

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: P258825

Luminaire Tested: **14CZ-LD5-20-S-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258825
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-L92765-W2A1-U-5700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2027.0 lumens
Efficiency: N/A
Efficacy: 128.2 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

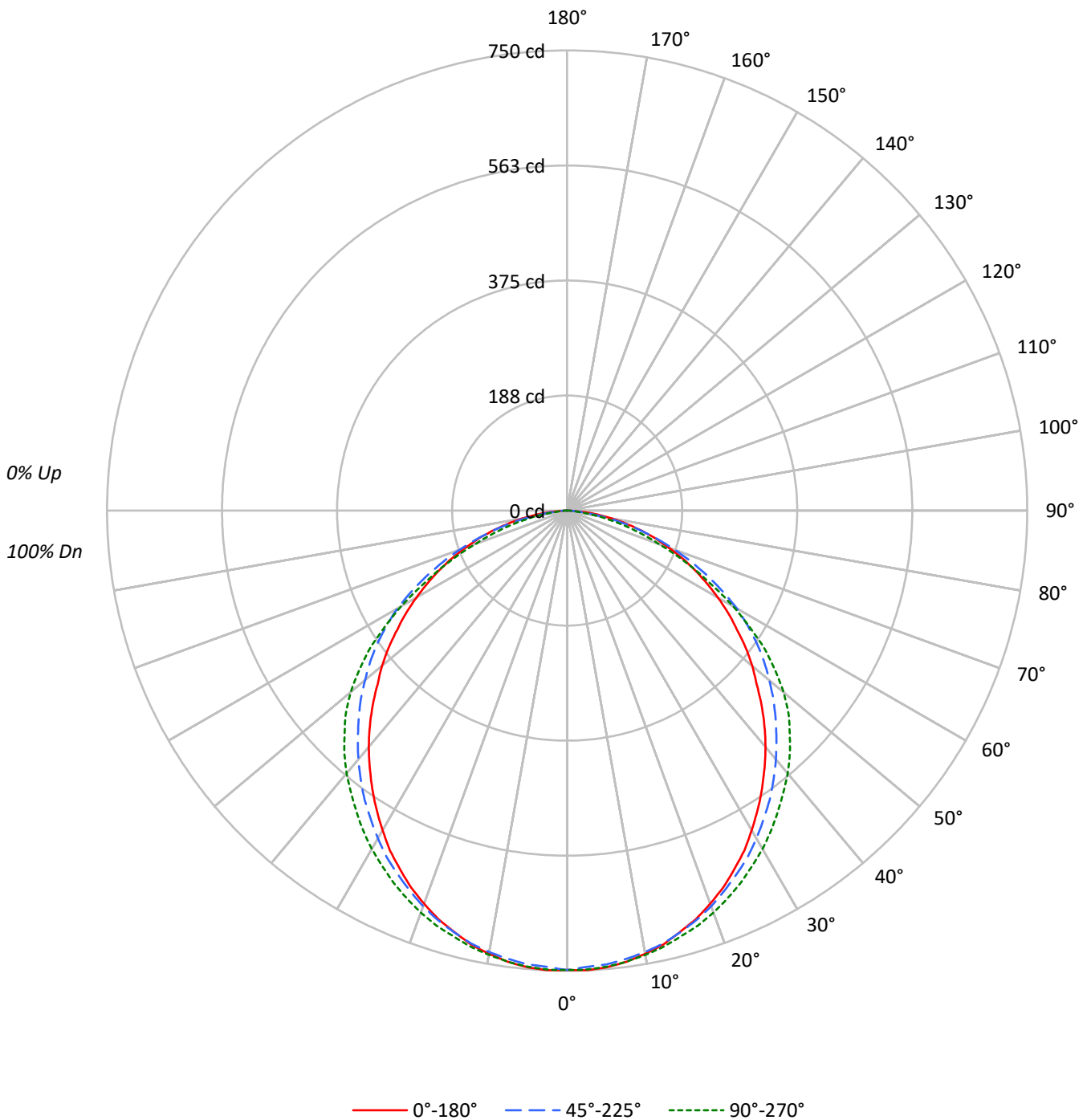
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2015	2015	2015
5°	2018	2006	2015
10°	2004	1997	2009
15°	1980	1983	2001
20°	1953	1966	1997
25°	1915	1942	1987
30°	1869	1917	1979
35°	1819	1890	1967
40°	1767	1859	1964
45°	1705	1829	1952
50°	1649	1800	1928
55°	1585	1771	1843
60°	1526	1721	1682
65°	1461	1610	1478
70°	1378	1464	1251
75°	1286	1267	1033
80°	1134	979	756
85°	892	475	417



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	3.5
10°-20°	201.6	9.9
20°-30°	302.5	14.9
30°-40°	360.6	17.8
40°-50°	371.4	18.3
50°-60°	331.0	16.3
60°-70°	238.5	11.8
70°-80°	124.8	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°	574.8	28.4
0°-40°	935.4	46.1
0°-60°	1637.9	80.8
0°-90°	2027.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2027.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	749	749	749	749	749	
5°	747	745	742	747	746	71
15°	711	712	712	719	718	201
25°	645	648	654	667	669	297
35°	554	561	575	594	599	346
45°	448	458	480	508	513	346
55°	338	349	378	395	393	303
65°	229	238	253	241	232	227
75°	124	130	122	106	99	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°	748.8	748.8	748.8	748.8	748.8
2.5°	749.7	747.9	744.3	748.8	748.8
5°	747.0	745.2	742.5	747.0	746.1
7.5°	741.5	739.7	737.0	742.5	741.5
10°	733.4	732.5	730.7	736.1	735.2
12.5°	724.4	723.5	722.6	728.0	728.0
15°	710.8	711.7	711.7	719.0	718.1
17.5°	698.2	699.1	700.0	709.0	709.0
20°	681.9	682.8	686.5	696.4	697.3
22.5°	664.8	665.7	670.2	681.9	683.7
25°	644.9	648.5	653.9	666.6	669.3
27.5°	625.0	627.7	636.8	651.2	653.0
30°	601.5	607.0	616.9	633.2	636.8
32.5°	578.1	584.4	596.1	614.2	618.7
35°	553.7	560.9	575.4	594.3	598.8
37.5°	528.4	534.7	552.8	572.6	579.0
40°	503.1	509.4	529.3	551.9	559.1
42.5°	476.0	485.0	504.9	530.2	537.4
45°	448.0	457.9	480.5	507.6	513.0
47.5°	419.1	429.9	456.1	483.2	489.5
50°	393.8	403.7	429.9	456.1	460.6
52.5°	366.7	375.7	404.6	426.3	427.2
55°	337.8	348.6	377.5	394.7	392.9
57.5°	311.6	320.6	348.6	357.7	352.3
60°	283.6	291.7	319.7	320.6	312.5
62.5°	256.5	264.6	286.3	280.0	270.1
65°	229.4	237.5	252.9	241.2	232.1
67.5°	203.2	210.5	219.5	204.1	195.1
70°	175.2	185.2	186.1	168.0	159.0
72.5°	150.8	156.3	154.5	137.3	129.2
75°	123.7	130.1	121.9	105.7	99.4
77.5°	98.5	103.0	92.1	76.8	72.3
80°	73.2	75.9	63.2	51.5	48.8
82.5°	49.7	49.7	36.1	28.0	25.3
85°	28.9	25.3	15.4	13.5	13.5
87.5°	9.9	6.3	6.3	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)