

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: P258826

Luminaire Tested: **14CZ-LD5-20-S-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258826
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-6500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2041.0 lumens
Efficiency: N/A
Efficacy: 126.9 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

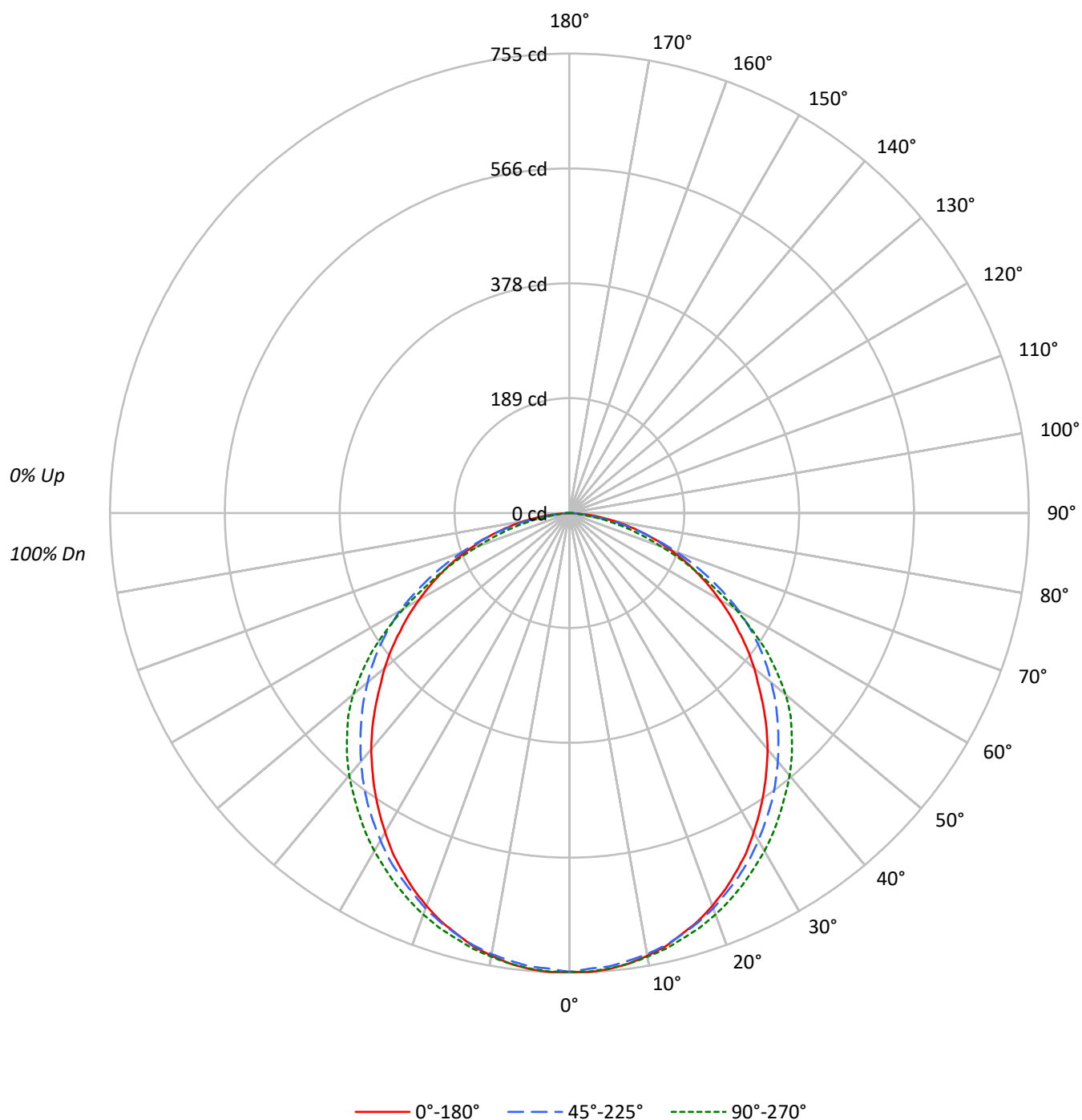
Input Watts (W): 16.089
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	100	97	106	102	98	95		98	95	92		94	92	89		91	89	87
2	99	91	85	79	97	89	83	78		86	81	76		83	78	75		80	76	73
3	91	80	72	66	88	79	71	65		76	69	64		73	68	63		70	66	62
4	83	71	63	56	81	70	62	56		67	60	55		65	59	54		63	58	53
5	76	64	55	48	74	63	54	48		60	53	47		58	52	47		57	51	46
6	71	57	48	42	69	56	48	42		55	47	42		53	46	41		51	45	41
7	65	52	43	37	64	51	43	37		50	42	37		48	42	37		47	41	36
8	61	47	39	33	59	47	39	33		45	38	33		44	38	33		43	37	32
9	57	44	35	30	56	43	35	30		42	35	30		41	34	30		40	34	29
10	53	40	32	27	52	40	32	27		39	32	27		38	31	27		37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2029	2029	2029
5°	2032	2019	2029
10°	2018	2011	2023
15°	1994	1997	2014
20°	1966	1979	2011
25°	1928	1955	2001
30°	1882	1930	1992
35°	1831	1903	1981
40°	1780	1872	1978
45°	1717	1841	1966
50°	1660	1812	1942
55°	1596	1784	1856
60°	1537	1733	1694
65°	1471	1622	1488
70°	1388	1474	1260
75°	1295	1277	1040
80°	1142	987	761
85°	898	479	420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.2	3.5
10°-20°	203.0	9.9
20°-30°	304.6	14.9
30°-40°	363.1	17.8
40°-50°	374.0	18.3
50°-60°	333.3	16.3
60°-70°	240.2	11.8
70°-80°	125.6	6.2
80°-90°	26.0	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°	578.8	28.4
0°-40°	941.9	46.1
0°-60°	1649.2	80.8
0°-90°	2041.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2041.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	754	754	754	754	754	
5°	752	750	748	752	751	71
15°	716	717	717	724	723	202
25°	649	653	658	671	674	299
35°	558	565	579	598	603	349
45°	451	461	484	511	517	348
55°	340	351	380	397	396	305
65°	231	239	255	243	234	229
75°	125	131	123	106	100	132
85°	29	26	16	14	14	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	753.9	753.9	753.9	753.9	753.9
2.5°	754.9	753.0	749.4	753.9	753.9
5°	752.1	750.3	747.6	752.1	751.2
7.5°	746.7	744.9	742.1	747.6	746.7
10°	738.5	737.6	735.8	741.2	740.3
12.5°	729.4	728.5	727.6	733.0	733.0
15°	715.7	716.7	716.7	723.9	723.0
17.5°	703.0	703.9	704.8	713.9	713.9
20°	686.6	687.6	691.2	701.2	702.1
22.5°	669.4	670.3	674.8	686.6	688.5
25°	649.4	653.0	658.5	671.2	673.9
27.5°	629.3	632.1	641.2	655.7	657.5
30°	605.7	611.2	621.2	637.5	641.2
32.5°	582.1	588.4	600.2	618.4	623.0
35°	557.5	564.8	579.3	598.4	603.0
37.5°	532.0	538.4	556.6	576.6	583.0
40°	506.6	512.9	532.9	555.7	563.0
42.5°	479.3	488.4	508.4	533.9	541.1
45°	451.1	461.1	483.8	511.1	516.6
47.5°	422.0	432.9	459.3	486.6	492.9
50°	396.5	406.5	432.9	459.3	463.8
52.5°	369.2	378.3	407.4	429.3	430.2
55°	340.1	351.1	380.2	397.4	395.6
57.5°	313.8	322.9	351.1	360.1	354.7
60°	285.6	293.8	322.0	322.9	314.7
62.5°	258.3	266.5	288.3	281.9	271.9
65°	231.0	239.2	254.7	242.8	233.7
67.5°	204.6	211.9	221.0	205.5	196.4
70°	176.4	186.4	187.3	169.2	160.1
72.5°	151.9	157.3	155.5	138.2	130.1
75°	124.6	131.0	122.8	106.4	100.0
77.5°	99.1	103.7	92.8	77.3	72.8
80°	73.7	76.4	63.7	51.8	49.1
82.5°	50.0	50.0	36.4	28.2	25.5
85°	29.1	25.5	15.5	13.6	13.6
87.5°	10.0	6.4	6.4	6.4	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)