

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: P258772

Luminaire Tested: **14CZ-LD5-20-S-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258772
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-6500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2247.0 lumens
Efficiency: N/A
Efficacy: 140.5 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

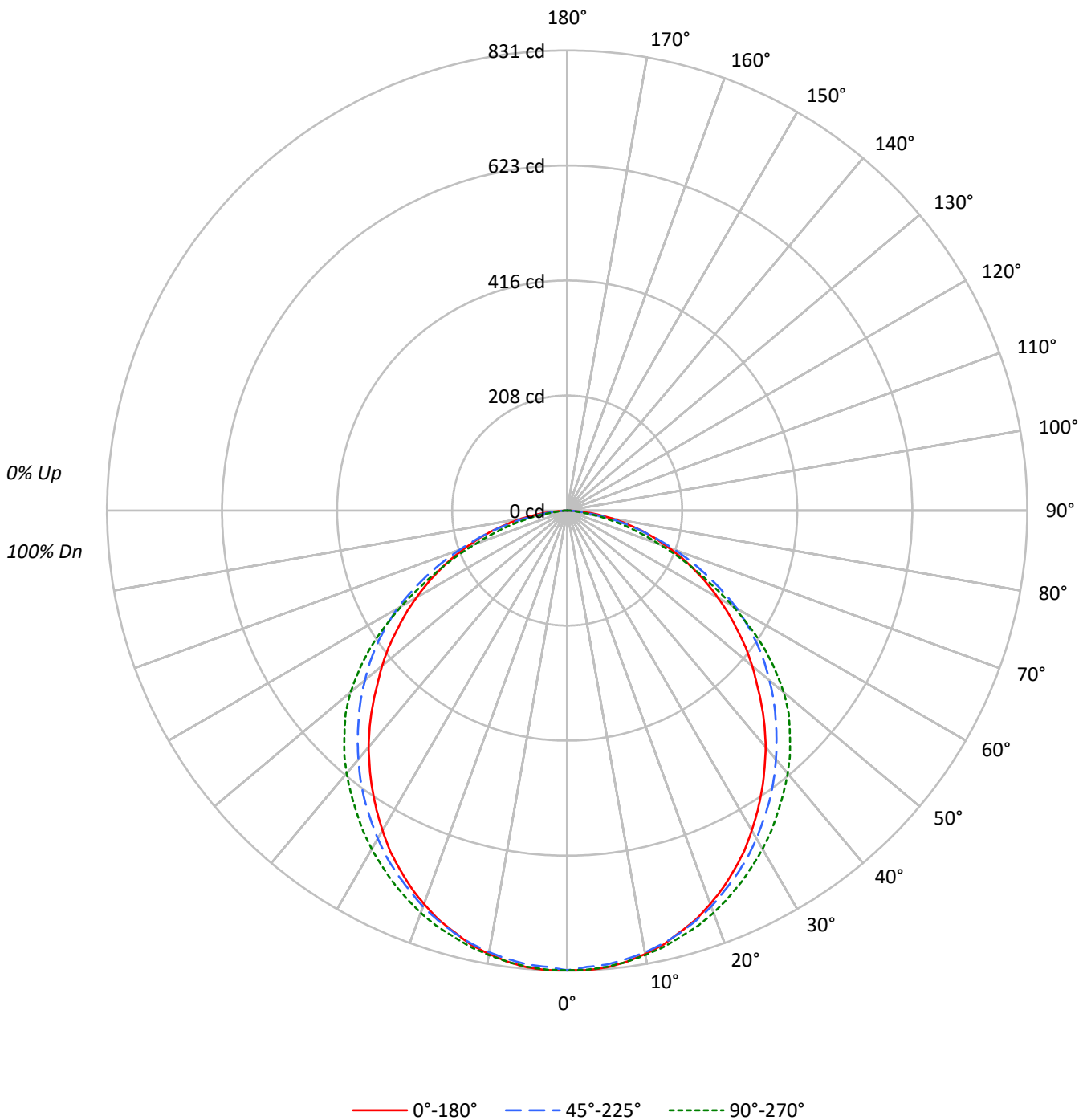
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2234	2234	2234
5°	2237	2223	2234
10°	2222	2213	2227
15°	2195	2198	2218
20°	2165	2179	2214
25°	2123	2152	2203
30°	2072	2125	2193
35°	2016	2095	2181
40°	1959	2061	2177
45°	1890	2027	2164
50°	1827	1995	2138
55°	1757	1963	2043
60°	1692	1907	1864
65°	1619	1785	1638
70°	1528	1623	1386
75°	1426	1406	1145
80°	1257	1086	838
85°	988	525	463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.4	3.5
10°-20°	223.4	9.9
20°-30°	335.3	14.9
30°-40°	399.8	17.8
40°-50°	411.8	18.3
50°-60°	367.0	16.3
60°-70°	264.4	11.8
70°-80°	138.3	6.2
80°-90°	28.6	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°	637.2	28.4
0°-40°	1037.0	46.1
0°-60°	1815.7	80.8
0°-90°	2247.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2247.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	830	830	830	830	830	
5°	828	826	823	828	827	79
15°	788	789	789	797	796	222
25°	715	719	725	739	742	329
35°	614	622	638	659	664	384
45°	497	508	533	563	569	383
55°	374	386	418	438	436	336
65°	254	263	280	267	257	252
75°	137	144	135	117	110	145
85°	32	28	17	15	15	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	830.0	830.0	830.0	830.0	830.0
2.5°	831.0	829.0	825.0	830.0	830.0
5°	828.0	826.0	823.0	828.0	827.0
7.5°	822.0	820.0	817.0	823.0	822.0
10°	813.0	812.0	810.0	816.0	815.0
12.5°	803.0	802.0	801.0	807.0	807.0
15°	788.0	789.0	789.0	797.0	796.0
17.5°	774.0	775.0	776.0	786.0	786.0
20°	755.9	757.0	761.0	772.0	773.0
22.5°	736.9	737.9	742.9	755.9	758.0
25°	714.9	718.9	724.9	738.9	741.9
27.5°	692.9	695.9	705.9	721.9	723.9
30°	666.8	672.8	683.9	701.9	705.9
32.5°	640.8	647.8	660.8	680.9	685.9
35°	613.8	621.8	637.8	658.8	663.8
37.5°	585.7	592.7	612.8	634.8	641.8
40°	557.7	564.7	586.7	611.8	619.8
42.5°	527.7	537.7	559.7	587.7	595.7
45°	496.6	507.6	532.7	562.7	568.7
47.5°	464.6	476.6	505.6	535.7	542.7
50°	436.5	447.6	476.6	505.6	510.6
52.5°	406.5	416.5	448.6	472.6	473.6
55°	374.5	386.5	418.5	437.5	435.5
57.5°	345.4	355.4	386.5	396.5	390.5
60°	314.4	323.4	354.4	355.4	346.4
62.5°	284.4	293.4	317.4	310.4	299.4
65°	254.3	263.3	280.4	267.3	257.3
67.5°	225.3	233.3	243.3	226.3	216.3
70°	194.2	205.3	206.3	186.2	176.2
72.5°	167.2	173.2	171.2	152.2	143.2
75°	137.2	144.2	135.2	117.1	110.1
77.5°	109.1	114.1	102.1	85.1	80.1
80°	81.1	84.1	70.1	57.1	54.1
82.5°	55.1	55.1	40.1	31.0	28.0
85°	32.0	28.0	17.0	15.0	15.0
87.5°	11.0	7.0	7.0	7.0	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)