

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: P275524

Luminaire Tested: **14CZ2-29-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275524
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-29-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2627.0 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

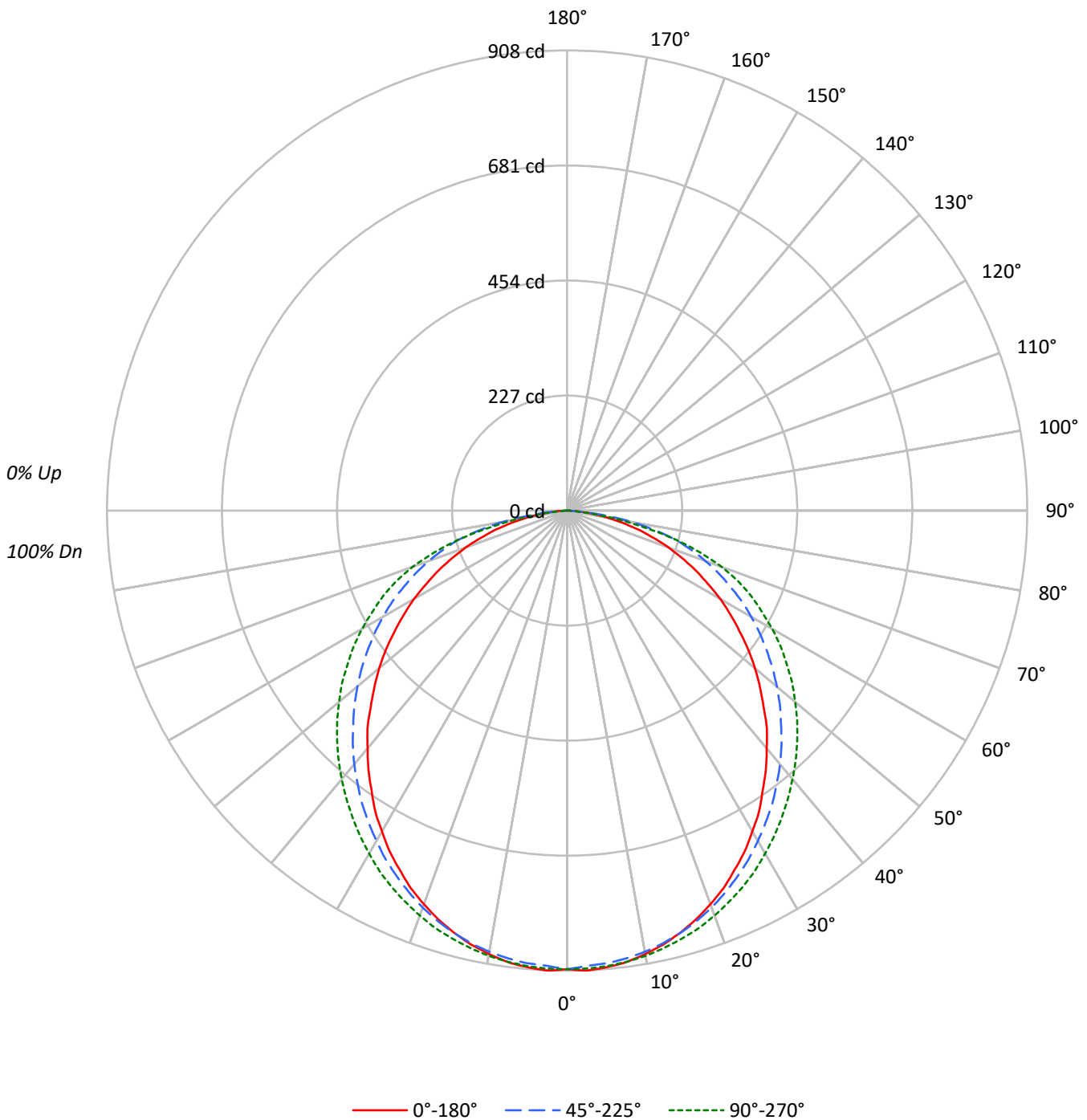
Input Watts (W): 22.506
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	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	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32					32			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2435	2435	2435
5°	2443	2422	2437
10°	2428	2415	2438
15°	2402	2404	2437
20°	2367	2387	2436
25°	2322	2364	2433
30°	2271	2339	2428
35°	2211	2319	2427
40°	2152	2296	2430
45°	2087	2272	2443
50°	2025	2261	2460
55°	1948	2253	2481
60°	1879	2257	2516
65°	1783	2264	2555
70°	1673	2282	2553
75°	1517	2302	2308
80°	1244	1988	1643
85°	923	942	380



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.6	3.3
10°-20°	244.6	9.3
20°-30°	368.5	14.0
30°-40°	442.2	16.8
40°-50°	460.9	17.5
50°-60°	426.7	16.2
60°-70°	344.8	13.1
70°-80°	210.2	8.0
80°-90°	43.4	1.7
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°	698.8	26.6
0°-40°	1141.0	43.4
0°-60°	2028.6	77.2
0°-90°	2627.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2627.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	905	905	905	905	905	
5°	904	902	897	903	902	86
15°	862	863	863	875	875	243
25°	782	787	796	816	820	360
35°	673	684	706	732	739	422
45°	548	565	597	630	642	424
55°	415	437	480	518	529	372
65°	280	308	356	391	401	277
75°	146	178	221	225	222	153
85°	30	44	30	17	12	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	905.0	905.0	905.0	905.0	905.0
2.5°	908.5	905.6	899.2	905.6	904.4
5°	904.4	902.1	896.8	903.3	902.1
7.5°	898.6	896.2	891.5	899.2	898.0
10°	888.6	887.4	883.9	892.7	892.1
12.5°	876.9	876.3	874.6	884.5	883.9
15°	862.2	862.8	862.8	874.6	874.6
17.5°	845.8	847.0	849.4	862.2	864.0
20°	826.5	828.9	833.5	848.2	850.5
22.5°	806.6	808.4	815.4	833.0	835.3
25°	782.0	786.7	796.1	816.0	819.5
27.5°	758.6	762.7	775.6	796.1	801.9
30°	731.0	737.5	752.7	775.0	781.4
32.5°	704.7	711.7	729.3	755.1	760.9
35°	673.0	683.6	705.8	731.6	738.7
37.5°	644.3	654.3	679.5	707.6	715.8
40°	612.7	625.0	653.7	683.6	691.8
42.5°	583.4	595.1	626.2	656.6	667.8
45°	548.3	564.7	596.9	630.3	642.0
47.5°	516.1	532.5	569.4	605.1	615.6
50°	483.8	501.4	540.1	577.0	587.5
52.5°	450.5	469.2	510.8	547.7	560.0
55°	415.3	437.0	480.3	517.8	528.9
57.5°	381.9	404.2	450.5	488.5	499.7
60°	349.1	372.0	419.4	455.7	467.4
62.5°	312.8	339.7	388.9	424.7	433.5
65°	280.0	307.5	355.6	391.3	401.3
67.5°	245.4	275.3	323.3	356.1	365.5
70°	212.6	243.7	290.0	320.4	324.5
72.5°	177.5	209.1	256.0	275.3	275.3
75°	145.9	178.1	221.4	224.9	222.0
77.5°	111.3	147.0	175.1	168.1	161.1
80°	80.3	115.4	128.3	115.4	106.0
82.5°	53.9	83.8	77.3	61.5	54.5
85°	29.9	44.5	30.5	17.0	12.3
87.5°	11.1	10.0	2.9	2.9	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)