

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: P259116

Luminaire Tested: **14CZ-LD5-25-SQP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259116
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-5700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1655.0 lumens
Efficiency: N/A
Efficacy: 88.1 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

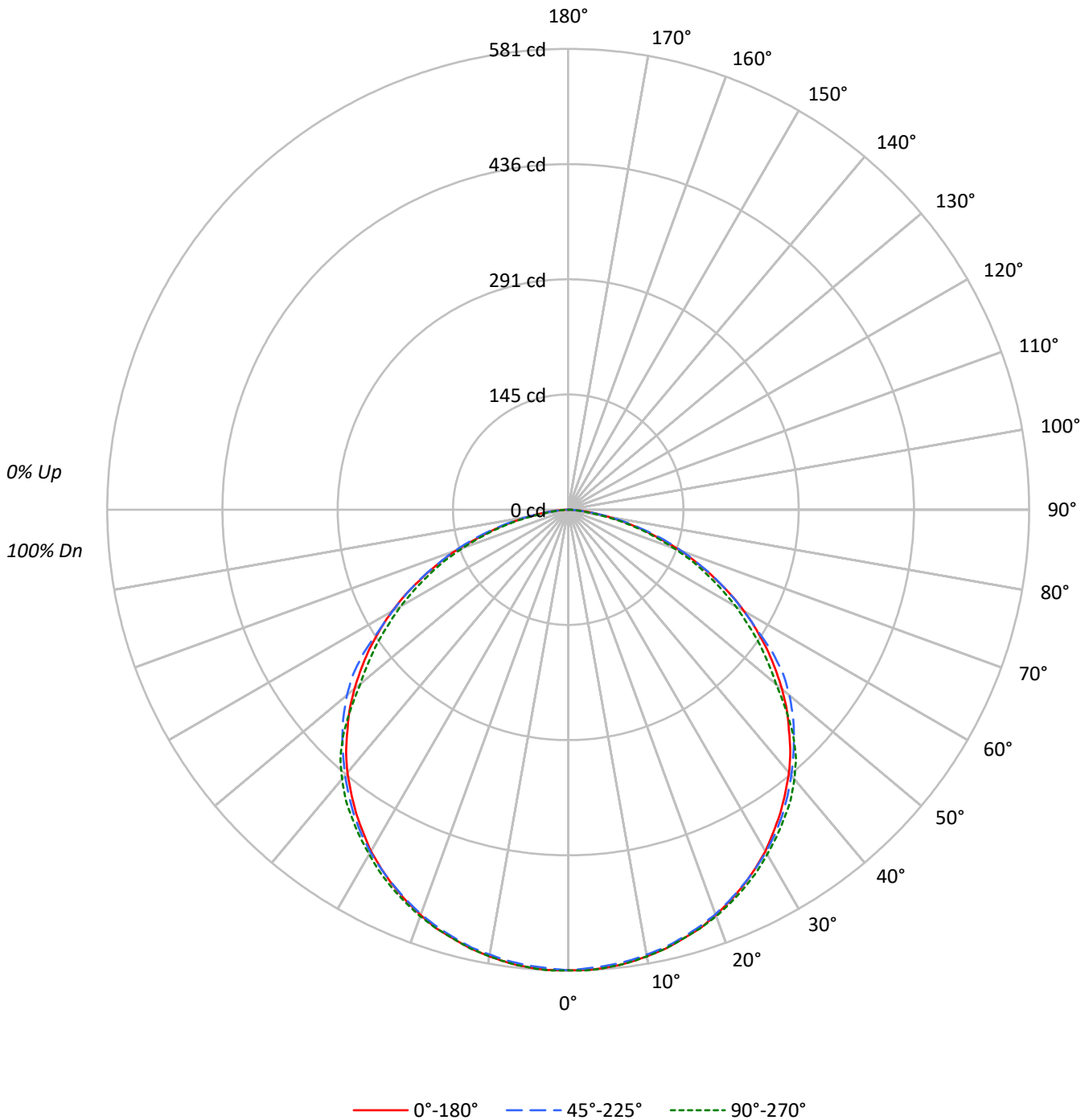
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1563	1563	1563
5°	1564	1558	1564
10°	1562	1556	1562
15°	1560	1555	1560
20°	1557	1554	1562
25°	1551	1550	1561
30°	1545	1549	1559
35°	1532	1545	1560
40°	1520	1536	1558
45°	1498	1532	1525
50°	1472	1523	1432
55°	1433	1476	1378
60°	1379	1376	1313
65°	1292	1300	1228
70°	1186	1200	1112
75°	997	1043	950
80°	790	807	669
85°	519	451	380



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.0	3.3
10°-20°	158.1	9.6
20°-30°	241.4	14.6
30°-40°	294.5	17.8
40°-50°	308.0	18.6
50°-60°	272.6	16.5
60°-70°	200.8	12.1
70°-80°	103.9	6.3
80°-90°	20.7	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°	454.5	27.5
0°-40°	749.0	45.3
0°-60°	1329.6	80.3
0°-90°	1655.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1655.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	581	581	581	581	581	
5°	579	579	577	579	579	55
15°	560	560	558	561	560	158
25°	522	522	522	525	526	241
35°	466	468	470	475	475	292
45°	394	397	402	406	401	304
55°	306	312	314	298	294	273
65°	203	215	204	196	193	201
75°	96	103	100	94	91	102
85°	17	18	15	13	12	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	580.8	580.8	580.8	580.8	580.8
2.5°	580.8	580.8	578.5	580.8	581.3
5°	579.1	579.1	576.8	579.1	579.1
7.5°	576.3	575.7	574.0	576.3	576.3
10°	571.8	571.8	569.6	572.4	571.8
12.5°	566.8	566.2	565.1	567.3	566.8
15°	560.0	560.0	558.3	560.6	560.0
17.5°	553.3	552.7	551.1	553.3	553.3
20°	543.8	543.2	542.6	544.9	545.5
22.5°	533.7	533.1	532.6	535.9	535.9
25°	522.5	522.5	521.9	525.3	525.8
27.5°	510.1	510.1	510.7	515.2	514.6
30°	497.2	497.2	498.4	501.7	501.7
32.5°	481.5	482.7	484.9	488.8	488.8
35°	466.4	467.5	470.3	474.8	474.8
37.5°	449.6	451.3	454.1	459.7	460.8
40°	432.8	433.9	437.3	443.4	443.4
42.5°	414.3	415.4	419.9	426.0	424.9
45°	393.5	396.9	402.5	405.9	400.8
47.5°	373.9	376.2	384.0	380.1	371.7
50°	351.5	356.0	363.8	349.8	342.0
52.5°	328.5	333.5	342.0	322.3	317.9
55°	305.5	311.7	314.5	298.2	293.7
57.5°	280.9	287.6	282.0	272.4	268.0
60°	256.2	264.0	255.6	246.7	243.9
62.5°	230.4	239.4	229.8	222.0	218.1
65°	202.9	215.3	204.1	196.2	192.8
67.5°	176.0	188.9	177.1	170.4	168.2
70°	150.8	158.1	152.5	145.8	141.3
72.5°	120.5	127.8	126.7	119.4	116.6
75°	95.9	102.6	100.3	94.2	91.4
77.5°	71.2	78.5	76.2	69.0	67.8
80°	51.0	56.1	52.1	45.4	43.2
82.5°	32.0	35.9	30.8	25.8	24.7
85°	16.8	17.9	14.6	12.9	12.3
87.5°	5.6	6.2	6.2	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)