

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: P275879

Luminaire Tested: **14CZ2-39-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275879
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-L92765-W2A1-U-5000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2282.0 lumens
Efficiency: N/A
Efficacy: 72.0 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

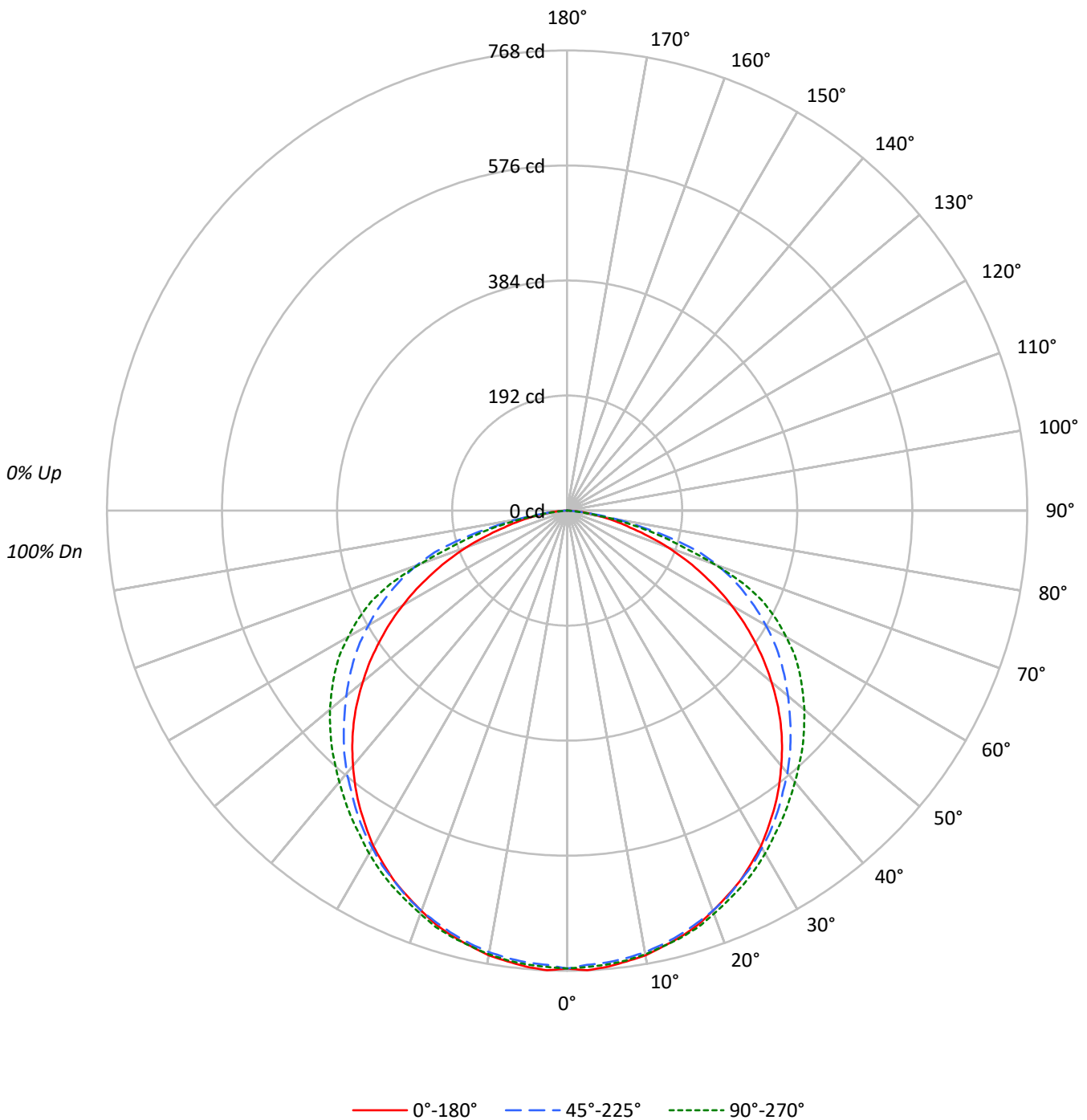
Input Watts (W): 31.713
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2057	2057	2057
5°	2065	2045	2055
10°	2059	2045	2054
15°	2050	2040	2055
20°	2036	2036	2051
25°	2026	2026	2053
30°	2009	2021	2054
35°	1984	2013	2060
40°	1953	2009	2078
45°	1919	2007	2116
50°	1865	2014	2163
55°	1797	2039	2223
60°	1707	2061	2272
65°	1577	2087	2303
70°	1402	2102	2061
75°	1130	1889	1649
80°	883	1325	1077
85°	605	386	275



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.3	3.2
10°-20°	207.6	9.1
20°-30°	316.0	13.8
30°-40°	384.9	16.9
40°-50°	408.4	17.9
50°-60°	385.4	16.9
60°-70°	311.2	13.6
70°-80°	168.8	7.4
80°-90°	27.3	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°	595.9	26.1
0°-40°	980.9	43.0
0°-60°	1774.7	77.8
0°-90°	2282.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2282.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	764	764	764	764	764	
5°	764	762	757	762	761	73
15°	736	734	732	738	738	208
25°	682	681	682	690	691	314
35°	604	608	613	625	627	378
45°	504	511	527	547	556	388
55°	383	399	435	463	474	342
65°	248	278	328	354	362	245
75°	109	159	182	164	159	119
85°	20	21	12	11	9	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	764.3	764.3	764.3	764.3	764.3
2.5°	767.9	764.3	759.0	764.3	762.5
5°	764.3	762.5	757.2	762.5	760.7
7.5°	759.0	759.0	753.6	757.2	757.2
10°	753.6	751.8	748.3	753.6	751.8
12.5°	744.7	742.9	741.1	746.5	744.7
15°	735.8	734.0	732.2	737.6	737.6
17.5°	725.1	723.3	721.5	728.7	728.7
20°	710.9	710.9	710.9	718.0	716.2
22.5°	696.6	696.6	698.4	705.5	703.7
25°	682.3	680.6	682.3	689.5	691.3
27.5°	664.5	666.3	668.1	675.2	677.0
30°	646.7	648.5	650.3	659.2	661.0
32.5°	625.3	628.9	632.5	643.2	643.2
35°	604.0	607.5	612.9	625.3	627.1
37.5°	580.8	584.4	591.5	605.7	609.3
40°	555.9	561.2	571.9	586.1	591.5
42.5°	530.9	538.0	550.5	566.5	573.7
45°	504.2	511.3	527.3	546.9	555.9
47.5°	475.7	484.6	504.2	529.1	536.3
50°	445.4	457.9	481.0	507.8	516.7
52.5°	415.1	429.4	457.9	486.4	495.3
55°	383.0	399.1	434.7	463.2	473.9
57.5°	351.0	368.8	409.8	440.1	450.7
60°	317.1	338.5	383.0	413.3	422.2
62.5°	283.3	308.2	356.3	386.6	393.7
65°	247.6	277.9	327.8	354.5	361.7
67.5°	213.8	249.4	299.3	318.9	318.9
70°	178.2	217.4	267.2	272.6	261.9
72.5°	142.5	187.1	231.6	212.0	203.1
75°	108.7	158.6	181.7	163.9	158.6
77.5°	82.0	128.3	128.3	117.6	114.0
80°	57.0	98.0	85.5	74.8	69.5
82.5°	37.4	55.2	44.5	35.6	30.3
85°	19.6	21.4	12.5	10.7	8.9
87.5°	7.1	3.6	1.8	3.6	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)