

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: P259111

Luminaire Tested: **14CZ-LD5-25-SQP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259111
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-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1550.0 lumens
Efficiency: N/A
Efficacy: 84.6 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

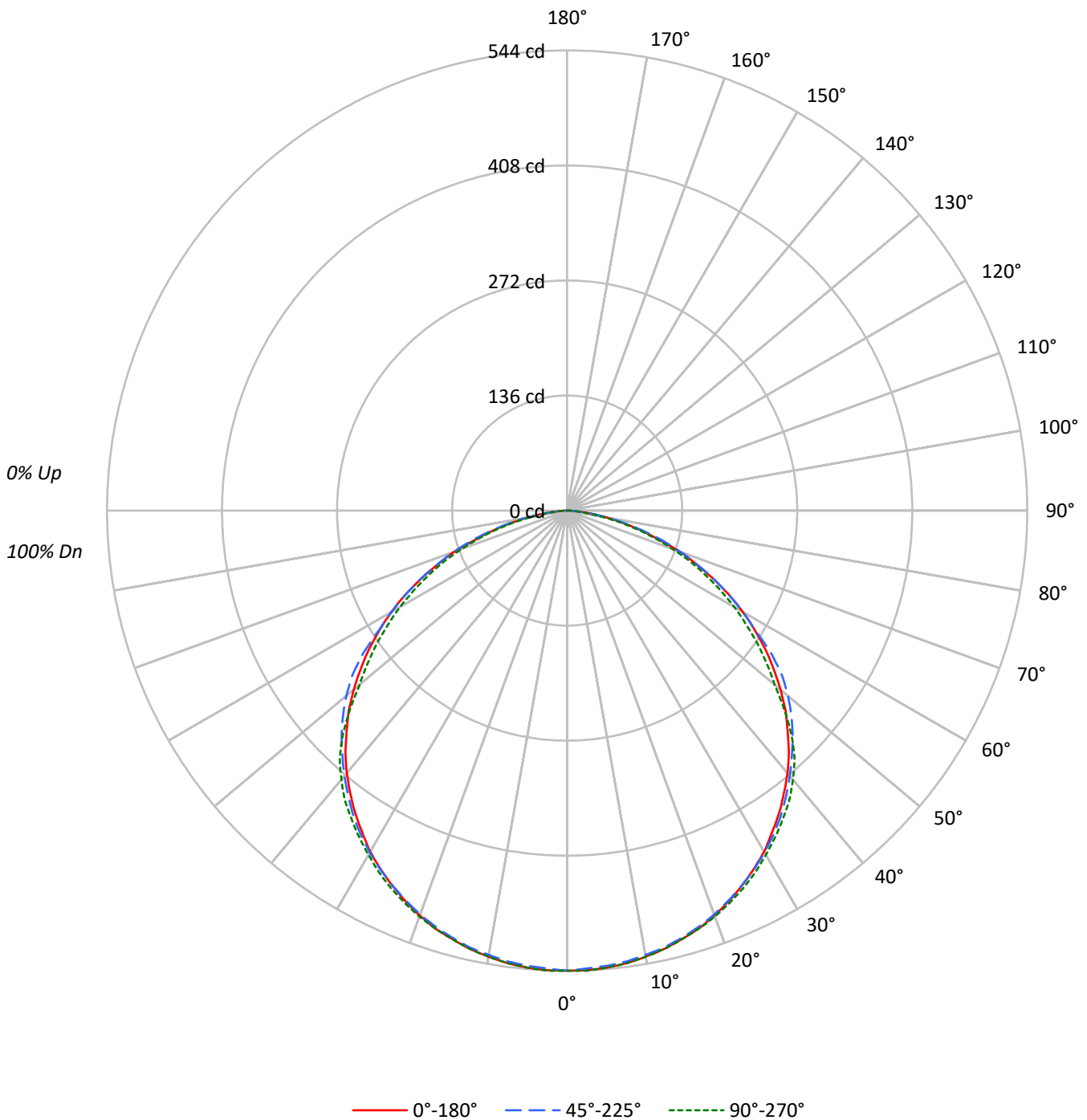
Input Watts (W): 18.321
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259111

CATALOG NUMBER: 14CZ-LD5-25-SQP-UNV-L82765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P259111

CATALOG NUMBER: 14CZ-LD5-25-SQP-UNV-L82765-W2A1-U-3500K

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°	1464	1464	1464
5°	1465	1459	1465
10°	1463	1458	1463
15°	1461	1457	1461
20°	1458	1455	1463
25°	1453	1451	1462
30°	1447	1450	1460
35°	1435	1447	1461
40°	1424	1439	1459
45°	1403	1435	1429
50°	1378	1426	1341
55°	1342	1382	1291
60°	1291	1288	1229
65°	1210	1217	1150
70°	1111	1124	1041
75°	934	977	890
80°	741	756	626
85°	488	423	358



TEST NUMBER: P259111

CATALOG NUMBER: 14CZ-LD5-25-SQP-UNV-L82765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.5	3.3
10°-20°	148.1	9.6
20°-30°	226.1	14.6
30°-40°	275.8	17.8
40°-50°	288.4	18.6
50°-60°	255.3	16.5
60°-70°	188.0	12.1
70°-80°	97.4	6.3
80°-90°	19.4	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°	425.6	27.5
0°-40°	701.4	45.3
0°-60°	1245.2	80.3
0°-90°	1550.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1550.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	544	544	544	544	544	
5°	542	542	540	542	542	52
15°	524	524	523	525	524	148
25°	489	489	489	492	492	226
35°	437	438	440	445	445	273
45°	369	372	377	380	375	285
55°	286	292	294	279	275	255
65°	190	202	191	184	181	188
75°	90	96	94	88	86	96
85°	16	17	14	12	12	20
90°	0	0	0	0	0	



TEST NUMBER: P259111

CATALOG NUMBER: 14CZ-LD5-25-SQP-UNV-L82765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	543.9	543.9	543.9	543.9	543.9
2.5°	543.9	543.9	541.8	543.9	544.4
5°	542.3	542.3	540.2	542.3	542.3
7.5°	539.7	539.2	537.6	539.7	539.7
10°	535.5	535.5	533.4	536.0	535.5
12.5°	530.8	530.3	529.2	531.3	530.8
15°	524.5	524.5	522.9	525.0	524.5
17.5°	518.2	517.7	516.1	518.2	518.2
20°	509.3	508.7	508.2	510.3	510.8
22.5°	499.8	499.3	498.8	501.9	501.9
25°	489.3	489.3	488.8	491.9	492.5
27.5°	477.8	477.8	478.3	482.5	482.0
30°	465.7	465.7	466.7	469.9	469.9
32.5°	451.0	452.0	454.1	457.8	457.8
35°	436.8	437.9	440.5	444.7	444.7
37.5°	421.1	422.6	425.3	430.5	431.6
40°	405.3	406.4	409.5	415.3	415.3
42.5°	388.0	389.0	393.2	399.0	398.0
45°	368.6	371.7	377.0	380.1	375.4
47.5°	350.2	352.3	359.6	356.0	348.1
50°	329.2	333.4	340.7	327.6	320.3
52.5°	307.7	312.4	320.3	301.9	297.7
55°	286.1	291.9	294.5	279.3	275.1
57.5°	263.0	269.3	264.1	255.2	251.0
60°	239.9	247.3	239.4	231.0	228.4
62.5°	215.8	224.2	215.3	207.9	204.2
65°	190.1	201.6	191.1	183.8	180.6
67.5°	164.9	176.9	165.9	159.6	157.5
70°	141.2	148.1	142.8	136.5	132.3
72.5°	112.9	119.7	118.7	111.8	109.2
75°	89.8	96.1	94.0	88.2	85.6
77.5°	66.7	73.5	71.4	64.6	63.5
80°	47.8	52.5	48.8	42.5	40.4
82.5°	29.9	33.6	28.9	24.2	23.1
85°	15.8	16.8	13.7	12.1	11.6
87.5°	5.3	5.8	5.8	5.3	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)