

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: P275887

Luminaire Tested: **14CZ2-44-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275887
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-L92765-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: 2500.0 lumens
Efficiency: N/A
Efficacy: 68.9 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

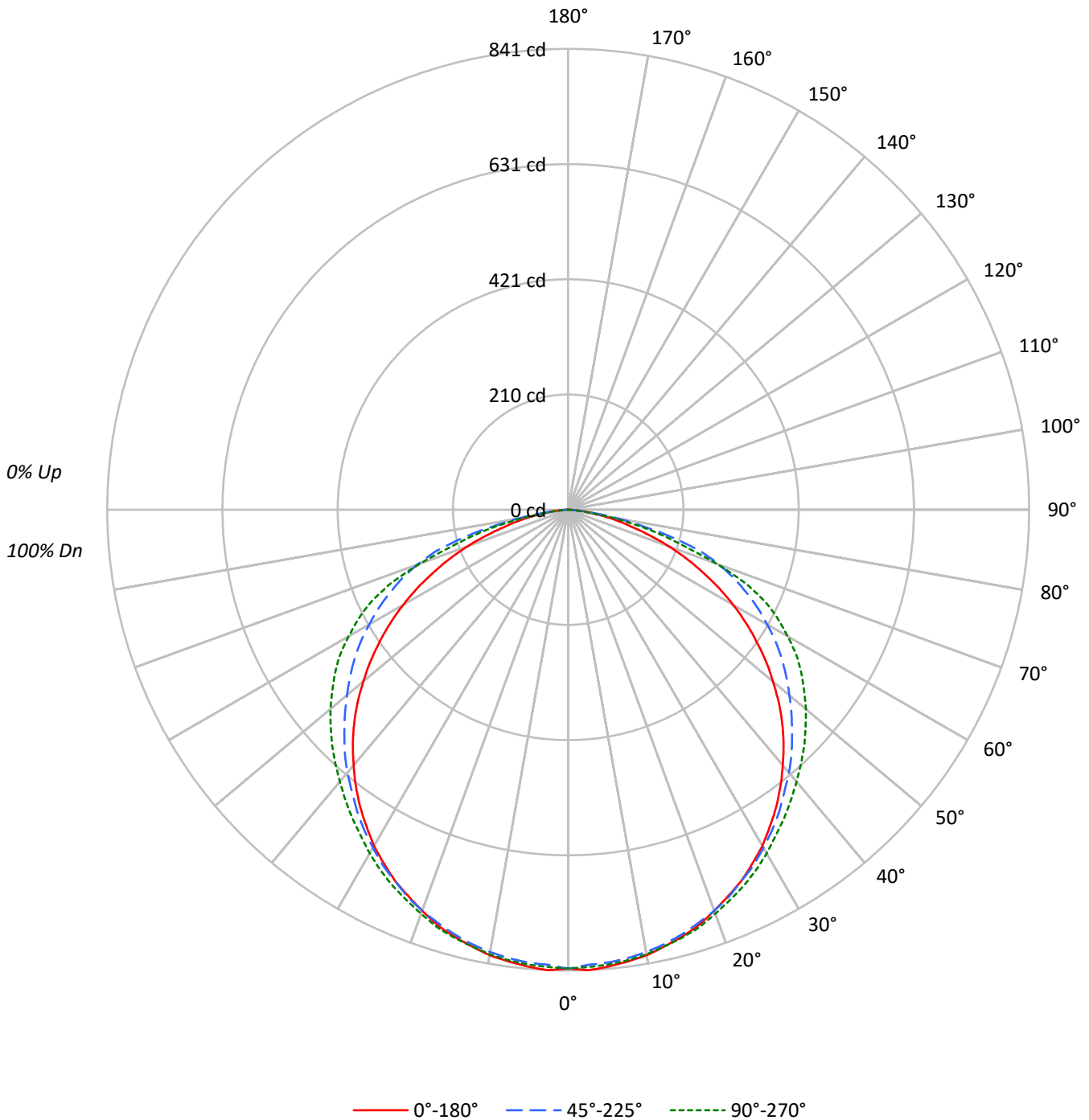
Input Watts (W): 36.27
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2253	2253	2253
5°	2262	2241	2251
10°	2256	2240	2251
15°	2246	2235	2251
20°	2230	2230	2247
25°	2219	2219	2249
30°	2202	2214	2250
35°	2174	2206	2257
40°	2139	2201	2276
45°	2102	2199	2318
50°	2043	2206	2370
55°	1969	2234	2436
60°	1870	2258	2490
65°	1727	2287	2523
70°	1536	2304	2257
75°	1238	2070	1806
80°	969	1452	1179
85°	664	423	303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.3	3.2
10°-20°	227.4	9.1
20°-30°	346.2	13.8
30°-40°	421.7	16.9
40°-50°	447.4	17.9
50°-60°	422.2	16.9
60°-70°	340.9	13.6
70°-80°	184.9	7.4
80°-90°	29.9	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°	652.9	26.1
0°-40°	1074.6	43.0
0°-60°	1944.2	77.8
0°-90°	2500.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2500.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	837	837	837	837	837	
5°	837	835	830	835	833	80
15°	806	804	802	808	808	227
25°	748	746	748	755	757	344
35°	662	666	671	685	687	414
45°	552	560	578	599	609	425
55°	420	437	476	508	519	375
65°	271	304	359	388	396	269
75°	119	174	199	180	174	130
85°	22	23	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°	837.3	837.3	837.3	837.3	837.3
2.5°	841.2	837.3	831.5	837.3	835.4
5°	837.3	835.4	829.5	835.4	833.4
7.5°	831.5	831.5	825.6	829.5	829.5
10°	825.6	823.7	819.7	825.6	823.7
12.5°	815.8	813.9	811.9	817.8	815.8
15°	806.1	804.1	802.2	808.0	808.0
17.5°	794.4	792.4	790.5	798.3	798.3
20°	778.8	778.8	778.8	786.6	784.6
22.5°	763.1	763.1	765.1	772.9	771.0
25°	747.5	745.6	747.5	755.3	757.3
27.5°	728.0	730.0	731.9	739.7	741.7
30°	708.5	710.4	712.4	722.2	724.1
32.5°	685.1	689.0	692.9	704.6	704.6
35°	661.7	665.6	671.4	685.1	687.0
37.5°	636.3	640.2	648.0	663.6	667.5
40°	609.0	614.8	626.5	642.1	648.0
42.5°	581.6	589.4	603.1	620.7	628.5
45°	552.4	560.2	577.7	599.2	609.0
47.5°	521.1	530.9	552.4	579.7	587.5
50°	487.9	501.6	527.0	556.3	566.0
52.5°	454.8	470.4	501.6	532.8	542.6
55°	419.6	437.2	476.2	507.5	519.2
57.5°	384.5	404.0	448.9	482.1	493.8
60°	347.4	370.8	419.6	452.8	462.6
62.5°	310.3	337.7	390.4	423.5	431.3
65°	271.3	304.5	359.1	388.4	396.2
67.5°	234.2	273.2	327.9	349.4	349.4
70°	195.2	238.1	292.8	298.6	286.9
72.5°	156.1	204.9	253.7	232.3	222.5
75°	119.1	173.7	199.1	179.6	173.7
77.5°	89.8	140.5	140.5	128.8	124.9
80°	62.5	107.3	93.7	82.0	76.1
82.5°	41.0	60.5	48.8	39.0	33.2
85°	21.5	23.4	13.7	11.7	9.8
87.5°	7.8	3.9	2.0	3.9	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)