

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: P275782

Luminaire Tested: **14CZ2-44-RDP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275782
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-L93050-W2A1-U-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2578.0 lumens
Efficiency: N/A
Efficacy: 69.5 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

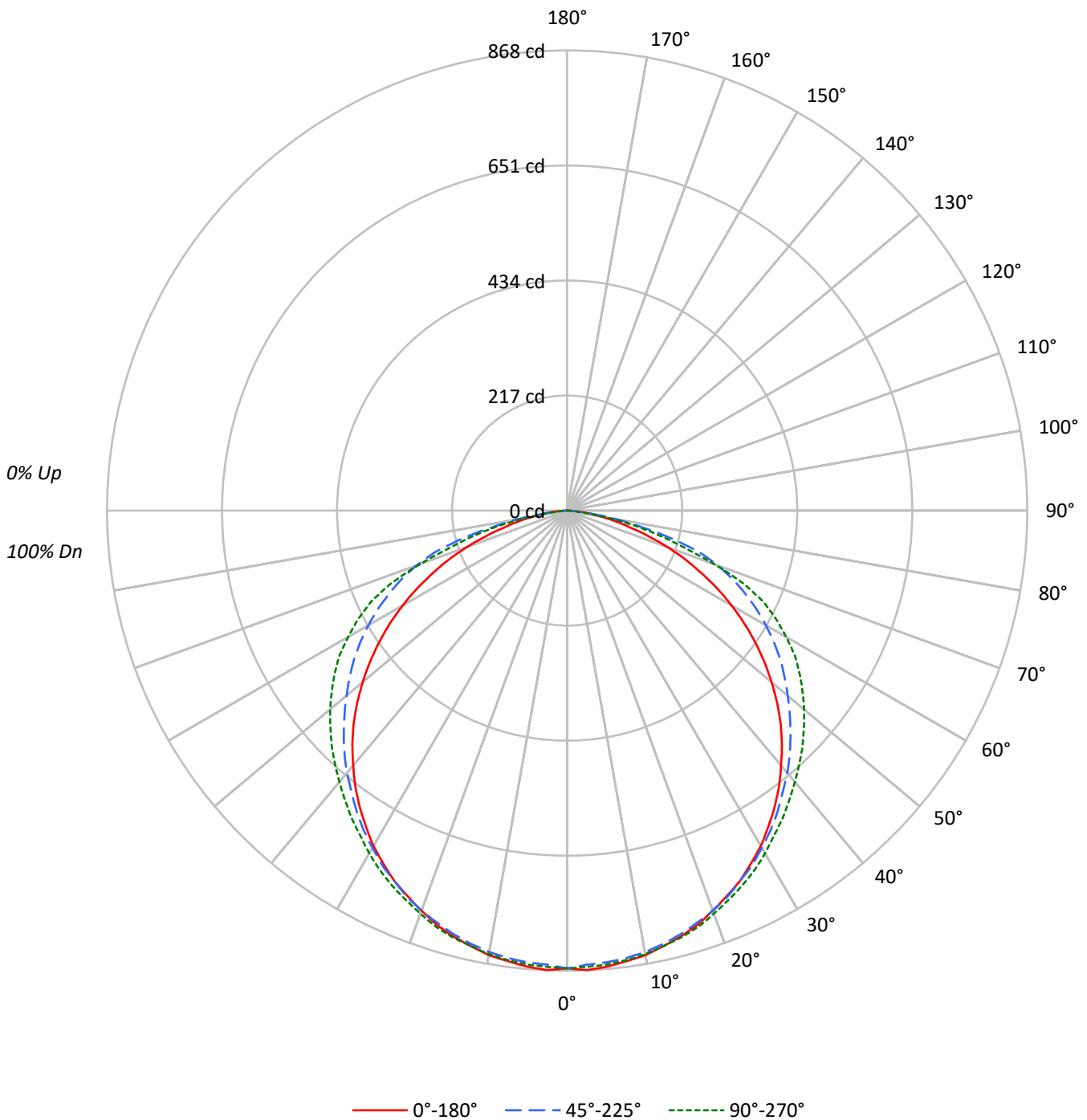
Input Watts (W): 37.107
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84					84			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2323	2323	2323
5°	2332	2311	2321
10°	2326	2310	2321
15°	2316	2305	2321
20°	2300	2300	2317
25°	2289	2289	2319
30°	2270	2283	2320
35°	2241	2275	2327
40°	2206	2270	2347
45°	2168	2267	2390
50°	2107	2275	2444
55°	2030	2304	2512
60°	1928	2329	2567
65°	1782	2358	2602
70°	1584	2375	2328
75°	1277	2135	1862
80°	998	1497	1216
85°	682	435	312



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.7	3.2
10°-20°	234.5	9.1
20°-30°	357.0	13.8
30°-40°	434.9	16.9
40°-50°	461.4	17.9
50°-60°	435.4	16.9
60°-70°	351.6	13.6
70°-80°	190.7	7.4
80°-90°	30.9	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°	673.2	26.1
0°-40°	1108.1	43.0
0°-60°	2004.9	77.8
0°-90°	2578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2578.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	863	863	863	863	863	
5°	863	861	855	861	859	82
15°	831	829	827	833	833	235
25°	771	769	771	779	781	355
35°	682	686	692	706	708	427
45°	570	578	596	618	628	439
55°	433	451	491	523	535	387
65°	280	314	370	400	409	277
75°	123	179	205	185	179	134
85°	22	24	14	12	10	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	863.4	863.4	863.4	863.4	863.4
2.5°	867.5	863.4	857.4	863.4	861.4
5°	863.4	861.4	855.4	861.4	859.4
7.5°	857.4	857.4	851.4	855.4	855.4
10°	851.4	849.3	845.3	851.4	849.3
12.5°	841.3	839.3	837.3	843.3	841.3
15°	831.2	829.2	827.2	833.2	833.2
17.5°	819.2	817.1	815.1	823.2	823.2
20°	803.1	803.1	803.1	811.1	809.1
22.5°	787.0	787.0	789.0	797.0	795.0
25°	770.9	768.8	770.9	778.9	780.9
27.5°	750.7	752.7	754.8	762.8	764.8
30°	730.6	732.6	734.6	744.7	746.7
32.5°	706.4	710.5	714.5	726.6	726.6
35°	682.3	686.3	692.4	706.4	708.5
37.5°	656.1	660.2	668.2	684.3	688.3
40°	628.0	634.0	646.1	662.2	668.2
42.5°	599.8	607.8	621.9	640.0	648.1
45°	569.6	577.6	595.8	617.9	628.0
47.5°	537.4	547.4	569.6	597.8	605.8
50°	503.2	517.3	543.4	573.6	583.7
52.5°	469.0	485.1	517.3	549.5	559.5
55°	432.7	450.8	491.1	523.3	535.4
57.5°	396.5	416.6	462.9	497.1	509.2
60°	358.3	382.4	432.7	466.9	477.0
62.5°	320.0	348.2	402.5	436.8	444.8
65°	279.8	314.0	370.3	400.5	408.6
67.5°	241.5	281.8	338.1	360.3	360.3
70°	201.3	245.5	301.9	307.9	295.9
72.5°	161.0	211.3	261.6	239.5	229.4
75°	122.8	179.1	205.3	185.2	179.1
77.5°	92.6	144.9	144.9	132.8	128.8
80°	64.4	110.7	96.6	84.5	78.5
82.5°	42.3	62.4	50.3	40.3	34.2
85°	22.1	24.2	14.1	12.1	10.1
87.5°	8.1	4.0	2.0	4.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)