

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: P258598

Luminaire Tested: **14CZ-LD5-20-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-20-UNV-L82765-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2059.0 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

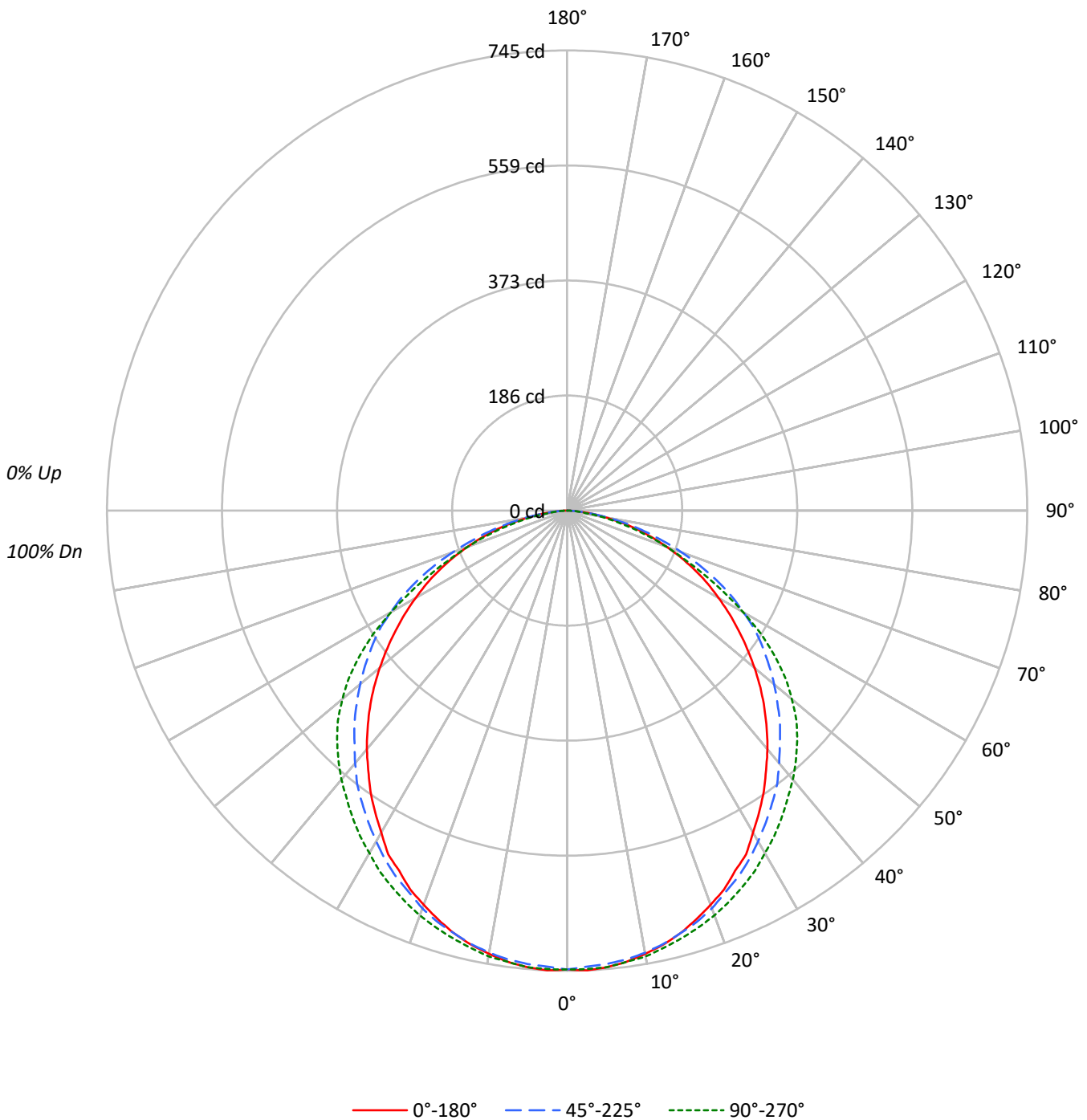
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1999	1999	1999
5°	2004	1991	2004
10°	1991	1986	2003
15°	1974	1974	1996
20°	1945	1962	1997
25°	1911	1944	1995
30°	1870	1921	1990
35°	1824	1901	1991
40°	1772	1875	1997
45°	1719	1854	2005
50°	1657	1832	1989
55°	1590	1814	1924
60°	1524	1776	1770
65°	1454	1700	1551
70°	1349	1549	1341
75°	1224	1351	1108
80°	975	1069	818
85°	689	596	469



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	3.4
10°-20°	200.8	9.8
20°-30°	302.8	14.7
30°-40°	363.0	17.6
40°-50°	376.7	18.3
50°-60°	339.8	16.5
60°-70°	247.8	12.0
70°-80°	130.0	6.3
80°-90°	27.7	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°	574.0	27.9
0°-40°	936.9	45.5
0°-60°	1653.4	80.3
0°-90°	2059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2059.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	743	743	743	743	743	
5°	742	740	737	742	742	70
15°	708	708	708	717	717	200
25°	644	647	655	669	672	297
35°	555	561	579	600	606	347
45°	452	461	487	517	527	348
55°	339	351	387	412	410	304
65°	228	242	267	257	244	226
75°	118	134	130	113	107	123
85°	22	27	19	16	15	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	743.0	743.0	743.0	743.0	743.0
2.5°	745.1	743.0	739.0	743.0	743.0
5°	742.0	740.0	736.9	742.0	742.0
7.5°	736.9	734.9	732.9	738.0	736.9
10°	728.8	727.8	726.8	732.9	732.9
12.5°	719.7	719.7	718.7	725.8	724.8
15°	708.5	708.5	708.5	716.6	716.6
17.5°	694.3	696.3	698.4	707.5	707.5
20°	679.1	681.1	685.2	696.3	697.4
22.5°	663.9	664.9	668.9	682.1	685.2
25°	643.6	646.6	654.7	668.9	672.0
27.5°	627.3	628.3	637.5	653.7	657.8
30°	601.9	609.0	618.2	636.5	640.5
32.5°	578.6	584.7	598.9	618.2	624.3
35°	555.2	561.3	578.6	599.9	606.0
37.5°	528.9	538.0	558.3	579.6	586.7
40°	504.5	512.6	533.9	560.3	568.4
42.5°	478.1	486.2	509.6	539.0	548.1
45°	451.7	460.8	487.2	516.7	526.8
47.5°	424.3	434.5	461.9	494.3	503.5
50°	395.9	407.0	437.5	471.0	475.1
52.5°	367.5	379.6	412.1	441.6	445.6
55°	339.0	351.2	386.7	412.1	410.1
57.5°	311.6	324.8	361.4	374.6	372.5
60°	283.2	297.4	329.9	336.0	328.9
62.5°	256.8	270.0	300.5	295.4	286.3
65°	228.4	241.6	267.0	256.8	243.6
67.5°	200.0	216.2	232.5	215.2	205.0
70°	171.5	189.8	196.9	179.7	170.5
72.5°	144.1	163.4	161.4	144.1	138.1
75°	117.7	134.0	129.9	112.7	106.6
77.5°	89.3	107.6	98.5	84.3	79.2
80°	62.9	79.2	69.0	56.8	52.8
82.5°	41.6	52.8	42.6	33.5	30.5
85°	22.3	27.4	19.3	16.2	15.2
87.5°	9.1	8.1	7.1	7.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)