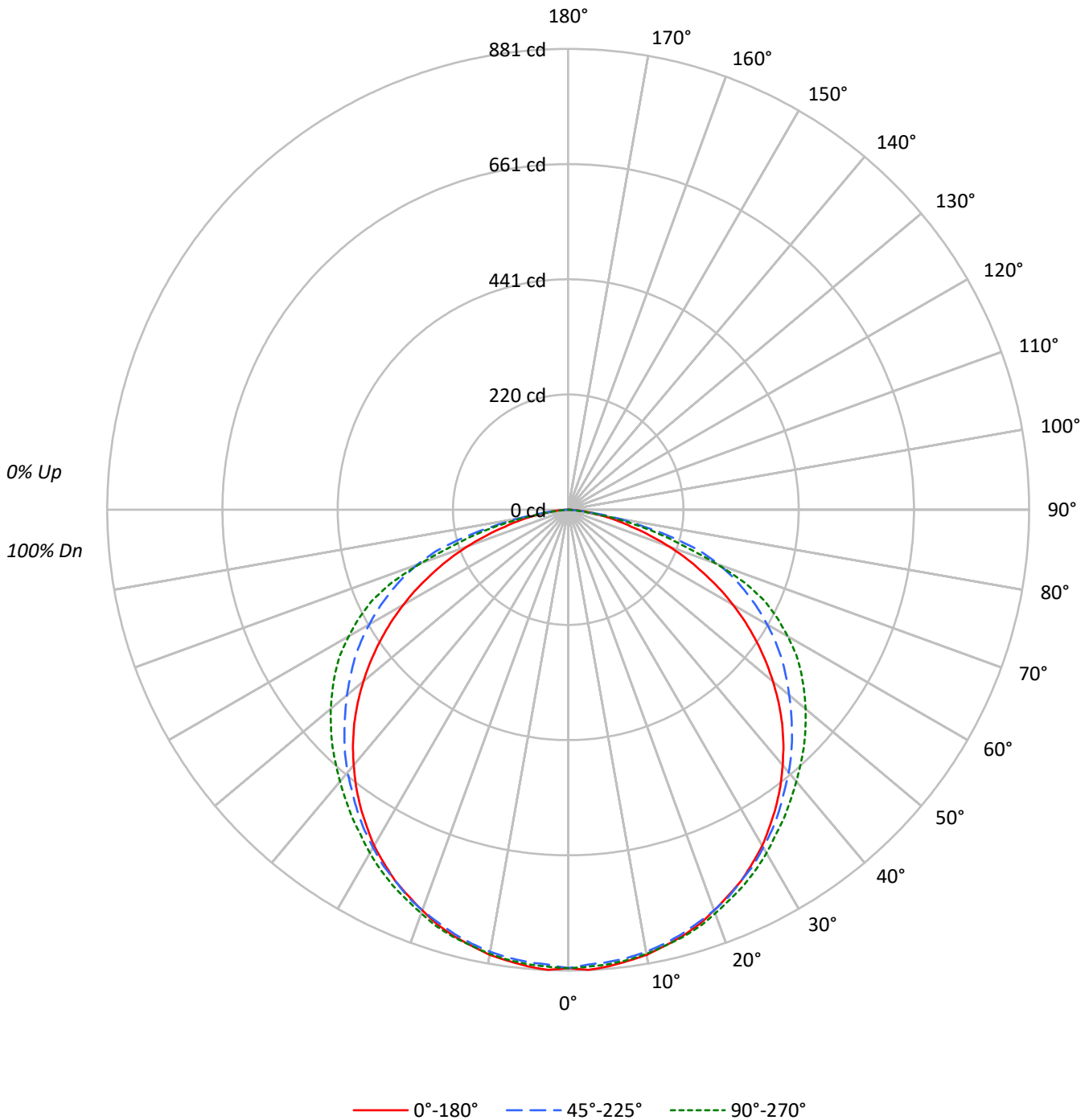
Input Watts (W): 32.457
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84																												
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69																												
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58																												
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49																												
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																												
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																												
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32																												
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29																												
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26																												
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2359	2359	2359
5°	2368	2346	2357
10°	2361	2345	2356
15°	2351	2339	2357
20°	2334	2334	2352
25°	2323	2323	2354
30°	2305	2317	2355
35°	2275	2309	2363
40°	2239	2304	2383
45°	2200	2302	2426
50°	2138	2309	2480
55°	2061	2339	2550
60°	1957	2364	2606
65°	1808	2394	2641
70°	1607	2412	2363
75°	1295	2167	1890
80°	1013	1520	1235
85°	695	442	315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	3.2
10°-20°	238.0	9.1
20°-30°	362.4	13.8
30°-40°	441.4	16.9
40°-50°	468.3	17.9
50°-60°	442.0	16.9
60°-70°	356.9	13.6
70°-80°	193.6	7.4
80°-90°	31.3	1.2
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°	683.4	26.1
0°-40°	1124.8	43.0
0°-60°	2035.2	77.8
0°-90°	2617.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2617.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	876	876	876	876	876	
5°	876	874	868	874	872	83
15°	844	842	840	846	846	238
25°	782	780	782	791	793	360
35°	693	697	703	717	719	433
45°	578	586	605	627	638	445
55°	439	458	498	531	544	392
65°	284	319	376	407	415	281
75°	125	182	208	188	182	136
85°	22	24	14	12	10	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	876.5	876.5	876.5	876.5	876.5
2.5°	880.6	876.5	870.4	876.5	874.5
5°	876.5	874.5	868.3	874.5	872.4
7.5°	870.4	870.4	864.2	868.3	868.3
10°	864.2	862.2	858.1	864.2	862.2
12.5°	854.0	852.0	849.9	856.1	854.0
15°	843.8	841.8	839.7	845.9	845.9
17.5°	831.6	829.5	827.5	835.6	835.6
20°	815.2	815.2	815.2	823.4	821.3
22.5°	798.9	798.9	800.9	809.1	807.0
25°	782.5	780.5	782.5	790.7	792.7
27.5°	762.1	764.1	766.2	774.3	776.4
30°	741.7	743.7	745.7	756.0	758.0
32.5°	717.1	721.2	725.3	737.6	737.6
35°	692.6	696.7	702.8	717.1	719.2
37.5°	666.1	670.1	678.3	694.7	698.7
40°	637.5	643.6	655.8	672.2	678.3
42.5°	608.9	617.0	631.3	649.7	657.9
45°	578.2	586.4	604.8	627.2	637.5
47.5°	545.5	555.7	578.2	606.8	615.0
50°	510.8	525.1	551.6	582.3	592.5
52.5°	476.0	492.4	525.1	557.8	568.0
55°	439.3	457.7	498.5	531.2	543.5
57.5°	402.5	422.9	469.9	504.7	516.9
60°	363.7	388.2	439.3	474.0	484.2
62.5°	324.9	353.5	408.6	443.4	451.5
65°	284.0	318.7	375.9	406.6	414.8
67.5°	245.2	286.0	343.2	365.7	365.7
70°	204.3	249.3	306.5	312.6	300.3
72.5°	163.4	214.5	265.6	243.1	232.9
75°	124.6	181.8	208.4	188.0	181.8
77.5°	94.0	147.1	147.1	134.8	130.8
80°	65.4	112.4	98.1	85.8	79.7
82.5°	42.9	63.3	51.1	40.9	34.7
85°	22.5	24.5	14.3	12.3	10.2
87.5°	8.2	4.1	2.0	4.1	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)