

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: P259004

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-29-RDP-UNV-L92765-W2A1-U-2700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1545.0 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

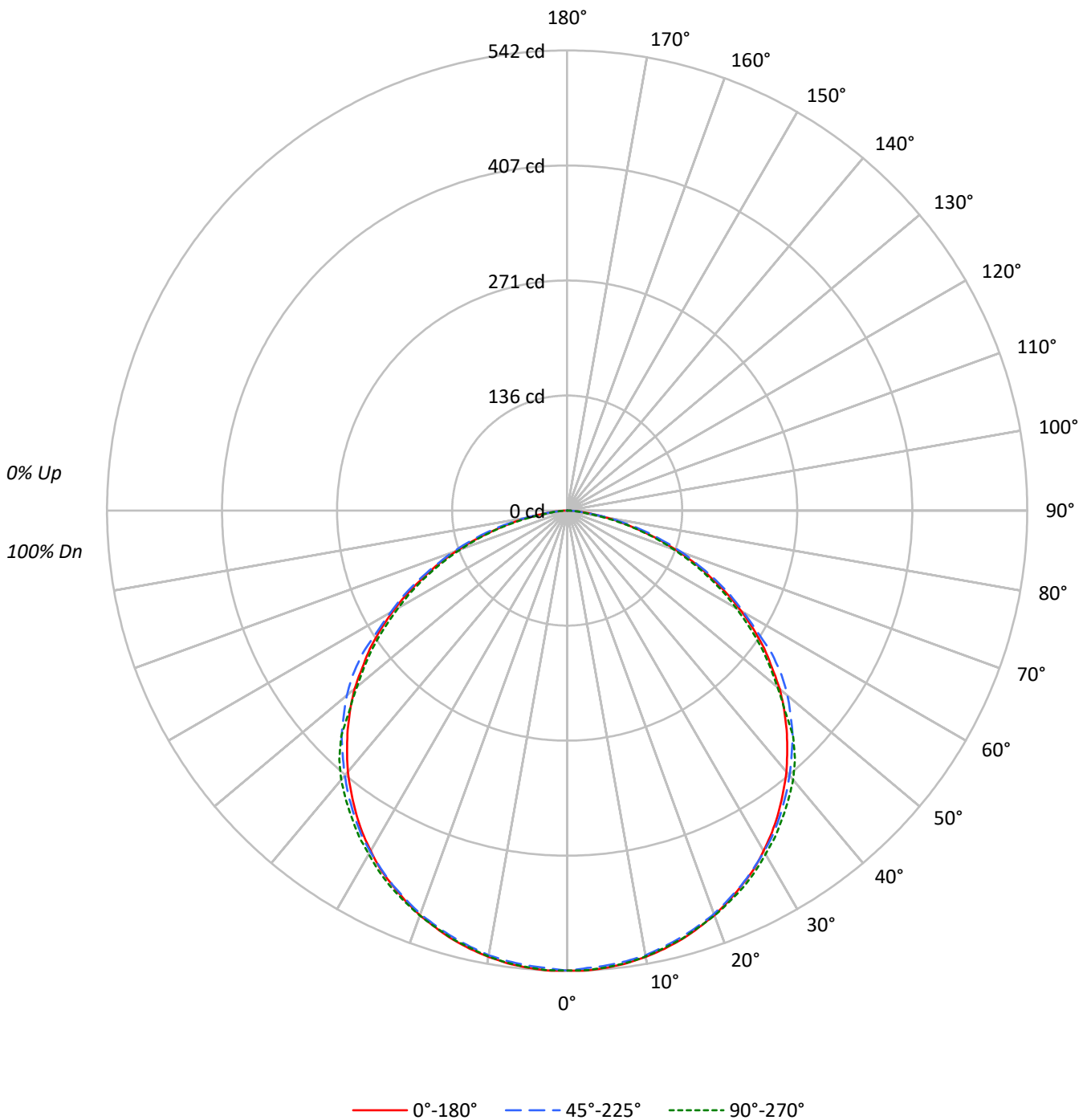
Input Watts (W): 22.041
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259004

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

Luminous Intensity Polar Plot





TEST NUMBER: P259004

CATALOG NUMBER: 14CZ-LD5-29-RDP-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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1458	1458	1458
5°	1459	1453	1458
10°	1459	1453	1457
15°	1456	1449	1455
20°	1452	1448	1454
25°	1446	1444	1455
30°	1438	1441	1452
35°	1426	1438	1452
40°	1411	1431	1454
45°	1391	1430	1432
50°	1368	1419	1353
55°	1330	1382	1304
60°	1274	1293	1236
65°	1193	1225	1161
70°	1086	1129	1050
75°	906	990	890
80°	717	756	617
85°	466	404	358



TEST NUMBER: P259004

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.3	3.3
10°-20°	147.3	9.5
20°-30°	224.9	14.6
30°-40°	274.2	17.7
40°-50°	287.1	18.6
50°-60°	255.4	16.5
60°-70°	188.4	12.2
70°-80°	97.4	6.3
80°-90°	18.9	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°	423.5	27.4
0°-40°	697.7	45.2
0°-60°	1240.3	80.3
0°-90°	1545.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1545.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	542	542	542	542	542	
5°	540	540	538	540	540	51
15°	523	522	520	522	522	148
25°	487	487	486	490	490	225
35°	434	435	438	443	442	272
45°	366	368	376	379	376	282
55°	284	290	295	282	278	253
65°	187	200	192	186	182	186
75°	87	96	95	88	86	94
85°	15	17	13	12	12	20
90°	0	0	0	0	0	



TEST NUMBER: P259004

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	541.8	541.8	541.8	541.8	541.8
2.5°	542.3	541.8	539.3	541.8	541.8
5°	540.3	539.8	537.8	539.8	539.8
7.5°	537.8	537.3	535.3	537.3	537.3
10°	533.8	533.3	531.8	533.8	533.3
12.5°	528.7	528.7	526.2	528.7	527.7
15°	522.7	522.2	520.2	522.2	522.2
17.5°	515.1	514.6	513.1	515.7	514.6
20°	507.1	506.6	505.6	508.1	507.6
22.5°	497.5	497.5	496.0	499.0	499.0
25°	486.9	486.9	486.4	490.0	490.0
27.5°	476.4	475.4	475.4	478.9	479.4
30°	462.8	462.8	463.8	467.8	467.3
32.5°	449.2	449.7	451.7	455.2	455.7
35°	434.1	434.6	437.6	442.6	442.1
37.5°	418.0	419.5	423.0	428.5	428.5
40°	401.8	402.9	407.4	413.4	413.9
42.5°	383.7	386.2	391.3	398.3	397.3
45°	365.6	368.1	375.7	379.2	376.2
47.5°	346.5	349.5	357.0	357.5	347.5
50°	326.8	330.3	338.9	328.8	323.3
52.5°	304.2	310.7	318.3	304.2	300.6
55°	283.5	289.6	294.6	282.0	278.0
57.5°	260.3	268.4	264.9	258.8	253.8
60°	236.7	245.2	240.2	234.2	229.6
62.5°	212.5	222.1	217.0	211.0	207.0
65°	187.3	200.4	192.4	185.8	182.3
67.5°	163.7	176.2	166.7	161.6	158.1
70°	138.0	148.6	143.5	137.0	133.4
72.5°	112.8	120.9	119.3	112.3	109.8
75°	87.1	96.2	95.2	87.6	85.6
77.5°	65.5	74.0	71.0	65.0	62.4
80°	46.3	51.9	48.8	41.8	39.8
82.5°	28.2	32.7	27.7	23.7	21.7
85°	15.1	16.6	13.1	12.1	11.6
87.5°	5.5	5.5	5.5	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)