

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: P275689

Luminaire Tested: **14CZ2-29-S-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-29-S-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2387.0 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

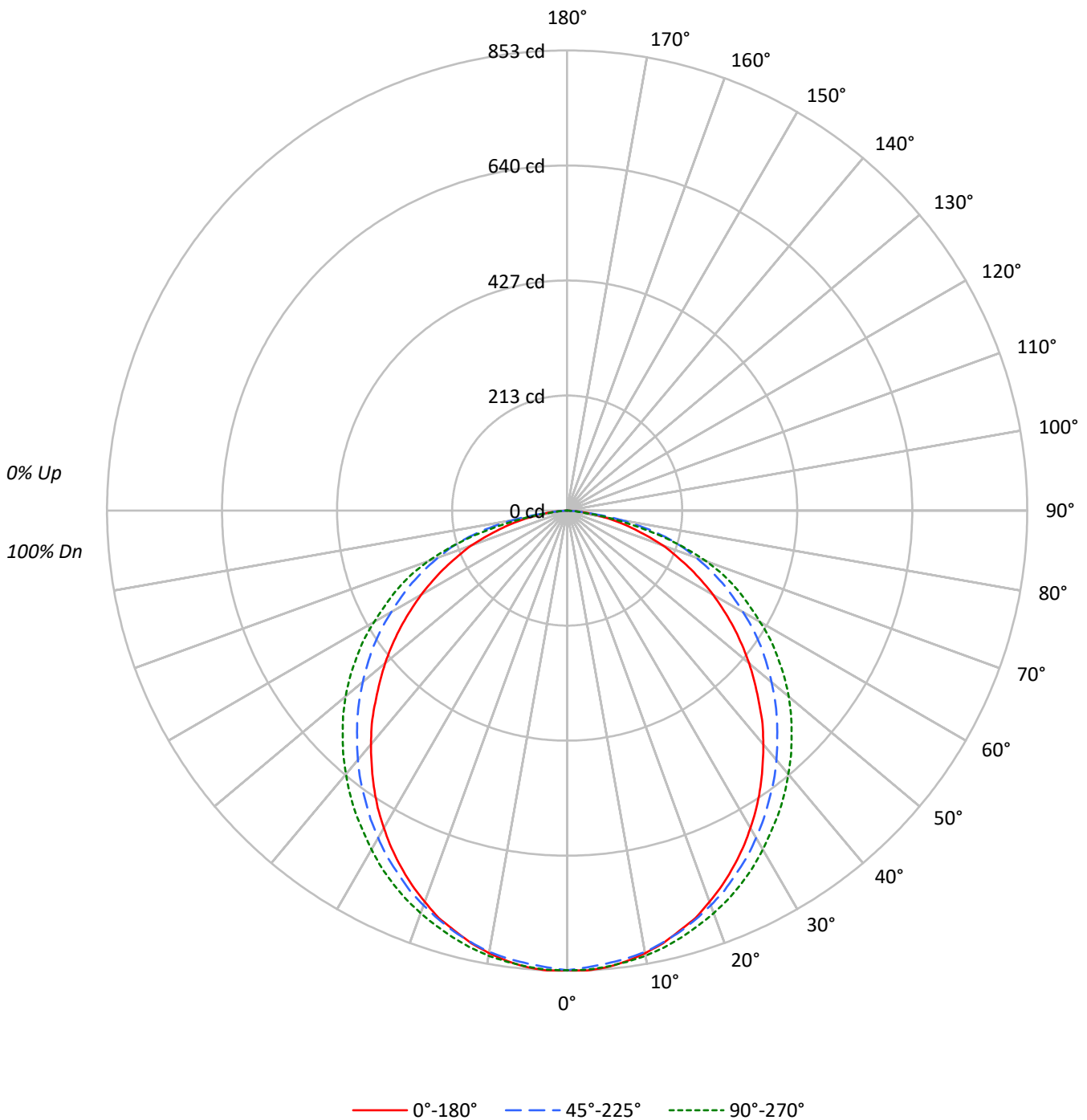
Input Watts (W): 21.948
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2293	2293	2293
5°	2296	2276	2292
10°	2277	2270	2290
15°	2245	2252	2282
20°	2210	2230	2274
25°	2165	2203	2267
30°	2111	2177	2254
35°	2053	2146	2247
40°	1987	2120	2241
45°	1914	2094	2238
50°	1843	2071	2244
55°	1766	2054	2238
60°	1681	2026	2223
65°	1582	2020	2223
70°	1490	2002	2161
75°	1292	1957	1845
80°	1046	1578	1229
85°	695	550	364



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.5	3.4
10°-20°	229.0	9.6
20°-30°	343.5	14.4
30°-40°	409.7	17.2
40°-50°	423.6	17.7
50°-60°	386.7	16.2
60°-70°	304.3	12.7
70°-80°	177.2	7.4
80°-90°	32.6	1.4
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	27.4
0°-40°	1062.6	44.5
0°-60°	1872.9	78.5
0°-90°	2387.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2387.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	852	852	852	852	852	
5°	850	847	843	850	849	81
15°	806	807	808	819	819	227
25°	729	733	742	760	763	336
35°	625	633	653	678	684	391
45°	503	520	550	581	588	388
55°	376	396	438	470	477	337
65°	248	275	317	342	349	247
75°	124	154	188	185	178	132
85°	22	32	18	14	12	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	852.1	852.1	852.1	852.1	852.1
2.5°	853.3	850.9	847.4	853.3	852.1
5°	849.8	847.4	842.7	849.8	848.6
7.5°	842.7	840.3	837.9	845.0	843.8
10°	833.2	832.0	830.8	839.1	837.9
12.5°	821.3	821.3	820.2	829.6	829.6
15°	806.0	807.1	808.3	819.0	819.0
17.5°	791.8	790.6	794.1	806.0	807.1
20°	771.6	774.0	778.7	792.9	794.1
22.5°	751.5	753.9	762.2	776.4	779.9
25°	729.0	732.6	742.1	759.8	763.4
27.5°	705.4	710.1	723.1	742.1	745.6
30°	679.3	686.4	700.6	721.9	725.5
32.5°	653.3	660.4	678.1	699.4	704.2
35°	624.9	633.2	653.3	678.1	684.1
37.5°	595.3	606.0	629.6	654.5	661.6
40°	565.7	577.5	603.6	629.6	637.9
42.5°	536.1	548.0	576.4	606.0	614.2
45°	503.0	519.6	550.3	581.1	588.2
47.5°	471.0	488.8	523.1	553.9	563.3
50°	440.3	458.0	494.7	526.7	536.1
52.5°	408.3	427.2	466.3	499.4	507.7
55°	376.4	396.5	437.9	469.8	477.0
57.5°	344.4	365.7	408.3	439.1	447.4
60°	312.4	334.9	376.4	407.1	413.0
62.5°	280.5	304.2	346.8	374.0	379.9
65°	248.5	274.6	317.2	342.0	349.1
67.5°	217.8	243.8	285.2	308.9	314.8
70°	189.4	213.0	254.5	272.2	274.6
72.5°	153.9	183.4	223.7	233.1	227.2
75°	124.3	153.9	188.2	184.6	177.5
77.5°	94.7	124.3	146.8	134.9	125.5
80°	67.5	97.0	101.8	84.0	79.3
82.5°	43.8	67.5	56.8	43.8	35.5
85°	22.5	32.0	17.8	14.2	11.8
87.5°	7.1	4.7	2.4	2.4	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)