

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: P259023

Luminaire Tested: **14CZ-LD5-39-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259023
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-LD5-39-RDP-UNV-L92765-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2132.0 lumens
Efficiency: N/A
Efficacy: 69.5 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

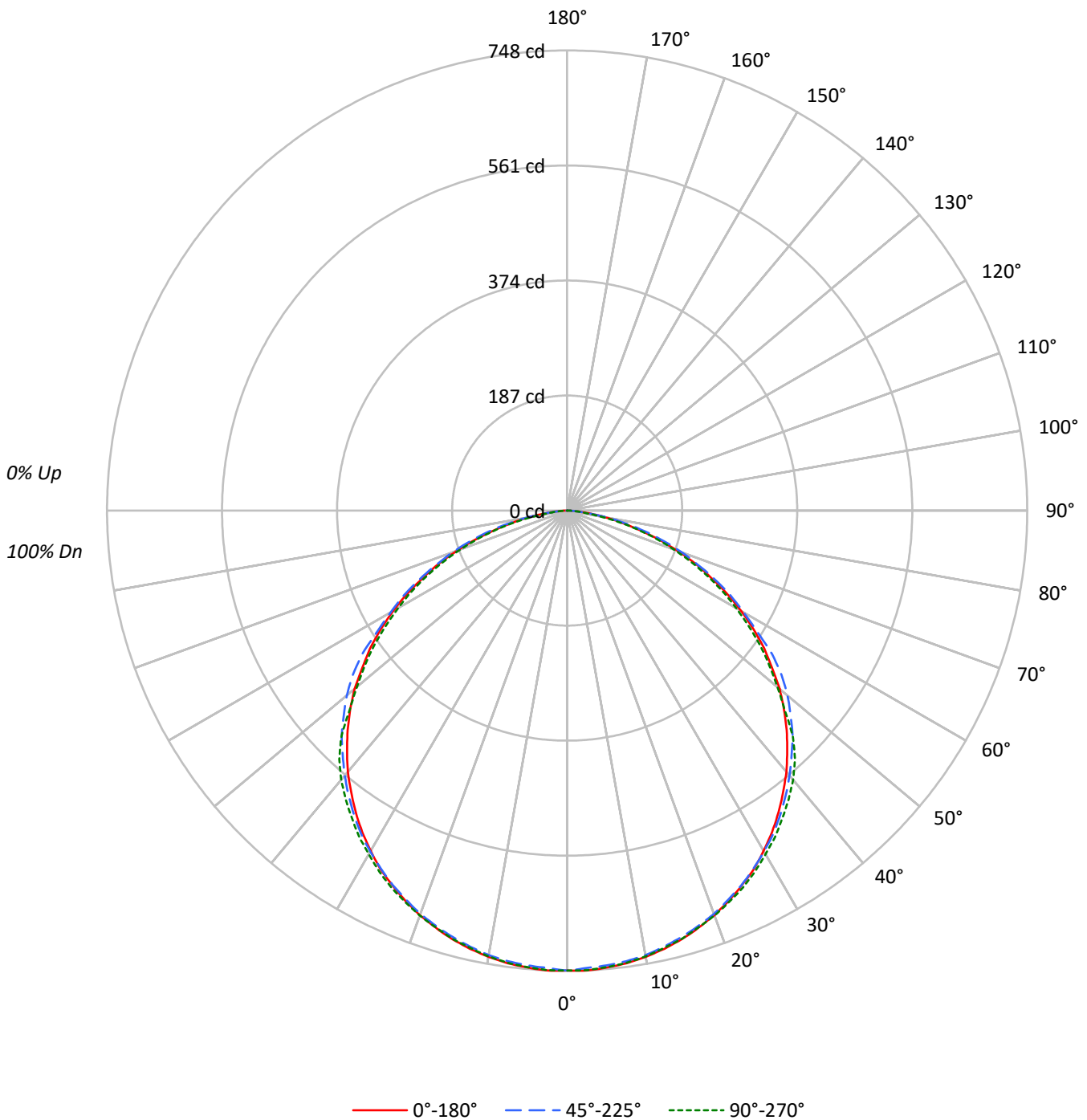
Input Watts (W): 30.69
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2012	2012	2012
5°	2014	2005	2012
10°	2013	2005	2011
15°	2009	2000	2008
20°	2004	1998	2006
25°	1995	1993	2007
30°	1984	1989	2004
35°	1968	1984	2004
40°	1948	1975	2007
45°	1920	1973	1975
50°	1888	1958	1868
55°	1835	1907	1800
60°	1758	1784	1706
65°	1646	1690	1601
70°	1498	1558	1448
75°	1250	1365	1228
80°	990	1044	851
85°	642	559	494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.8	3.3
10°-20°	203.3	9.5
20°-30°	310.3	14.6
30°-40°	378.4	17.7
40°-50°	396.2	18.6
50°-60°	352.5	16.5
60°-70°	260.0	12.2
70°-80°	134.4	6.3
80°-90°	26.1	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°	584.4	27.4
0°-40°	962.8	45.2
0°-60°	1711.5	80.3
0°-90°	2132.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2132.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	748	748	748	748	748	
5°	746	745	742	745	745	71
15°	721	721	718	721	721	204
25°	672	672	671	676	676	310
35°	599	600	604	611	610	375
45°	504	508	518	523	519	389
55°	391	400	406	389	384	349
65°	258	277	265	256	252	256
75°	120	133	131	121	118	130
85°	21	23	18	17	16	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	747.7	747.7	747.7	747.7	747.7
2.5°	748.4	747.7	744.2	747.7	747.7
5°	745.6	744.9	742.1	744.9	744.9
7.5°	742.1	741.4	738.7	741.4	741.4
10°	736.6	735.9	733.8	736.6	735.9
12.5°	729.6	729.6	726.2	729.6	728.2
15°	721.3	720.6	717.8	720.6	720.6
17.5°	710.9	710.2	708.1	711.6	710.2
20°	699.8	699.1	697.7	701.1	700.4
22.5°	686.6	686.6	684.5	688.6	688.6
25°	672.0	672.0	671.3	676.1	676.1
27.5°	657.4	656.0	656.0	660.8	661.5
30°	638.6	638.6	640.0	645.6	644.9
32.5°	619.8	620.5	623.3	628.2	628.9
35°	599.0	599.7	603.9	610.8	610.1
37.5°	576.8	578.8	583.7	591.4	591.4
40°	554.5	555.9	562.2	570.5	571.2
42.5°	529.5	533.0	539.9	549.7	548.3
45°	504.5	508.0	518.4	523.3	519.1
47.5°	478.1	482.3	492.7	493.4	479.5
50°	451.0	455.8	467.7	453.8	446.1
52.5°	419.7	428.7	439.2	419.7	414.8
55°	391.2	399.6	406.5	389.1	383.6
57.5°	359.3	370.4	365.5	357.2	350.2
60°	326.6	338.4	331.5	323.1	316.9
62.5°	293.2	306.4	299.5	291.2	285.6
65°	258.5	276.6	265.4	256.4	251.5
67.5°	225.8	243.2	230.0	223.1	218.2
70°	190.4	205.0	198.0	189.0	184.1
72.5°	155.7	166.8	164.7	155.0	151.5
75°	120.2	132.7	131.3	120.9	118.1
77.5°	90.3	102.1	98.0	89.6	86.2
80°	63.9	71.6	67.4	57.7	54.9
82.5°	38.9	45.2	38.2	32.7	29.9
85°	20.8	22.9	18.1	16.7	16.0
87.5°	7.6	7.6	7.6	6.9	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)