

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: P275749

Luminaire Tested: **14CZ2-44-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275749
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: 14CZ2-44-RDP-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2608.0 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

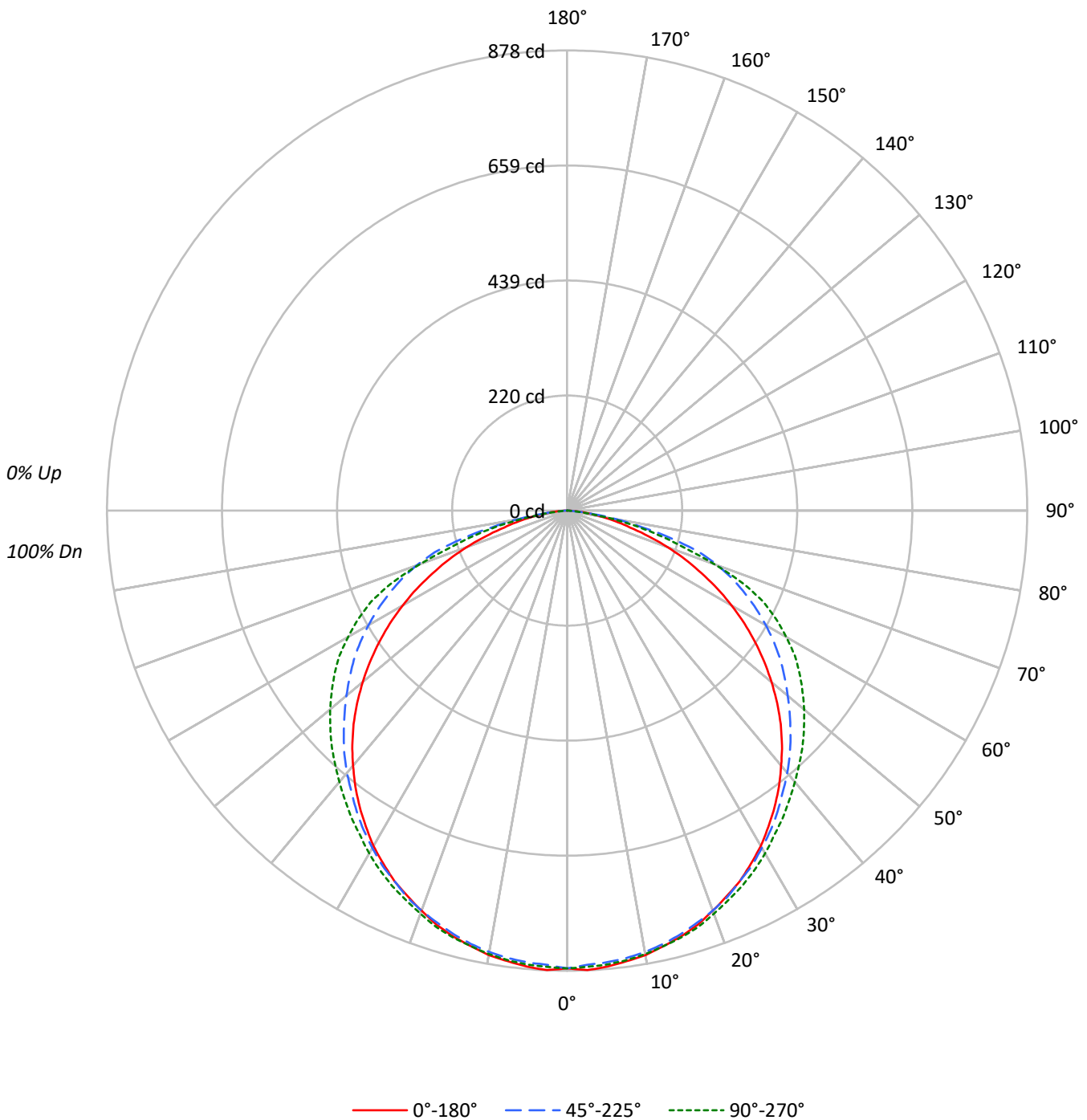
Input Watts (W): 35.526
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2351	2351	2351
5°	2360	2337	2348
10°	2353	2337	2348
15°	2343	2331	2348
20°	2326	2326	2344
25°	2315	2315	2346
30°	2297	2309	2347
35°	2267	2301	2354
40°	2232	2296	2375
45°	2193	2294	2418
50°	2131	2301	2472
55°	2054	2331	2541
60°	1950	2356	2597
65°	1802	2385	2632
70°	1602	2403	2355
75°	1291	2159	1884
80°	1010	1514	1230
85°	692	442	315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.7	3.2
10°-20°	237.2	9.1
20°-30°	361.2	13.8
30°-40°	439.9	16.9
40°-50°	466.7	17.9
50°-60°	440.5	16.9
60°-70°	355.7	13.6
70°-80°	192.9	7.4
80°-90°	31.2	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°	681.1	26.1
0°-40°	1121.0	43.0
0°-60°	2028.2	77.8
0°-90°	2608.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2608.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	874	874	874	874	874	
5°	874	871	865	871	869	83
15°	841	839	837	843	843	237
25°	780	778	780	788	790	359
35°	690	694	700	715	717	432
45°	576	584	603	625	635	444
55°	438	456	497	529	542	391
65°	283	318	375	405	413	280
75°	124	181	208	187	181	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°	873.5	873.5	873.5	873.5	873.5
2.5°	877.6	873.5	867.4	873.5	871.4
5°	873.5	871.4	865.3	871.4	869.4
7.5°	867.4	867.4	861.3	865.3	865.3
10°	861.3	859.2	855.2	861.3	859.2
12.5°	851.1	849.1	847.0	853.1	851.1
15°	840.9	838.9	836.8	842.9	842.9
17.5°	828.7	826.7	824.6	832.8	832.8
20°	812.4	812.4	812.4	820.5	818.5
22.5°	796.1	796.1	798.2	806.3	804.3
25°	779.8	777.8	779.8	788.0	790.0
27.5°	759.5	761.5	763.5	771.7	773.7
30°	739.1	741.1	743.2	753.4	755.4
32.5°	714.7	718.7	722.8	735.0	735.0
35°	690.2	694.3	700.4	714.7	716.7
37.5°	663.8	667.8	676.0	692.3	696.3
40°	635.3	641.4	653.6	669.9	676.0
42.5°	606.8	614.9	629.2	647.5	655.6
45°	576.2	584.4	602.7	625.1	635.3
47.5°	543.6	553.8	576.2	604.7	612.9
50°	509.0	523.3	549.7	580.3	590.5
52.5°	474.4	490.7	523.3	555.9	566.0
55°	437.8	456.1	496.8	529.4	541.6
57.5°	401.1	421.5	468.3	502.9	515.1
60°	362.4	386.9	437.8	472.4	482.6
62.5°	323.7	352.2	407.2	441.8	450.0
65°	283.0	317.6	374.6	405.2	413.3
67.5°	244.3	285.1	342.1	364.5	364.5
70°	203.6	248.4	305.4	311.5	299.3
72.5°	162.9	213.8	264.7	242.3	232.1
75°	124.2	181.2	207.7	187.3	181.2
77.5°	93.7	146.6	146.6	134.4	130.3
80°	65.2	112.0	97.7	85.5	79.4
82.5°	42.8	63.1	50.9	40.7	34.6
85°	22.4	24.4	14.3	12.2	10.2
87.5°	8.1	4.1	2.0	4.1	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)