

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: P259179

Luminaire Tested: **14CZ-LD5-29-SQP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35908)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-29-SQP-UNV-L92765-W2A1-U-5700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1788.0 lumens
Efficiency: N/A
Efficacy: 78.5 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

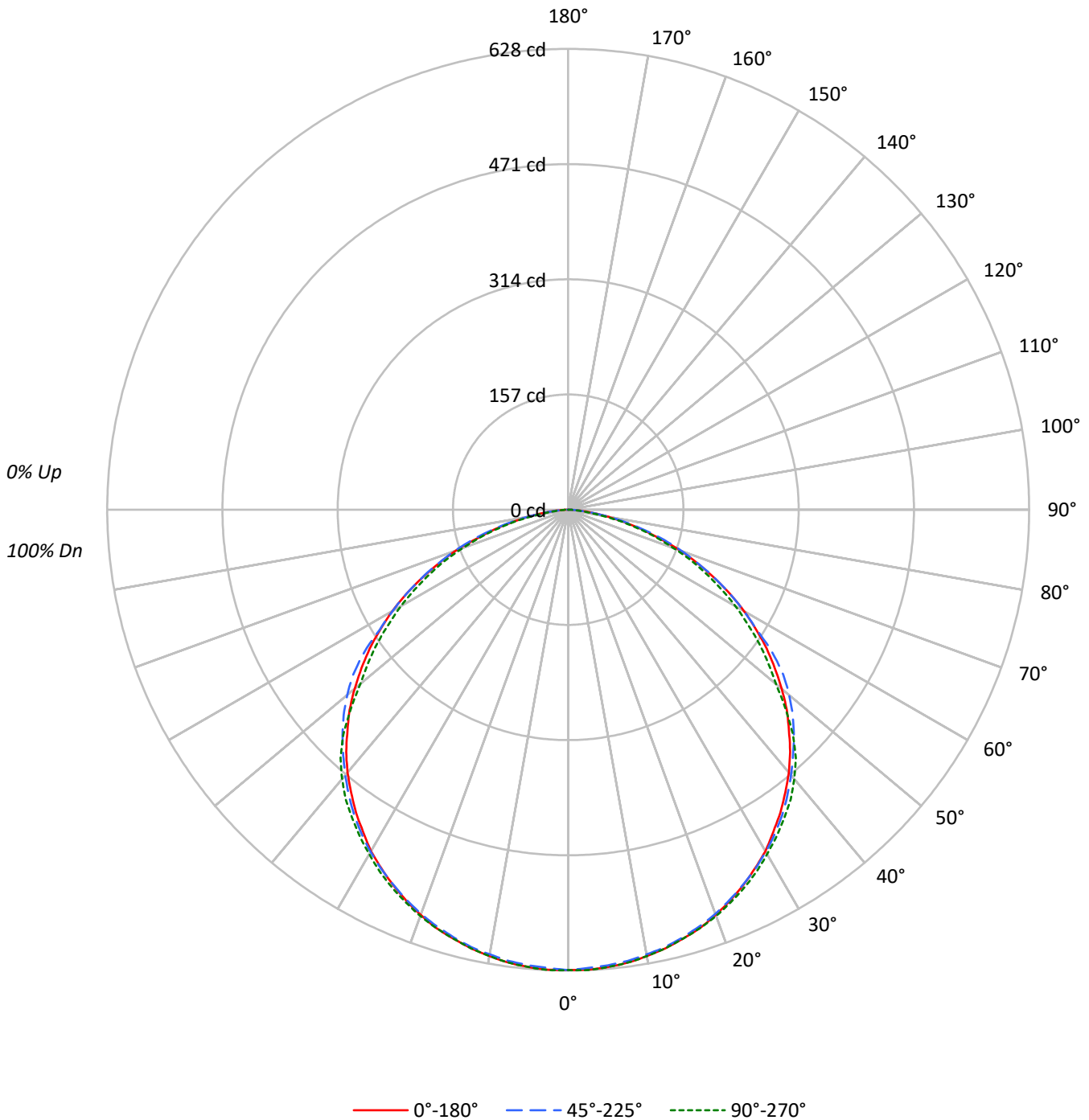
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1688	1688	1688
5°	1690	1683	1690
10°	1688	1681	1688
15°	1685	1680	1685
20°	1682	1679	1688
25°	1676	1674	1687
30°	1669	1673	1684
35°	1655	1669	1685
40°	1643	1659	1683
45°	1618	1655	1648
50°	1590	1646	1546
55°	1549	1594	1489
60°	1490	1486	1418
65°	1396	1404	1326
70°	1282	1296	1201
75°	1077	1127	1026
80°	854	872	722
85°	562	485	411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.4	3.3
10°-20°	170.8	9.6
20°-30°	260.8	14.6
30°-40°	318.2	17.8
40°-50°	332.7	18.6
50°-60°	294.6	16.5
60°-70°	216.9	12.1
70°-80°	112.3	6.3
80°-90°	22.4	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°	491.0	27.5
0°-40°	809.2	45.3
0°-60°	1436.4	80.3
0°-90°	1788.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1788.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	627	627	627	627	627	
5°	626	626	623	626	626	59
15°	605	605	603	606	605	171
25°	564	564	564	568	568	260
35°	504	505	508	513	513	315
45°	425	429	435	438	433	328
55°	330	337	340	322	317	294
65°	219	233	220	212	208	217
75°	104	111	108	102	99	111
85°	18	19	16	14	13	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	627.4	627.4	627.4	627.4	627.4
2.5°	627.4	627.4	625.0	627.4	628.0
5°	625.6	625.6	623.2	625.6	625.6
7.5°	622.6	622.0	620.2	622.6	622.6
10°	617.8	617.8	615.3	618.4	617.8
12.5°	612.3	611.7	610.5	612.9	612.3
15°	605.0	605.0	603.2	605.6	605.0
17.5°	597.8	597.2	595.3	597.8	597.8
20°	587.5	586.9	586.3	588.7	589.3
22.5°	576.6	576.0	575.4	579.0	579.0
25°	564.5	564.5	563.8	567.5	568.1
27.5°	551.1	551.1	551.7	556.6	556.0
30°	537.2	537.2	538.4	542.0	542.0
32.5°	520.2	521.5	523.9	528.1	528.1
35°	503.9	505.1	508.1	513.0	513.0
37.5°	485.7	487.5	490.6	496.6	497.8
40°	467.6	468.8	472.4	479.1	479.1
42.5°	447.6	448.8	453.6	460.3	459.1
45°	425.2	428.8	434.8	438.5	433.0
47.5°	404.0	406.4	414.9	410.6	401.5
50°	379.7	384.6	393.1	377.9	369.4
52.5°	354.9	360.4	369.4	348.2	343.4
55°	330.1	336.7	339.8	322.2	317.4
57.5°	303.4	310.7	304.6	294.3	289.5
60°	276.8	285.3	276.2	266.5	263.5
62.5°	248.9	258.6	248.3	239.8	235.6
65°	219.2	232.6	220.5	212.0	208.3
67.5°	190.2	204.1	191.4	184.1	181.7
70°	162.9	170.8	164.7	157.5	152.6
72.5°	130.2	138.1	136.9	129.0	126.0
75°	103.6	110.8	108.4	101.7	98.7
77.5°	76.9	84.8	82.4	74.5	73.3
80°	55.1	60.6	56.3	49.1	46.6
82.5°	34.5	38.8	33.3	27.9	26.6
85°	18.2	19.4	15.7	13.9	13.3
87.5°	6.1	6.7	6.7	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)