

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: P258773

Luminaire Tested: **14CZ-LD5-25-S-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258773
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-LD5-25-S-UNV-L82765-W2A1-U-2700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2302.0 lumens
Efficiency: N/A
Efficacy: 126.3 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

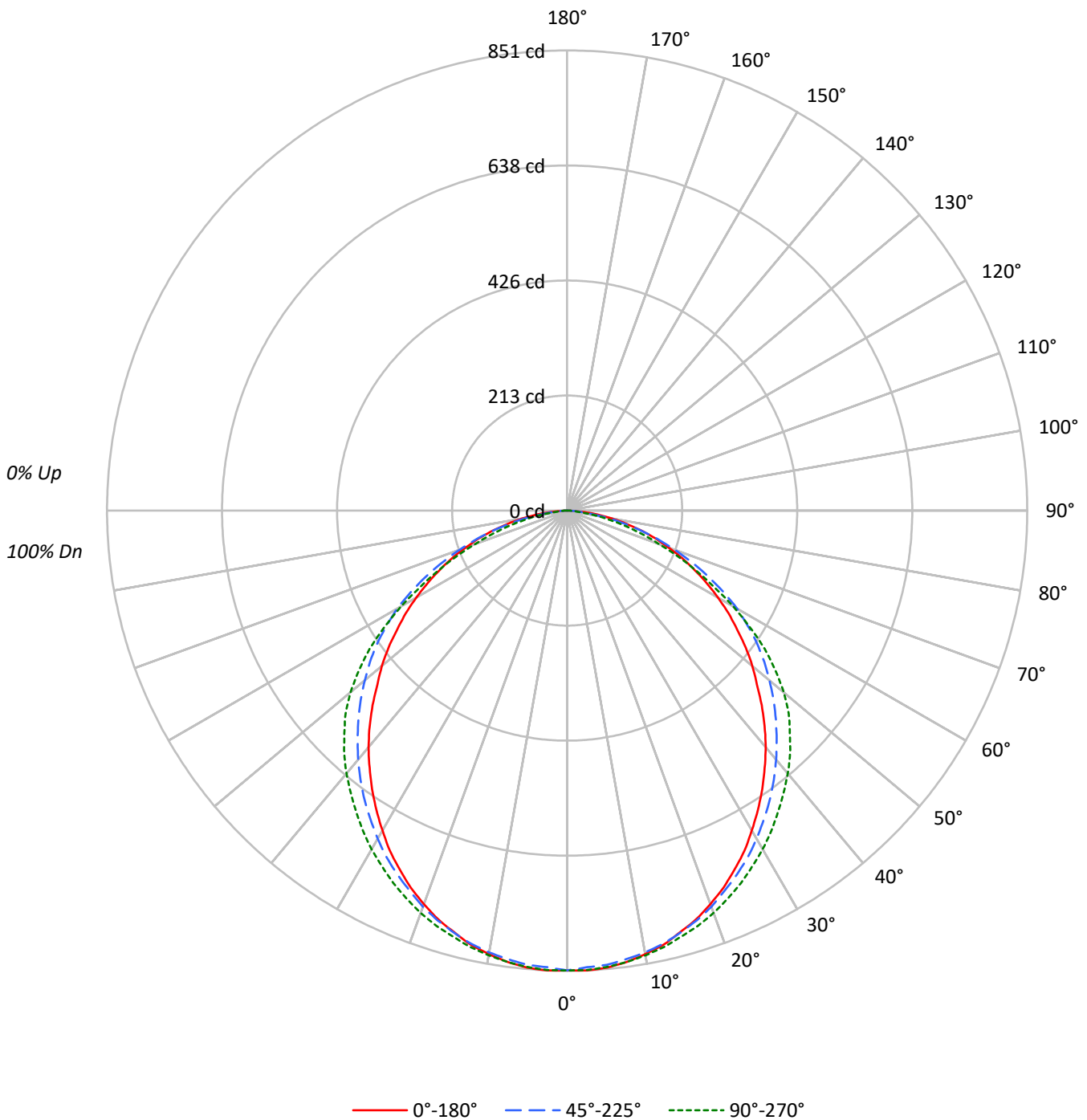
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2288	2288	2288
5°	2291	2278	2289
10°	2276	2267	2282
15°	2249	2252	2272
20°	2218	2233	2268
25°	2175	2205	2257
30°	2123	2177	2247
35°	2066	2146	2234
40°	2007	2112	2230
45°	1936	2077	2217
50°	1872	2044	2190
55°	1800	2012	2093
60°	1734	1954	1910
65°	1659	1829	1678
70°	1566	1662	1420
75°	1461	1440	1173
80°	1288	1113	859
85°	1013	537	475



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	3.5
10°-20°	228.9	9.9
20°-30°	343.5	14.9
30°-40°	409.6	17.8
40°-50°	421.9	18.3
50°-60°	375.9	16.3
60°-70°	270.9	11.8
70°-80°	141.7	6.2
80°-90°	29.3	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°	652.8	28.4
0°-40°	1062.3	46.1
0°-60°	1860.1	80.8
0°-90°	2302.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2302.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	850	850	850	850	850	
5°	848	846	843	848	847	80
15°	807	808	808	816	816	228
25°	732	736	743	757	760	337
35°	629	637	653	675	680	393
45°	509	520	546	576	583	393
55°	384	396	429	448	446	344
65°	260	270	287	274	264	258
75°	140	148	138	120	113	149
85°	33	29	17	15	15	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	850.4	850.4	850.4	850.4	850.4
2.5°	851.4	849.3	845.2	850.4	850.4
5°	848.3	846.3	843.2	848.3	847.3
7.5°	842.2	840.1	837.0	843.2	842.2
10°	832.9	831.9	829.8	836.0	835.0
12.5°	822.7	821.6	820.6	826.8	826.8
15°	807.3	808.3	808.3	816.5	815.5
17.5°	792.9	793.9	795.0	805.2	805.2
20°	774.5	775.5	779.6	790.9	791.9
22.5°	755.0	756.0	761.1	774.5	776.5
25°	732.4	736.5	742.7	757.0	760.1
27.5°	709.8	712.9	723.2	739.6	741.6
30°	683.2	689.3	700.6	719.1	723.2
32.5°	656.5	663.7	677.0	697.5	702.6
35°	628.8	637.0	653.4	675.0	680.1
37.5°	600.1	607.3	627.8	650.3	657.5
40°	571.4	578.5	601.1	626.7	634.9
42.5°	540.6	550.8	573.4	602.1	610.3
45°	508.8	520.1	545.7	576.5	582.6
47.5°	476.0	488.3	518.0	548.8	556.0
50°	447.2	458.5	488.3	518.0	523.1
52.5°	416.5	426.7	459.5	484.2	485.2
55°	383.6	395.9	428.8	448.3	446.2
57.5°	353.9	364.1	395.9	406.2	400.0
60°	322.1	331.3	363.1	364.1	354.9
62.5°	291.3	300.5	325.2	318.0	306.7
65°	260.5	269.8	287.2	273.9	263.6
67.5°	230.8	239.0	249.3	231.8	221.6
70°	199.0	210.3	211.3	190.8	180.5
72.5°	171.3	177.5	175.4	155.9	146.7
75°	140.5	147.7	138.5	120.0	112.8
77.5°	111.8	116.9	104.6	87.2	82.1
80°	83.1	86.2	71.8	58.5	55.4
82.5°	56.4	56.4	41.0	31.8	28.7
85°	32.8	28.7	17.4	15.4	15.4
87.5°	11.3	7.2	7.2	7.2	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)