

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: P275827

Luminaire Tested: **14CZ2-39-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275827
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-L82765-W2A1-U-5700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2574.0 lumens
Efficiency: N/A
Efficacy: 80.9 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

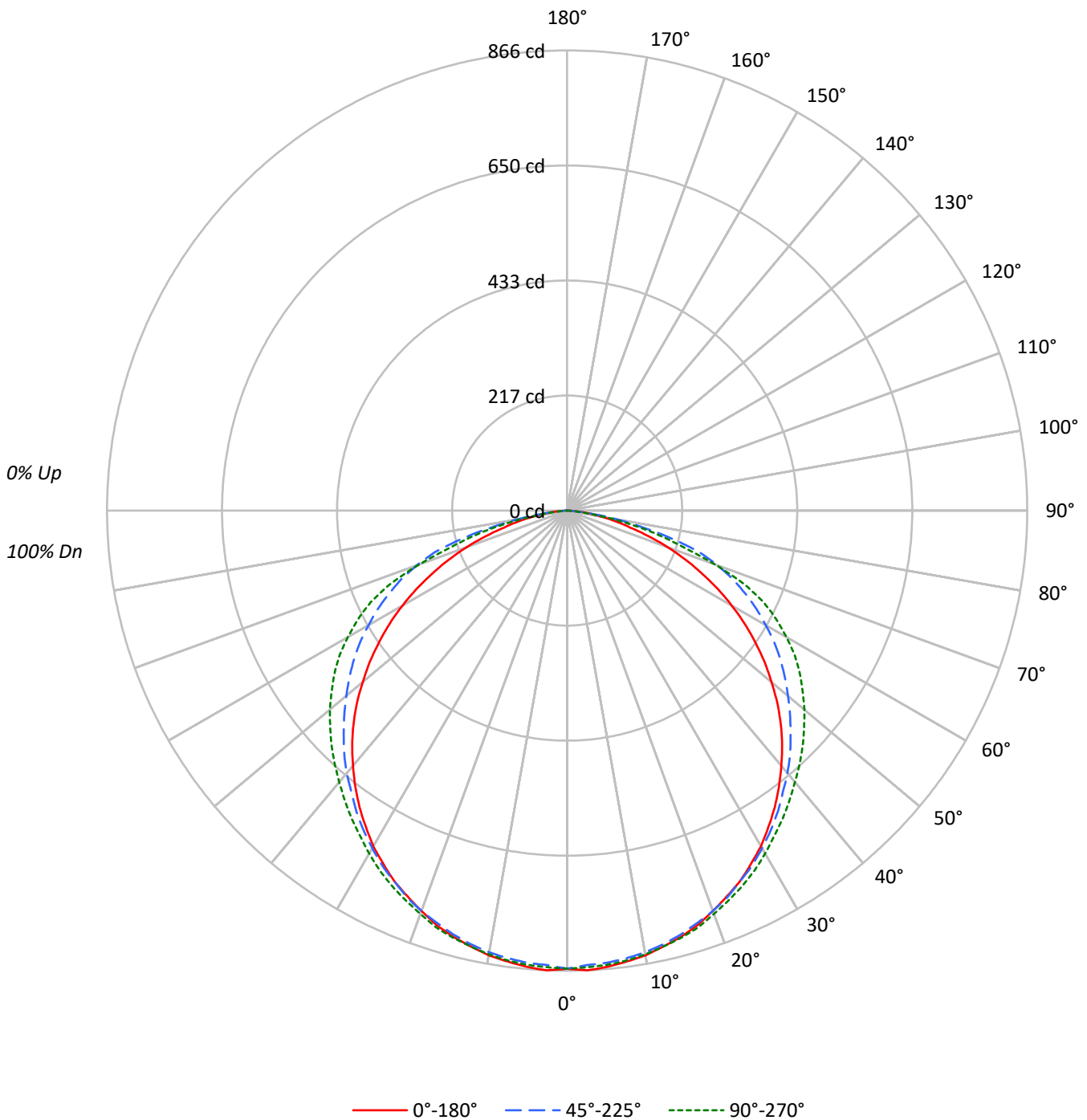
Input Watts (W): 31.806
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2320	2320	2320
5°	2329	2307	2318
10°	2323	2306	2317
15°	2312	2301	2318
20°	2296	2296	2313
25°	2285	2285	2315
30°	2267	2279	2316
35°	2238	2271	2324
40°	2203	2266	2344
45°	2164	2264	2386
50°	2103	2272	2440
55°	2027	2300	2508
60°	1925	2326	2563
65°	1778	2355	2597
70°	1581	2371	2324
75°	1275	2131	1860
80°	996	1495	1215
85°	682	435	309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.6	3.2
10°-20°	234.1	9.1
20°-30°	356.5	13.8
30°-40°	434.2	16.9
40°-50°	460.6	17.9
50°-60°	434.8	16.9
60°-70°	351.0	13.6
70°-80°	190.4	7.4
80°-90°	30.8	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°	672.2	26.1
0°-40°	1106.4	43.0
0°-60°	2001.8	77.8
0°-90°	2574.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2574.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	862	862	862	862	862	
5°	862	860	854	860	858	82
15°	830	828	826	832	832	234
25°	770	768	770	778	780	354
35°	681	685	691	705	707	426
45°	569	577	595	617	627	438
55°	432	450	490	522	534	386
65°	279	314	370	400	408	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°	862.1	862.1	862.1	862.1	862.1
2.5°	866.1	862.1	856.1	862.1	860.1
5°	862.1	860.1	854.1	860.1	858.1
7.5°	856.1	856.1	850.0	854.1	854.1
10°	850.0	848.0	844.0	850.0	848.0
12.5°	840.0	838.0	836.0	842.0	840.0
15°	829.9	827.9	825.9	832.0	832.0
17.5°	817.9	815.9	813.9	821.9	821.9
20°	801.8	801.8	801.8	809.8	807.8
22.5°	785.7	785.7	787.7	795.8	793.8
25°	769.7	767.6	769.7	777.7	779.7
27.5°	749.6	751.6	753.6	761.6	763.6
30°	729.5	731.5	733.5	743.5	745.5
32.5°	705.4	709.4	713.4	725.4	725.4
35°	681.2	685.3	691.3	705.4	707.4
37.5°	655.1	659.1	667.2	683.2	687.3
40°	627.0	633.0	645.1	661.1	667.2
42.5°	598.8	606.9	621.0	639.0	647.1
45°	568.7	576.7	594.8	616.9	627.0
47.5°	536.6	546.6	568.7	596.8	604.9
50°	502.4	516.5	542.6	572.7	582.8
52.5°	468.2	484.3	516.5	548.6	558.7
55°	432.1	450.1	490.3	522.5	534.5
57.5°	395.9	416.0	462.2	496.4	508.4
60°	357.7	381.8	432.1	466.2	476.3
62.5°	319.5	347.7	401.9	436.1	444.1
65°	279.3	313.5	369.8	399.9	407.9
67.5°	241.1	281.3	337.6	359.7	359.7
70°	201.0	245.2	301.4	307.5	295.4
72.5°	160.8	211.0	261.2	239.1	229.1
75°	122.6	178.9	205.0	184.9	178.9
77.5°	92.4	144.7	144.7	132.6	128.6
80°	64.3	110.5	96.5	84.4	78.4
82.5°	42.2	62.3	50.2	40.2	34.2
85°	22.1	24.1	14.1	12.1	10.0
87.5°	8.0	4.0	2.0	4.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)