

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: P259181

Luminaire Tested: **14CZ-LD5-35-SQP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259181
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-LD5-35-SQP-UNV-L92765-W2A1-U-2700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1787.0 lumens
Efficiency: N/A
Efficacy: 65.4 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

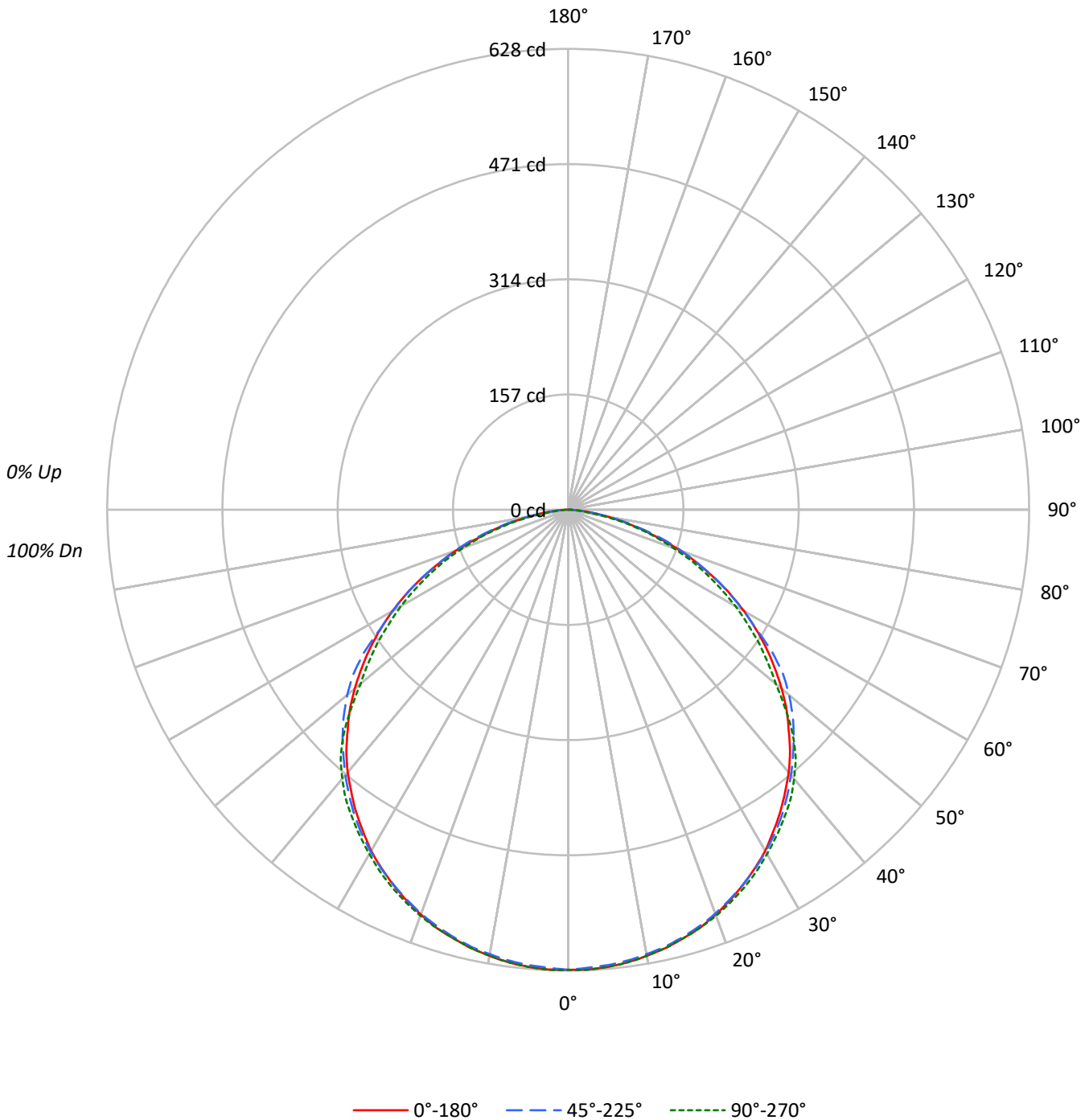
Input Watts (W): 27.342
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1689	1683	1689
10°	1687	1680	1687
15°	1685	1680	1685
20°	1681	1678	1687
25°	1675	1673	1686
30°	1668	1672	1683
35°	1654	1668	1684
40°	1642	1658	1682
45°	1617	1654	1647
50°	1589	1644	1546
55°	1548	1593	1488
60°	1489	1485	1417
65°	1395	1403	1326
70°	1281	1295	1200
75°	1076	1126	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°	170.7	9.6
20°-30°	260.6	14.6
30°-40°	318.0	17.8
40°-50°	332.5	18.6
50°-60°	294.4	16.5
60°-70°	216.8	12.1
70°-80°	112.2	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°	490.7	27.5
0°-40°	808.7	45.3
0°-60°	1435.6	80.3
0°-90°	1787.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1787.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	627	627	627	627	627	
5°	625	625	623	625	625	59
15°	605	605	603	605	605	171
25°	564	564	564	567	568	260
35°	504	505	508	513	513	315
45°	425	429	435	438	433	328
55°	330	336	340	322	317	294
65°	219	232	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°	627.1	627.1	627.1	627.1	627.1
2.5°	627.1	627.1	624.7	627.1	627.7
5°	625.3	625.3	622.9	625.3	625.3
7.5°	622.2	621.6	619.8	622.2	622.2
10°	617.4	617.4	615.0	618.0	617.4
12.5°	612.0	611.4	610.1	612.6	612.0
15°	604.7	604.7	602.9	605.3	604.7
17.5°	597.4	596.8	595.0	597.4	597.4
20°	587.1	586.5	585.9	588.4	589.0
22.5°	576.2	575.6	575.0	578.7	578.7
25°	564.1	564.1	563.5	567.2	567.8
27.5°	550.8	550.8	551.4	556.3	555.7
30°	536.9	536.9	538.1	541.7	541.7
32.5°	520.0	521.2	523.6	527.8	527.8
35°	503.6	504.8	507.8	512.7	512.7
37.5°	485.4	487.3	490.3	496.3	497.6
40°	467.3	468.5	472.1	478.8	478.8
42.5°	447.3	448.5	453.4	460.0	458.8
45°	424.9	428.6	434.6	438.2	432.8
47.5°	403.7	406.2	414.6	410.4	401.3
50°	379.5	384.4	392.8	377.7	369.2
52.5°	354.7	360.2	369.2	348.0	343.2
55°	329.9	336.5	339.6	322.0	317.2
57.5°	303.3	310.5	304.5	294.2	289.3
60°	276.6	285.1	276.0	266.3	263.3
62.5°	248.8	258.5	248.2	239.7	235.5
65°	219.1	232.4	220.3	211.9	208.2
67.5°	190.1	204.0	191.3	184.0	181.6
70°	162.8	170.7	164.6	157.4	152.5
72.5°	130.1	138.0	136.8	128.9	125.9
75°	103.5	110.8	108.3	101.7	98.7
77.5°	76.9	84.7	82.3	74.5	73.2
80°	55.1	60.5	56.3	49.0	46.6
82.5°	34.5	38.7	33.3	27.8	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)