

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: P275825

Luminaire Tested: **14CZ2-39-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275825
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-5000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2542.0 lumens
Efficiency: N/A
Efficacy: 80.2 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

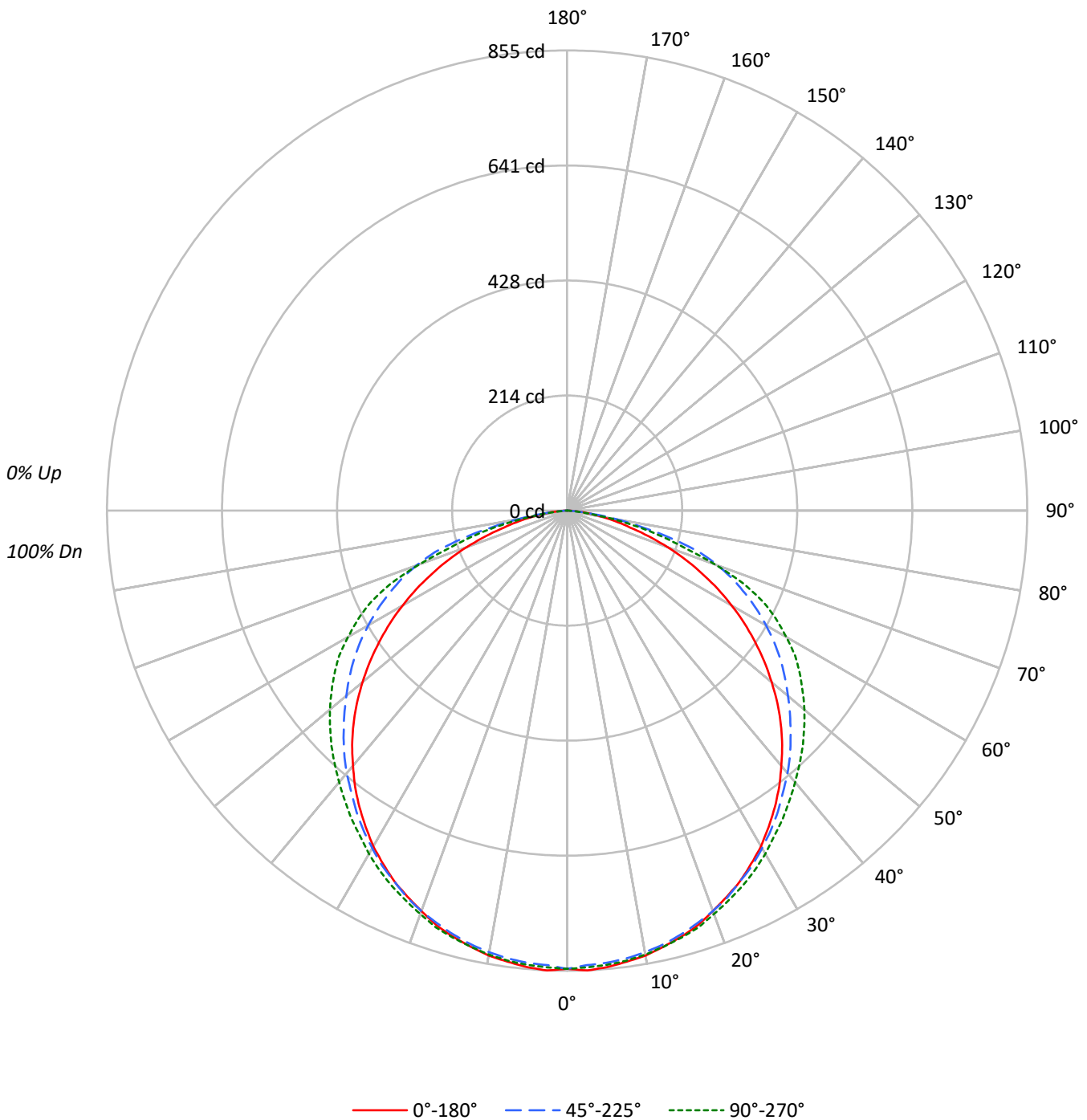
Input Watts (W): 31.713
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2291	2291	2291
5°	2300	2278	2289
10°	2294	2278	2288
15°	2283	2272	2289
20°	2267	2267	2285
25°	2257	2257	2286
30°	2238	2251	2288
35°	2210	2243	2295
40°	2175	2238	2315
45°	2137	2235	2356
50°	2077	2243	2409
55°	2002	2272	2477
60°	1901	2296	2531
65°	1757	2325	2565
70°	1562	2342	2295
75°	1259	2104	1836
80°	984	1477	1199
85°	673	429	306



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	3.2
10°-20°	231.2	9.1
20°-30°	352.0	13.8
30°-40°	428.8	16.9
40°-50°	454.9	17.9
50°-60°	429.3	16.9
60°-70°	346.6	13.6
70°-80°	188.1	7.4
80°-90°	30.4	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°	663.8	26.1
0°-40°	1092.6	43.0
0°-60°	1976.9	77.8
0°-90°	2542.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2542.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	851	851	851	851	851	
5°	851	849	843	849	847	81
15°	820	818	816	822	822	231
25°	760	758	760	768	770	350
35°	673	677	683	697	699	421
45°	562	570	587	609	619	432
55°	427	444	484	516	528	381
65°	276	310	365	395	403	273
75°	121	177	202	183	177	132
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°	851.4	851.4	851.4	851.4	851.4
2.5°	855.3	851.4	845.4	851.4	849.4
5°	851.4	849.4	843.4	849.4	847.4
7.5°	845.4	845.4	839.5	843.4	843.4
10°	839.5	837.5	833.5	839.5	837.5
12.5°	829.6	827.6	825.6	831.5	829.6
15°	819.6	817.6	815.7	821.6	821.6
17.5°	807.7	805.7	803.8	811.7	811.7
20°	791.8	791.8	791.8	799.8	797.8
22.5°	776.0	776.0	778.0	785.9	783.9
25°	760.1	758.1	760.1	768.0	770.0
27.5°	740.2	742.2	744.2	752.2	754.1
30°	720.4	722.4	724.4	734.3	736.3
32.5°	696.6	700.6	704.5	716.4	716.4
35°	672.8	676.7	682.7	696.6	698.6
37.5°	647.0	650.9	658.9	674.8	678.7
40°	619.2	625.1	637.0	652.9	658.9
42.5°	591.4	599.3	613.2	631.1	639.0
45°	561.6	569.6	587.4	609.3	619.2
47.5°	529.9	539.8	561.6	589.4	597.4
50°	496.1	510.0	535.8	565.6	575.5
52.5°	462.4	478.3	510.0	541.8	551.7
55°	426.7	444.5	484.2	516.0	527.9
57.5°	391.0	410.8	456.5	490.2	502.1
60°	353.3	377.1	426.7	460.4	470.3
62.5°	315.5	343.3	396.9	430.7	438.6
65°	275.9	309.6	365.2	394.9	402.9
67.5°	238.1	277.8	333.4	355.2	355.2
70°	198.5	242.1	297.7	303.6	291.7
72.5°	158.8	208.4	258.0	236.2	226.2
75°	121.1	176.6	202.4	182.6	176.6
77.5°	91.3	142.9	142.9	131.0	127.0
80°	63.5	109.2	95.3	83.4	77.4
82.5°	41.7	61.5	49.6	39.7	33.7
85°	21.8	23.8	13.9	11.9	9.9
87.5°	7.9	4.0	2.0	4.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)