

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: P258822

Luminaire Tested: **14CZ-LD5-20-S-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258822
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-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1948.0 lumens
Efficiency: N/A
Efficacy: 124.7 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

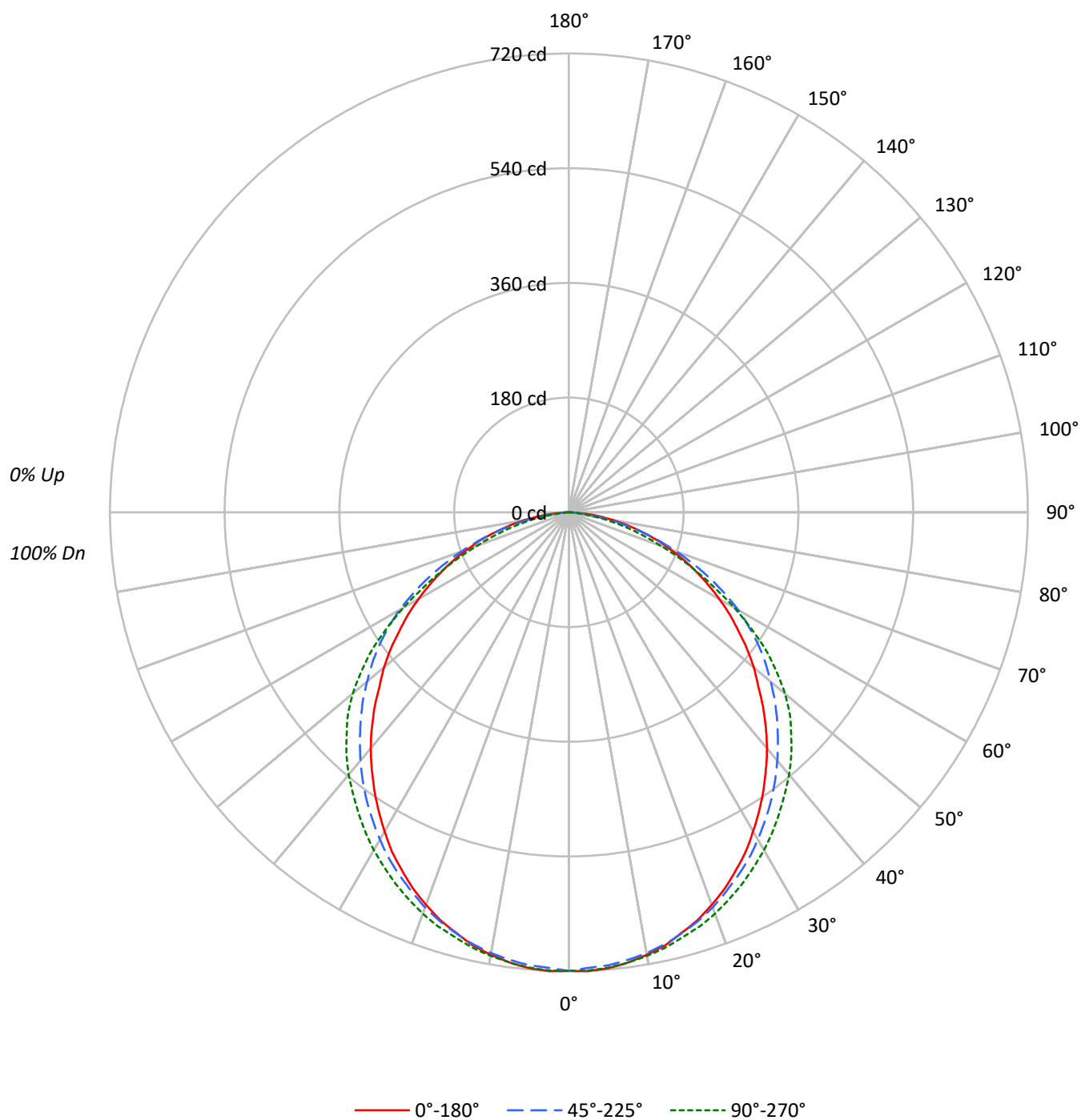
Input Watts (W): 15.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1936	1936	1936
5°	1939	1927	1937
10°	1926	1919	1931
15°	1903	1906	1923
20°	1877	1889	1919
25°	1840	1866	1910
30°	1796	1842	1902
35°	1748	1816	1891
40°	1698	1787	1887
45°	1638	1757	1876
50°	1585	1730	1853
55°	1523	1702	1772
60°	1467	1654	1616
65°	1404	1547	1421
70°	1325	1407	1202
75°	1236	1219	993
80°	1089	942	727
85°	858	457	401



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.0	3.5
10°-20°	193.7	9.9
20°-30°	290.7	14.9
30°-40°	346.6	17.8
40°-50°	357.0	18.3
50°-60°	318.1	16.3
60°-70°	229.2	11.8
70°-80°	119.9	6.2
80°-90°	24.8	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°	552.4	28.4
0°-40°	899.0	46.1
0°-60°	1574.1	80.8
0°-90°	1948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1948.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	720	720	720	720	720	
5°	718	716	714	718	717	68
15°	683	684	684	691	690	193
25°	620	623	628	641	643	285
35°	532	539	553	571	576	333
45°	430	440	462	488	493	332
55°	325	335	363	379	378	291
65°	220	228	243	232	223	218
75°	119	125	117	102	96	126
85°	28	24	15	13	13	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	719.6	719.6	719.6	719.6	719.6
2.5°	720.5	718.7	715.3	719.6	719.6
5°	717.9	716.1	713.5	717.9	717.0
7.5°	712.6	710.9	708.3	713.5	712.6
10°	704.8	704.0	702.2	707.4	706.6
12.5°	696.2	695.3	694.4	699.6	699.6
15°	683.1	684.0	684.0	690.9	690.1
17.5°	671.0	671.9	672.7	681.4	681.4
20°	655.4	656.2	659.7	669.2	670.1
22.5°	638.9	639.7	644.1	655.4	657.1
25°	619.8	623.2	628.4	640.6	643.2
27.5°	600.7	603.3	612.0	625.8	627.6
30°	578.1	583.3	592.9	608.5	612.0
32.5°	555.5	561.6	572.9	590.3	594.6
35°	532.1	539.0	552.9	571.2	575.5
37.5°	507.8	513.9	531.2	550.3	556.4
40°	483.5	489.6	508.7	530.4	537.3
42.5°	457.4	466.1	485.2	509.5	516.5
45°	430.5	440.1	461.8	487.8	493.0
47.5°	402.8	413.2	438.4	464.4	470.5
50°	378.5	388.0	413.2	438.4	442.7
52.5°	352.4	361.1	388.9	409.7	410.6
55°	324.6	335.1	362.8	379.3	377.6
57.5°	299.5	308.1	335.1	343.7	338.5
60°	272.6	280.4	307.3	308.1	300.3
62.5°	246.5	254.3	275.2	269.1	259.5
65°	220.5	228.3	243.0	231.8	223.1
67.5°	195.3	202.2	210.9	196.2	187.5
70°	168.4	177.9	178.8	161.5	152.8
72.5°	145.0	150.2	148.4	131.9	124.1
75°	118.9	125.0	117.2	101.6	95.5
77.5°	94.6	99.0	88.5	73.8	69.4
80°	70.3	72.9	60.8	49.5	46.9
82.5°	47.7	47.7	34.7	26.9	24.3
85°	27.8	24.3	14.8	13.0	13.0
87.5°	9.5	6.1	6.1	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)