

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: P258601

Luminaire Tested: **14CZ-LD5-20-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258601
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-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2171.0 lumens
Efficiency: N/A
Efficacy: 138.1 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

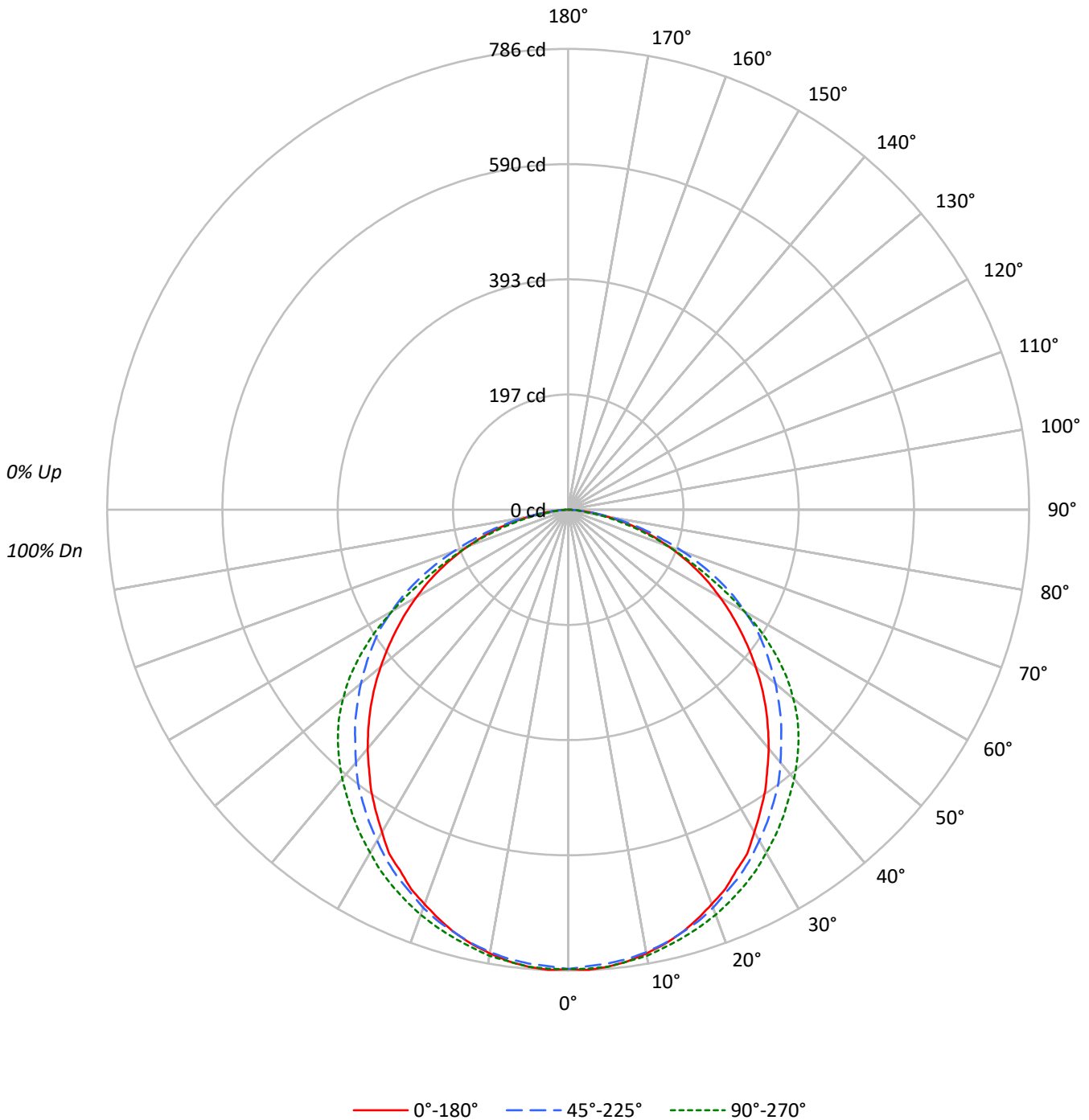
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2108	2108	2108
5°	2113	2099	2113
10°	2100	2094	2111
15°	2081	2081	2105
20°	2050	2069	2106
25°	2015	2050	2104
30°	1972	2025	2099
35°	1923	2004	2099
40°	1868	1978	2106
45°	1813	1955	2114
50°	1747	1931	2097
55°	1677	1913	2029
60°	1607	1872	1866
65°	1533	1792	1636
70°	1423	1633	1415
75°	1291	1424	1169
80°	1029	1128	863
85°	726	627	497



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	3.4
10°-20°	211.8	9.8
20°-30°	319.3	14.7
30°-40°	382.7	17.6
40°-50°	397.2	18.3
50°-60°	358.2	16.5
60°-70°	261.3	12.0
70°-80°	137.1	6.3
80°-90°	29.2	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°	605.2	27.9
0°-40°	987.9	45.5
0°-60°	1743.3	80.3
0°-90°	2171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2171.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	784	784	784	784	784	
5°	782	780	777	782	782	74
15°	747	747	747	756	756	210
25°	679	682	690	705	708	313
35°	585	592	610	632	639	366
45°	476	486	514	545	556	367
55°	358	370	408	434	432	320
65°	241	255	282	271	257	238
75°	124	141	137	119	112	130
85°	24	29	20	17	16	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	783.5	783.5	783.5	783.5	783.5
2.5°	785.6	783.5	779.2	783.5	783.5
5°	782.4	780.2	777.0	782.4	782.4
7.5°	777.0	774.9	772.7	778.1	777.0
10°	768.5	767.4	766.3	772.7	772.7
12.5°	758.8	758.8	757.8	765.3	764.2
15°	747.1	747.1	747.1	755.6	755.6
17.5°	732.1	734.2	736.4	746.0	746.0
20°	716.0	718.2	722.4	734.2	735.3
22.5°	700.0	701.0	705.3	719.2	722.4
25°	678.6	681.8	690.3	705.3	708.5
27.5°	661.4	662.5	672.1	689.3	693.5
30°	634.7	642.2	651.8	671.1	675.4
32.5°	610.1	616.5	631.5	651.8	658.2
35°	585.4	591.9	610.1	632.5	639.0
37.5°	557.6	567.3	588.7	611.1	618.6
40°	531.9	540.5	563.0	590.8	599.4
42.5°	504.1	512.7	537.3	568.3	578.0
45°	476.3	485.9	513.7	544.8	555.5
47.5°	447.4	458.1	487.0	521.2	530.9
50°	417.4	429.2	461.3	496.6	500.9
52.5°	387.4	400.3	434.5	465.6	469.9
55°	357.5	370.3	407.8	434.5	432.4
57.5°	328.6	342.5	381.0	394.9	392.8
60°	298.6	313.6	347.8	354.3	346.8
62.5°	270.8	284.7	316.8	311.5	301.8
65°	240.8	254.7	281.5	270.8	256.9
67.5°	210.8	228.0	245.1	226.9	216.2
70°	180.9	200.1	207.6	189.4	179.8
72.5°	152.0	172.3	170.2	152.0	145.6
75°	124.2	141.3	137.0	118.8	112.4
77.5°	94.2	113.5	103.8	88.8	83.5
80°	66.4	83.5	72.8	59.9	55.7
82.5°	43.9	55.7	45.0	35.3	32.1
85°	23.5	28.9	20.3	17.1	16.1
87.5°	9.6	8.6	7.5	7.5	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)