

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: P258836

Luminaire Tested: **14CZ-LD5-29-S-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258836
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-29-S-UNV-L92765-W2A1-U-2700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2350.0 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

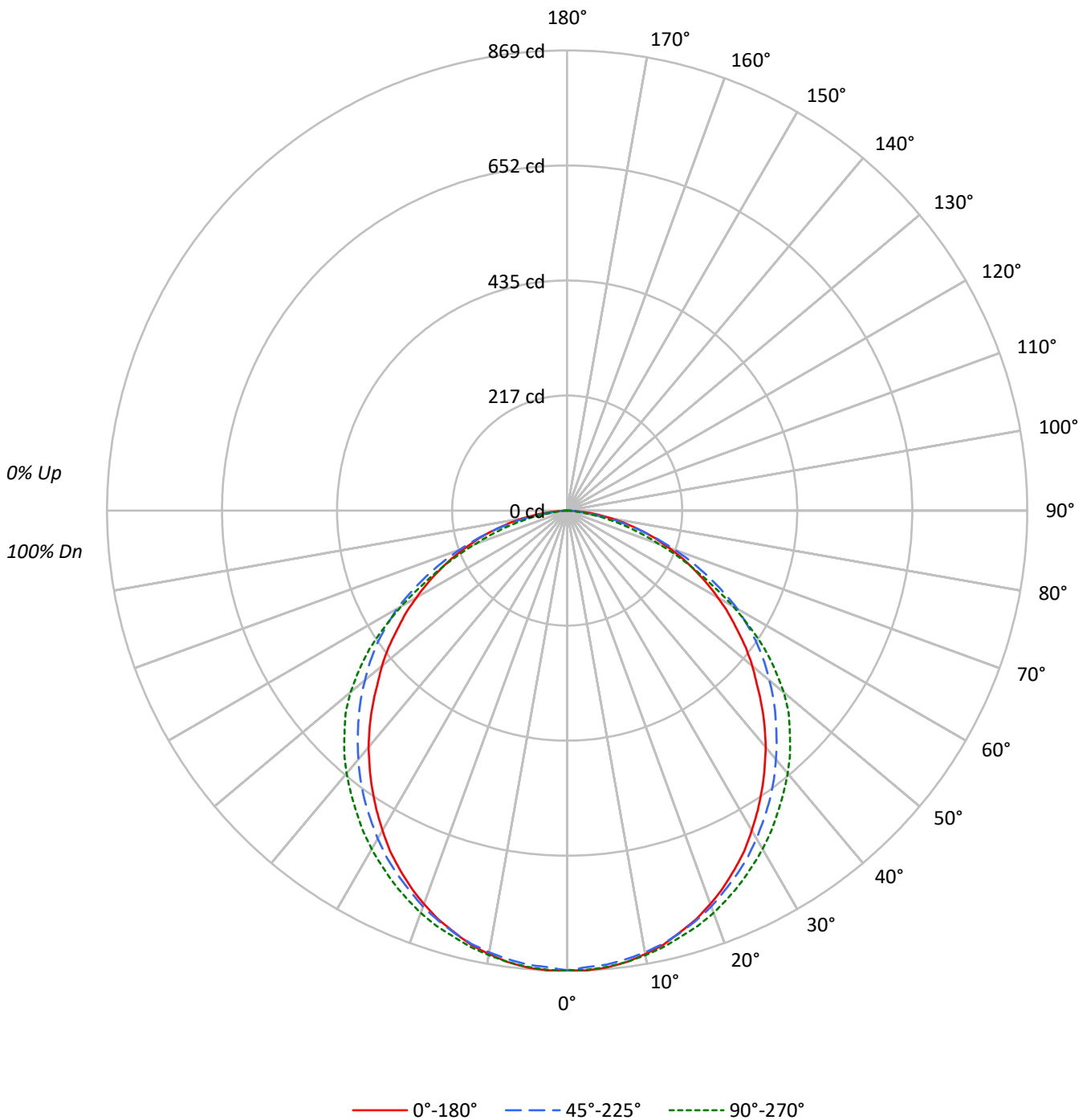
Input Watts (W): 22.041
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258836

CATALOG NUMBER: 14CZ-LD5-29-S-UNV-L92765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P258836

CATALOG NUMBER: 14CZ-LD5-29-S-UNV-L92765-W2A1-U-2700K

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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2336	2336	2336
5°	2339	2325	2336
10°	2323	2315	2329
15°	2296	2299	2319
20°	2264	2279	2315
25°	2220	2251	2304
30°	2167	2222	2294
35°	2109	2191	2281
40°	2049	2155	2277
45°	1977	2120	2264
50°	1912	2087	2236
55°	1837	2054	2137
60°	1770	1995	1950
65°	1694	1867	1713
70°	1598	1697	1450
75°	1492	1470	1198
80°	1314	1136	876
85°	1034	550	485



TEST NUMBER: P258836

CATALOG NUMBER: 14CZ-LD5-29-S-UNV-L92765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	3.5
10°-20°	233.7	9.9
20°-30°	350.7	14.9
30°-40°	418.1	17.8
40°-50°	430.6	18.3
50°-60°	383.8	16.3
60°-70°	276.5	11.8
70°-80°	144.6	6.2
80°-90°	29.9	1.3
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°	666.4	28.4
0°-40°	1084.5	46.1
0°-60°	1898.9	80.8
0°-90°	2350.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2350.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	868	868	868	868	868	
5°	866	864	861	866	865	82
15°	824	825	825	834	832	233
25°	748	752	758	773	776	344
35°	642	650	667	689	694	401
45°	519	531	557	588	595	401
55°	392	404	438	458	456	351
65°	266	275	293	280	269	263
75°	144	151	141	122	115	152
85°	34	29	18	16	16	39
90°	0	0	0	0	0	



TEST NUMBER: P258836

CATALOG NUMBER: 14CZ-LD5-29-S-UNV-L92765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	868.1	868.1	868.1	868.1	868.1
2.5°	869.1	867.0	862.9	868.1	868.1
5°	866.0	863.9	860.8	866.0	864.9
7.5°	859.7	857.6	854.5	860.8	859.7
10°	850.3	849.2	847.1	853.4	852.4
12.5°	839.8	838.8	837.7	844.0	844.0
15°	824.1	825.2	825.2	833.5	832.5
17.5°	809.5	810.5	811.5	822.0	822.0
20°	790.6	791.6	795.8	807.4	808.4
22.5°	770.7	771.8	777.0	790.6	792.7
25°	747.7	751.9	758.1	772.8	775.9
27.5°	724.6	727.8	738.2	755.0	757.1
30°	697.4	703.7	715.2	734.1	738.2
32.5°	670.2	677.5	691.1	712.1	717.3
35°	641.9	650.3	667.0	689.0	694.3
37.5°	612.6	619.9	640.9	663.9	671.2
40°	583.3	590.6	613.6	639.8	648.2
42.5°	551.9	562.3	585.4	614.7	623.1
45°	519.4	530.9	557.1	588.5	594.8
47.5°	485.9	498.4	528.8	560.2	567.6
50°	456.6	468.1	498.4	528.8	534.0
52.5°	425.1	435.6	469.1	494.3	495.3
55°	391.6	404.2	437.7	457.6	455.5
57.5°	361.3	371.7	404.2	414.7	408.4
60°	328.8	338.2	370.7	371.7	362.3
62.5°	297.4	306.8	331.9	324.6	313.1
65°	266.0	275.4	293.2	279.6	269.1
67.5°	235.6	244.0	254.5	236.7	226.2
70°	203.1	214.7	215.7	194.8	184.3
72.5°	174.9	181.2	179.1	159.2	149.7
75°	143.5	150.8	141.4	122.5	115.2
77.5°	114.1	119.4	106.8	89.0	83.8
80°	84.8	88.0	73.3	59.7	56.5
82.5°	57.6	57.6	41.9	32.5	29.3
85°	33.5	29.3	17.8	15.7	15.7
87.5°	11.5	7.3	7.3	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)