

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: P258664

Luminaire Tested: **14CZ-LD5-25-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258664
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-LD5-25-UNV-L92765-W2A1-U-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2274.0 lumens
Efficiency: N/A
Efficacy: 121.6 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

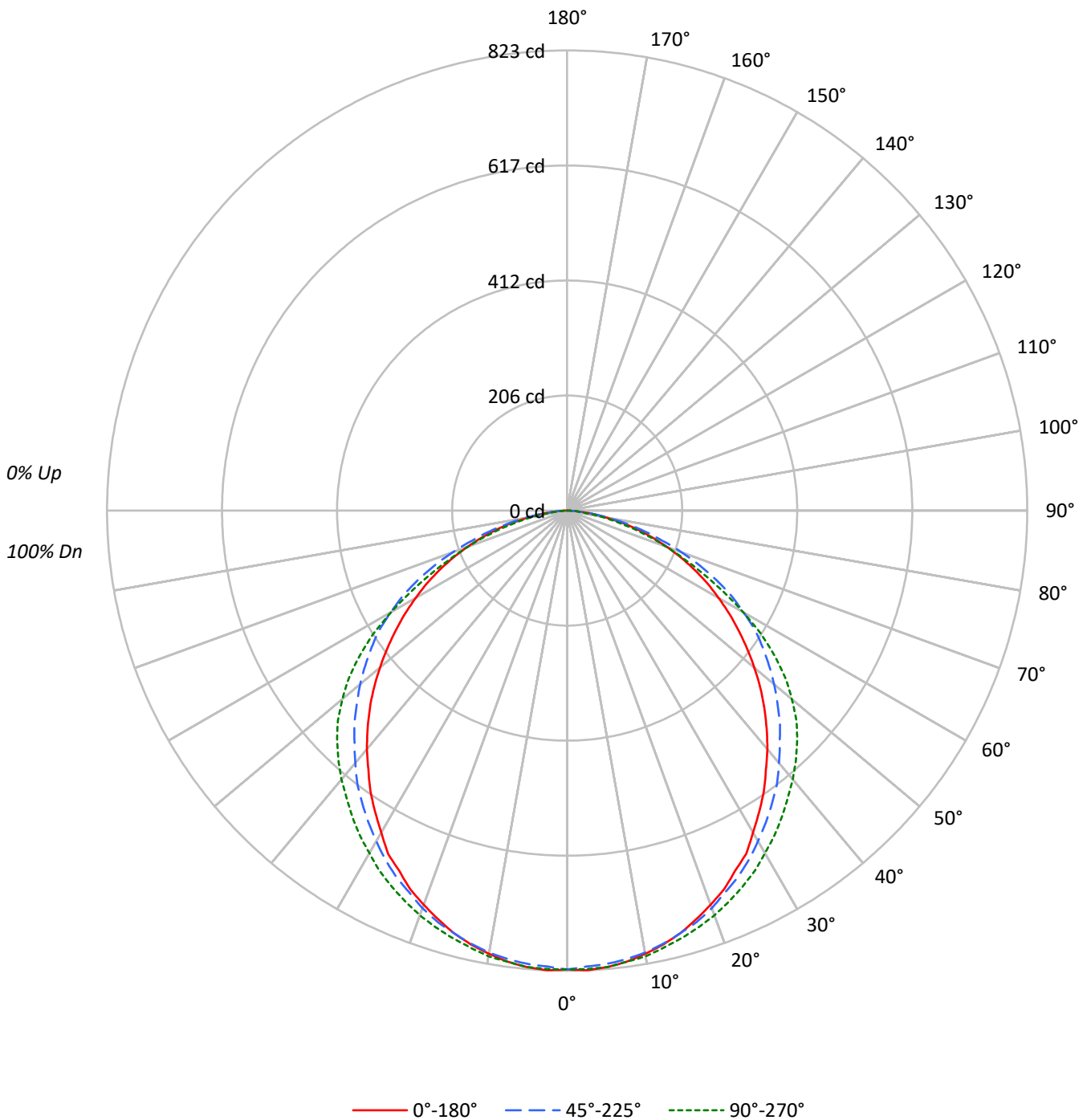
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70					70			
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59					59			
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34					34			
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30					30			
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2208	2208	2208
5°	2214	2199	2214
10°	2199	2193	2212
15°	2180	2180	2205
20°	2148	2167	2206
25°	2110	2147	2203
30°	2066	2121	2198
35°	2014	2099	2199
40°	1957	2072	2205
45°	1899	2048	2214
50°	1830	2023	2197
55°	1757	2004	2125
60°	1683	1961	1955
65°	1606	1877	1713
70°	1491	1711	1482
75°	1352	1492	1224
80°	1077	1181	903
85°	763	658	519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.6	3.4
10°-20°	221.8	9.8
20°-30°	334.4	14.7
30°-40°	400.9	17.6
40°-50°	416.0	18.3
50°-60°	375.2	16.5
60°-70°	273.7	12.0
70°-80°	143.6	6.3
80°-90°	30.6	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°	633.9	27.9
0°-40°	1034.8	45.5
0°-60°	1826.0	80.3
0°-90°	2274.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2274.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	821	821	821	821	821	
5°	820	817	814	820	820	78
15°	782	782	782	792	792	220
25°	711	714	723	739	742	328
35°	613	620	639	663	669	383
45°	499	509	538	571	582	385
55°	374	388	427	455	453	335
65°	252	267	295	284	269	249
75°	130	148	144	124	118	136
85°	25	30	21	18	17	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	820.6	820.6	820.6	820.6	820.6
2.5°	822.9	820.6	816.1	820.6	820.6
5°	819.5	817.3	813.9	819.5	819.5
7.5°	813.9	811.7	809.4	815.0	813.9
10°	804.9	803.8	802.7	809.4	809.4
12.5°	794.8	794.8	793.7	801.6	800.4
15°	782.5	782.5	782.5	791.5	791.5
17.5°	766.8	769.1	771.3	781.4	781.4
20°	750.0	752.2	756.7	769.1	770.2
22.5°	733.2	734.3	738.8	753.4	756.7
25°	710.8	714.1	723.1	738.8	742.1
27.5°	692.8	693.9	704.0	722.0	726.5
30°	664.8	672.6	682.7	702.9	707.4
32.5°	639.0	645.7	661.4	682.7	689.5
35°	613.2	620.0	639.0	662.6	669.3
37.5°	584.1	594.2	616.6	640.1	648.0
40°	557.2	566.1	589.7	618.8	627.8
42.5°	528.0	537.0	562.8	595.3	605.4
45°	498.9	509.0	538.1	570.6	581.8
47.5°	468.6	479.8	510.1	546.0	556.1
50°	437.2	449.5	483.2	520.2	524.7
52.5°	405.8	419.3	455.2	487.7	492.1
55°	374.4	387.9	427.1	455.2	452.9
57.5°	344.2	358.7	399.1	413.7	411.4
60°	312.8	328.5	364.3	371.1	363.2
62.5°	283.6	298.2	331.8	326.2	316.1
65°	252.2	266.8	294.8	283.6	269.1
67.5°	220.9	238.8	256.7	237.7	226.5
70°	189.5	209.6	217.5	198.4	188.3
72.5°	159.2	180.5	178.2	159.2	152.5
75°	130.0	148.0	143.5	124.4	117.7
77.5°	98.7	118.8	108.7	93.0	87.4
80°	69.5	87.4	76.2	62.8	58.3
82.5°	46.0	58.3	47.1	37.0	33.6
85°	24.7	30.3	21.3	17.9	16.8
87.5°	10.1	9.0	7.8	7.8	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)