

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: P259012

Luminaire Tested: **14CZ-LD5-29-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-29-RDP-UNV-L92765-W2A1-U-6500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1871.0 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

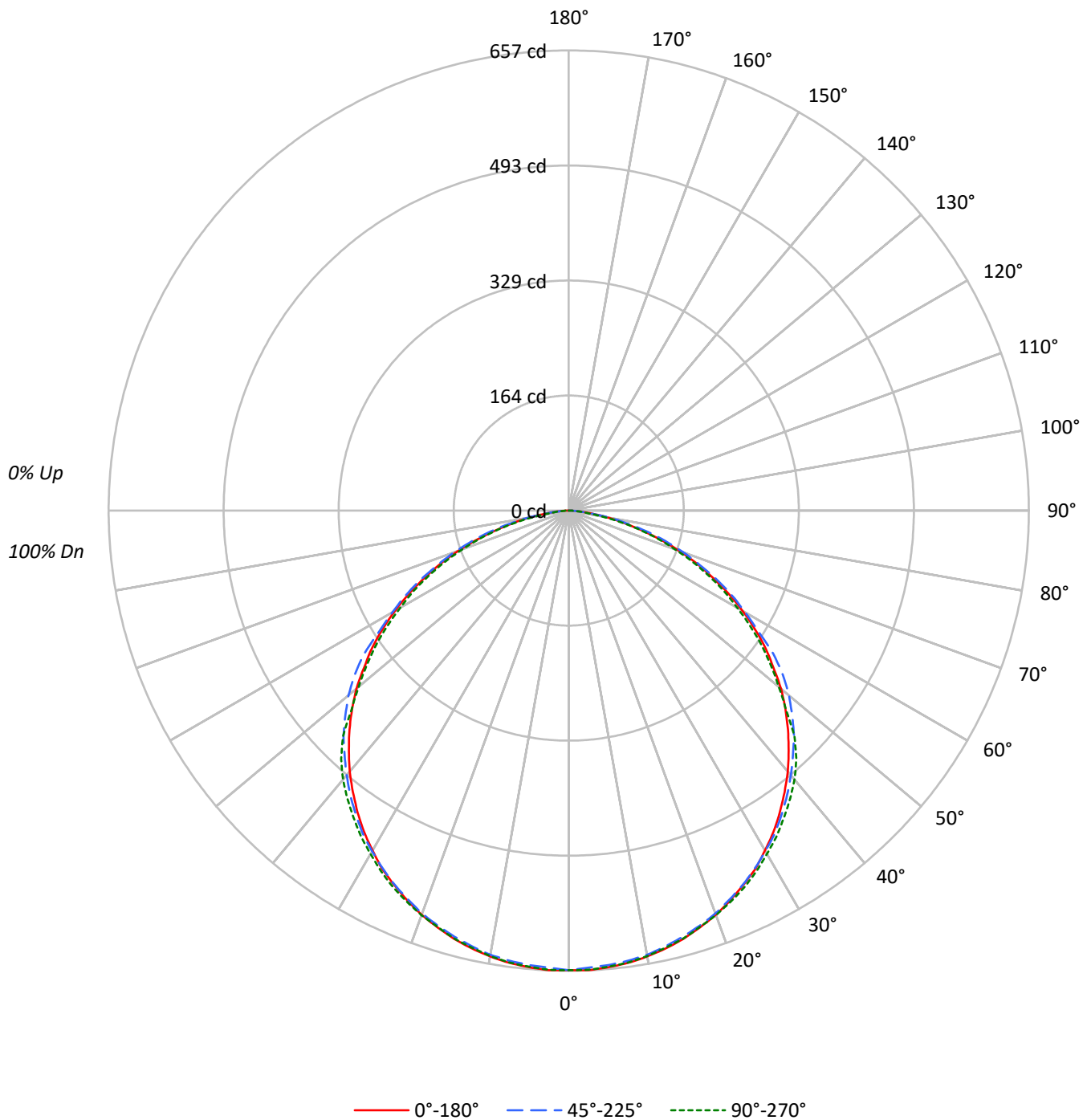
Input Watts (W): 23.157
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	95	92		94	91	89		90
2	99	91	84	79	97	89	83	78	86	80	76		82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64		73	67	63		70
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62
5	76	63	54	48	74	62	54	47	60	53	47		58	51	46		56
6	70	57	48	42	68	56	47	41	54	47	41		52	46	41		51
7	65	52	43	37	63	51	42	36	49	42	36		48	41	36		46
8	61	47	38	33	59	46	38	33	45	38	32		44	37	32		43
9	57	43	35	29	55	43	35	29	41	34	29		40	34	29		39
10	53	40	32	27	52	39	32	26	38	31	26		37	31	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1766	1766	1766
5°	1767	1759	1766
10°	1766	1760	1765
15°	1763	1755	1762
20°	1759	1753	1760
25°	1751	1749	1762
30°	1741	1745	1758
35°	1727	1741	1759
40°	1709	1733	1761
45°	1685	1731	1733
50°	1657	1718	1639
55°	1611	1673	1579
60°	1542	1566	1497
65°	1445	1484	1406
70°	1315	1367	1271
75°	1097	1199	1078
80°	869	917	747
85°	565	491	432



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.1	3.3
10°-20°	178.4	9.5
20°-30°	272.4	14.6
30°-40°	332.1	17.7
40°-50°	347.7	18.6
50°-60°	309.3	16.5
60°-70°	228.2	12.2
70°-80°	117.9	6.3
80°-90°	22.9	1.2
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°	512.9	27.4
0°-40°	845.0	45.2
0°-60°	1502.0	80.3
0°-90°	1871.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1871.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	656	656	656	656	656	
5°	654	654	651	654	654	62
15°	633	632	630	632	632	179
25°	590	590	589	593	593	272
35°	526	526	530	536	535	329
45°	443	446	455	459	456	341
55°	343	351	357	342	337	306
65°	227	243	233	225	221	225
75°	106	116	115	106	104	114
85°	18	20	16	15	14	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	656.2	656.2	656.2	656.2	656.2
2.5°	656.8	656.2	653.1	656.2	656.2
5°	654.3	653.7	651.3	653.7	653.7
7.5°	651.3	650.7	648.2	650.7	650.7
10°	646.4	645.8	644.0	646.4	645.8
12.5°	640.3	640.3	637.3	640.3	639.1
15°	633.0	632.4	629.9	632.4	632.4
17.5°	623.8	623.2	621.4	624.5	623.2
20°	614.1	613.5	612.3	615.3	614.7
22.5°	602.5	602.5	600.7	604.3	604.3
25°	589.7	589.7	589.1	593.4	593.4
27.5°	576.9	575.7	575.7	579.9	580.5
30°	560.4	560.4	561.6	566.5	565.9
32.5°	544.0	544.6	547.0	551.3	551.9
35°	525.7	526.3	529.9	536.0	535.4
37.5°	506.2	508.0	512.2	519.0	519.0
40°	486.6	487.9	493.3	500.7	501.3
42.5°	464.7	467.7	473.8	482.4	481.1
45°	442.7	445.8	454.9	459.2	455.5
47.5°	419.6	423.2	432.4	433.0	420.8
50°	395.8	400.0	410.4	398.2	391.5
52.5°	368.3	376.3	385.4	368.3	364.1
55°	343.3	350.6	356.7	341.5	336.6
57.5°	315.3	325.0	320.8	313.4	307.3
60°	286.6	297.0	290.9	283.6	278.1
62.5°	257.3	268.9	262.8	255.5	250.6
65°	226.9	242.7	233.0	225.0	220.8
67.5°	198.2	213.4	201.9	195.8	191.5
70°	167.1	179.9	173.8	165.9	161.6
72.5°	136.6	146.4	144.5	136.0	132.9
75°	105.5	116.5	115.3	106.1	103.7
77.5°	79.3	89.6	86.0	78.7	75.6
80°	56.1	62.8	59.2	50.6	48.2
82.5°	34.1	39.6	33.5	28.7	26.2
85°	18.3	20.1	15.9	14.6	14.0
87.5°	6.7	6.7	6.7	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)