

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: P259115

Luminaire Tested: **14CZ-LD5-25-SQP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259115
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-LD5-25-SQP-UNV-L82765-W2A1-U-5500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1649.9 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

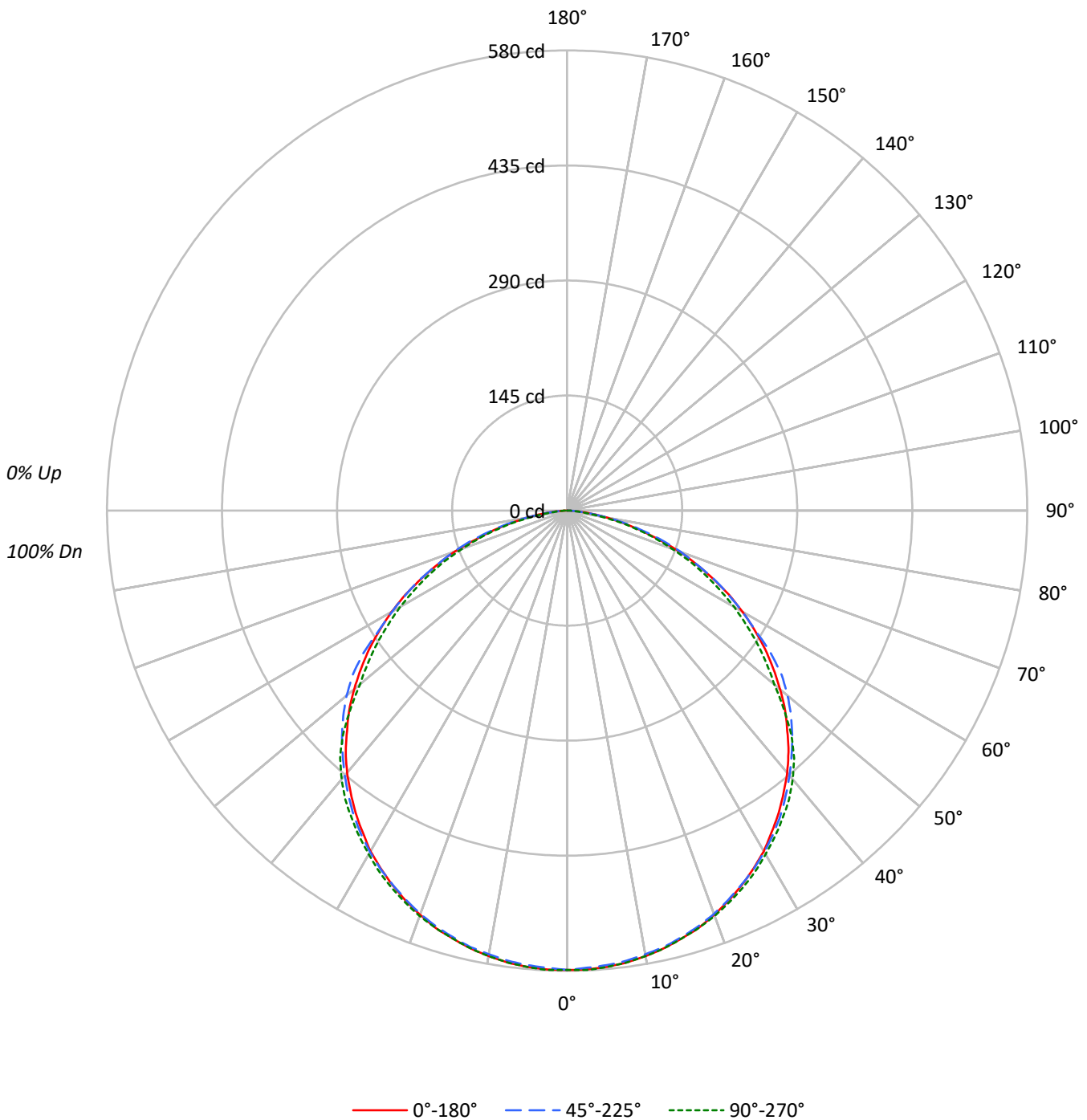
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1558	1558	1558
5°	1559	1553	1559
10°	1558	1552	1558
15°	1555	1551	1555
20°	1552	1549	1557
25°	1547	1545	1556
30°	1540	1544	1554
35°	1528	1540	1555
40°	1516	1531	1553
45°	1493	1527	1521
50°	1467	1518	1427
55°	1429	1471	1374
60°	1375	1372	1308
65°	1288	1295	1224
70°	1183	1196	1108
75°	994	1040	947
80°	789	806	666
85°	519	448	380



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	3.3
10°-20°	157.6	9.6
20°-30°	240.7	14.6
30°-40°	293.6	17.8
40°-50°	307.0	18.6
50°-60°	271.8	16.5
60°-70°	200.1	12.1
70°-80°	103.6	6.3
80°-90°	20.6	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°	453.1	27.5
0°-40°	746.7	45.3
0°-60°	1325.5	80.3
0°-90°	1649.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1649.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	579	579	579	579	579	
5°	577	577	575	577	577	55
15°	558	558	557	559	558	158
25°	521	521	520	524	524	240
35°	465	466	469	473	473	291
45°	392	396	401	405	400	303
55°	305	311	314	297	293	272
65°	202	215	203	196	192	200
75°	96	102	100	94	91	102
85°	17	18	14	13	12	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	579.0	579.0	579.0	579.0	579.0
2.5°	579.0	579.0	576.8	579.0	579.6
5°	577.3	577.3	575.1	577.3	577.3
7.5°	574.5	574.0	572.3	574.5	574.5
10°	570.1	570.1	567.8	570.6	570.1
12.5°	565.0	564.5	563.4	565.6	565.0
15°	558.3	558.3	556.7	558.9	558.3
17.5°	551.6	551.1	549.4	551.6	551.6
20°	542.1	541.6	541.0	543.2	543.8
22.5°	532.1	531.5	530.9	534.3	534.3
25°	520.9	520.9	520.3	523.7	524.2
27.5°	508.6	508.6	509.2	513.6	513.1
30°	495.7	495.7	496.9	500.2	500.2
32.5°	480.1	481.2	483.4	487.4	487.4
35°	465.0	466.1	468.9	473.4	473.4
37.5°	448.2	449.9	452.7	458.3	459.4
40°	431.5	432.6	435.9	442.1	442.1
42.5°	413.0	414.1	418.6	424.8	423.6
45°	392.3	395.7	401.3	404.6	399.6
47.5°	372.8	375.0	382.8	378.9	370.5
50°	350.4	354.9	362.7	348.7	340.9
52.5°	327.5	332.5	340.9	321.4	316.9
55°	304.6	310.7	313.5	297.3	292.9
57.5°	280.0	286.7	281.1	271.6	267.2
60°	255.4	263.2	254.9	245.9	243.1
62.5°	229.7	238.6	229.1	221.3	217.4
65°	202.3	214.6	203.4	195.6	192.3
67.5°	175.5	188.3	176.6	169.9	167.7
70°	150.3	157.6	152.0	145.3	140.8
72.5°	120.2	127.4	126.3	119.0	116.2
75°	95.6	102.3	100.0	93.9	91.1
77.5°	71.0	78.2	76.0	68.7	67.6
80°	50.9	55.9	52.0	45.3	43.0
82.5°	31.9	35.8	30.7	25.7	24.6
85°	16.8	17.9	14.5	12.9	12.3
87.5°	5.6	6.1	6.1	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)