

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: P258765

Luminaire Tested: **14CZ-LD5-20-S-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258765
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-LD5-20-S-UNV-L82765-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2030.0 lumens
Efficiency: N/A
Efficacy: 133.1 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

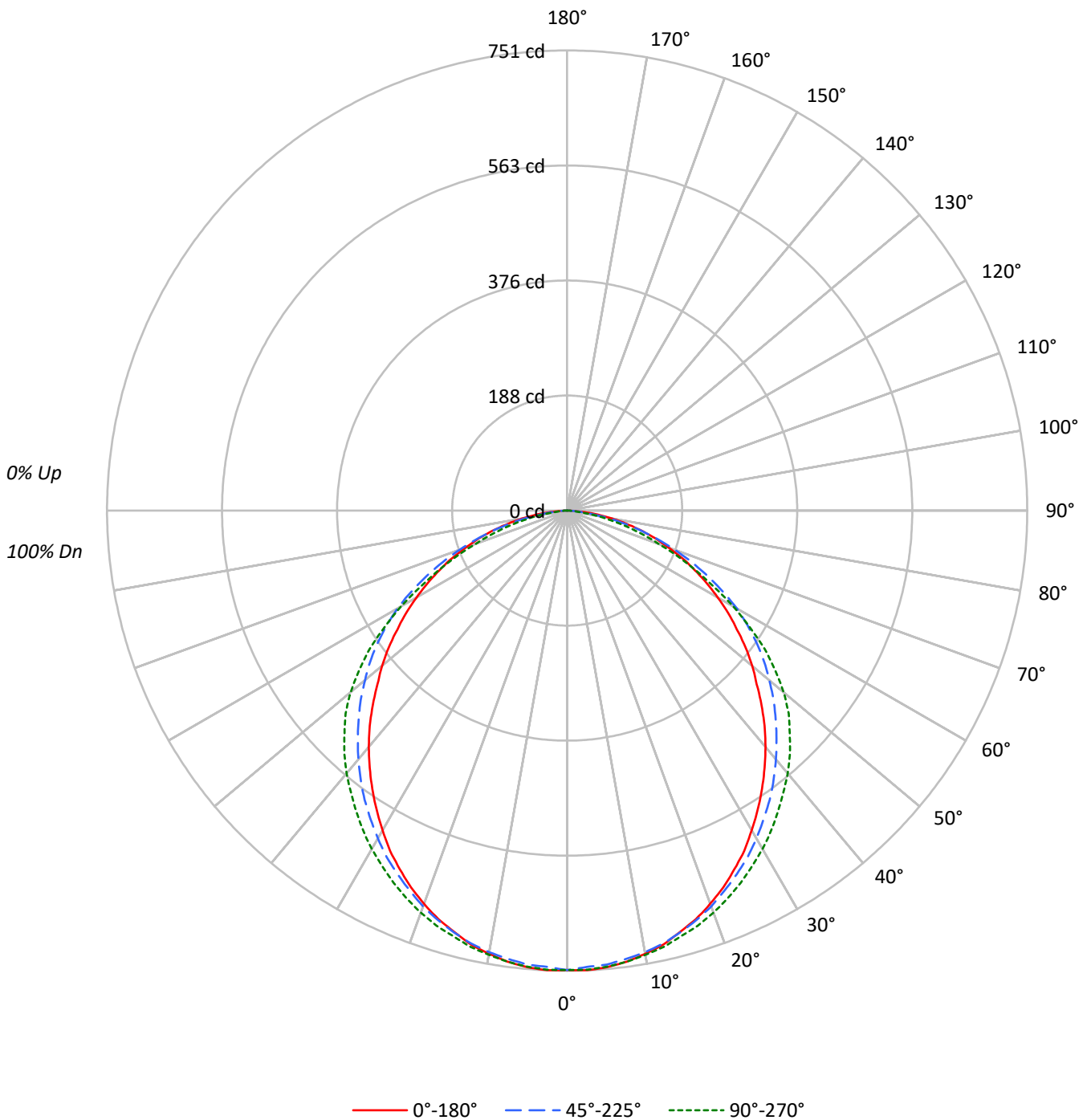
Input Watts (W): 15.252
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2018	2018	2018
5°	2021	2009	2018
10°	2007	2000	2012
15°	1983	1986	2003
20°	1956	1969	2000
25°	1918	1945	1990
30°	1872	1920	1982
35°	1822	1893	1970
40°	1770	1862	1967
45°	1708	1831	1955
50°	1651	1803	1931
55°	1587	1774	1846
60°	1528	1723	1685
65°	1463	1613	1480
70°	1381	1466	1253
75°	1288	1269	1035
80°	1136	981	756
85°	892	475	420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.9	3.5
10°-20°	201.9	9.9
20°-30°	302.9	14.9
30°-40°	361.2	17.8
40°-50°	372.0	18.3
50°-60°	331.5	16.3
60°-70°	238.9	11.8
70°-80°	124.9	6.2
80°-90°	25.8	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°	575.7	28.4
0°-40°	936.8	46.1
0°-60°	1640.4	80.8
0°-90°	2030.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2030.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	750	750	750	750	750	
5°	748	746	744	748	747	71
15°	712	713	713	720	719	201
25°	646	650	655	668	670	298
35°	554	562	576	595	600	347
45°	449	459	481	508	514	346
55°	338	349	378	395	394	303
65°	230	238	253	242	232	228
75°	124	130	122	106	100	131
85°	29	25	15	14	14	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	749.9	749.9	749.9	749.9	749.9
2.5°	750.8	749.0	745.4	749.9	749.9
5°	748.1	746.3	743.6	748.1	747.2
7.5°	742.6	740.8	738.1	743.6	742.6
10°	734.5	733.6	731.8	737.2	736.3
12.5°	725.5	724.6	723.7	729.1	729.1
15°	711.9	712.8	712.8	720.0	719.1
17.5°	699.2	700.1	701.0	710.1	710.1
20°	682.9	683.8	687.5	697.4	698.3
22.5°	665.8	666.7	671.2	682.9	684.8
25°	645.9	649.5	654.9	667.6	670.3
27.5°	626.0	628.7	637.7	652.2	654.0
30°	602.4	607.9	617.8	634.1	637.7
32.5°	578.9	585.3	597.0	615.1	619.6
35°	554.5	561.7	576.2	595.2	599.7
37.5°	529.2	535.5	553.6	573.5	579.8
40°	503.8	510.2	530.1	552.7	559.9
42.5°	476.7	485.8	505.7	531.0	538.2
45°	448.7	458.6	481.2	508.4	513.8
47.5°	419.7	430.6	456.8	483.9	490.3
50°	394.4	404.3	430.6	456.8	461.3
52.5°	367.3	376.3	405.2	427.0	427.9
55°	338.3	349.2	378.1	395.3	393.5
57.5°	312.1	321.1	349.2	358.2	352.8
60°	284.0	292.2	320.2	321.1	313.0
62.5°	256.9	265.0	286.7	280.4	270.5
65°	229.8	237.9	253.3	241.5	232.5
67.5°	203.5	210.8	219.8	204.4	195.4
70°	175.5	185.4	186.3	168.2	159.2
72.5°	151.1	156.5	154.7	137.5	129.4
75°	123.9	130.3	122.1	105.8	99.5
77.5°	98.6	103.1	92.3	76.9	72.4
80°	73.3	76.0	63.3	51.6	48.8
82.5°	49.8	49.8	36.2	28.0	25.3
85°	28.9	25.3	15.4	13.6	13.6
87.5°	10.0	6.3	6.3	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)