

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: P259110

Luminaire Tested: **14CZ-LD5-25-SQP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259110
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-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1498.0 lumens
Efficiency: N/A
Efficacy: 82.6 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

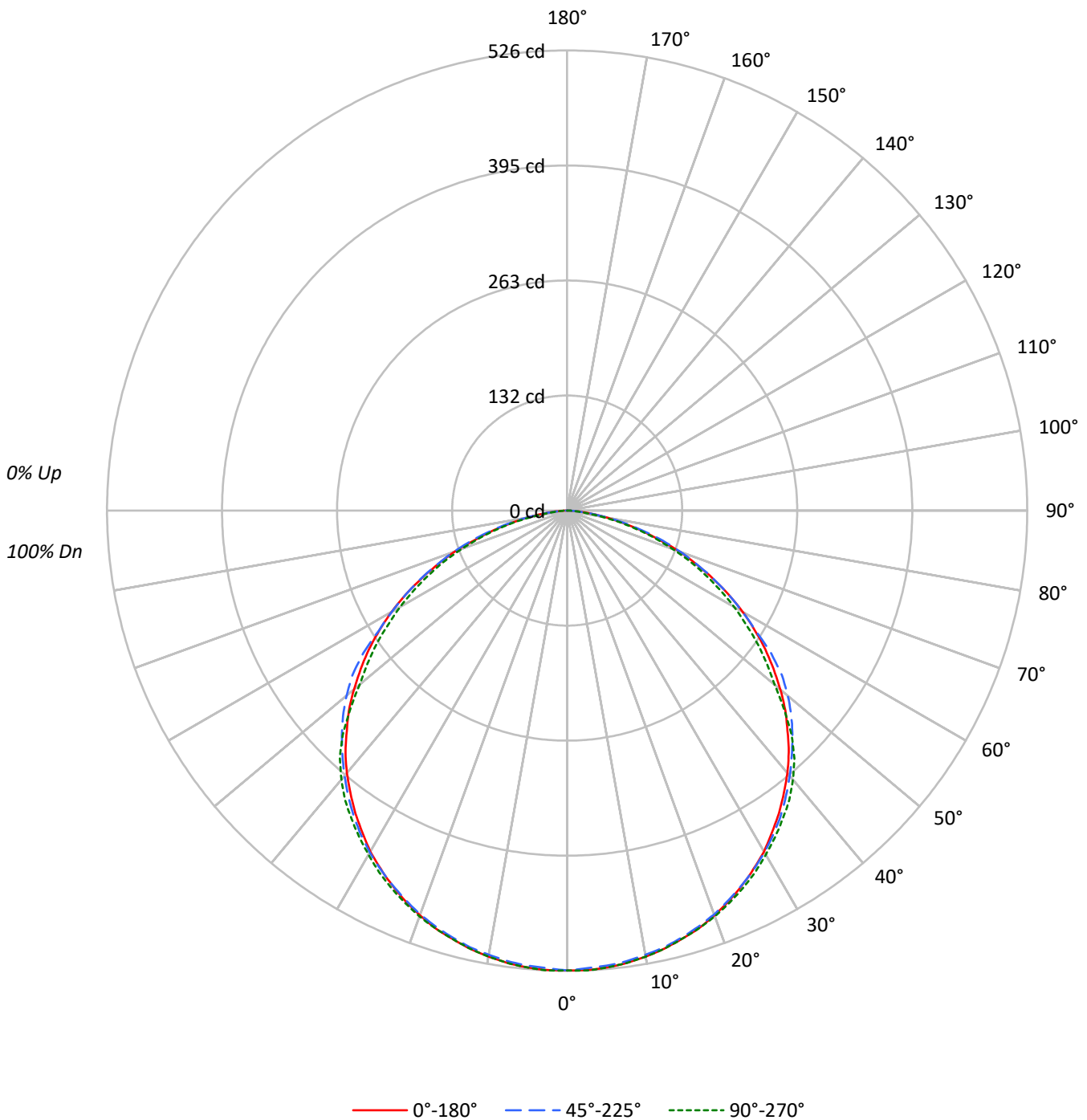
Input Watts (W): 18.135
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259110

CATALOG NUMBER: 14CZ-LD5-25-SQP-UNV-L82765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P259110

CATALOG NUMBER: 14CZ-LD5-25-SQP-UNV-L82765-W2A1-U-3000K

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°	1415	1415	1415
5°	1416	1410	1416
10°	1414	1409	1414
15°	1412	1408	1412
20°	1410	1407	1414
25°	1404	1403	1413
30°	1399	1402	1411
35°	1387	1398	1412
40°	1376	1390	1410
45°	1356	1386	1381
50°	1332	1379	1296
55°	1297	1336	1247
60°	1248	1245	1188
65°	1170	1176	1111
70°	1074	1086	1006
75°	902	944	860
80°	716	731	606
85°	469	408	346



TEST NUMBER: P259110

CATALOG NUMBER: 14CZ-LD5-25-SQP-UNV-L82765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.8	3.3
10°-20°	143.1	9.6
20°-30°	218.5	14.6
30°-40°	266.6	17.8
40°-50°	278.7	18.6
50°-60°	246.8	16.5
60°-70°	181.7	12.1
70°-80°	94.1	6.3
80°-90°	18.7	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°	411.3	27.5
0°-40°	677.9	45.3
0°-60°	1203.4	80.3
0°-90°	1498.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1498.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	526	526	526	526	526	
5°	524	524	522	524	524	50
15°	507	507	505	507	507	143
25°	473	473	472	475	476	218
35°	422	423	426	430	430	264
45°	356	359	364	367	363	275
55°	276	282	285	270	266	247
65°	184	195	185	178	174	182
75°	87	93	91	85	83	93
85°	15	16	13	12	11	20
90°	0	0	0	0	0	



TEST NUMBER: P259110

CATALOG NUMBER: 14CZ-LD5-25-SQP-UNV-L82765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	525.7	525.7	525.7	525.7	525.7
2.5°	525.7	525.7	523.6	525.7	526.2
5°	524.2	524.2	522.1	524.2	524.2
7.5°	521.6	521.1	519.6	521.6	521.6
10°	517.6	517.6	515.5	518.1	517.6
12.5°	513.0	512.5	511.5	513.5	513.0
15°	506.9	506.9	505.4	507.4	506.9
17.5°	500.8	500.3	498.8	500.8	500.8
20°	492.2	491.7	491.2	493.2	493.7
22.5°	483.1	482.5	482.0	485.1	485.1
25°	472.9	472.9	472.4	475.4	475.9
27.5°	461.7	461.7	462.2	466.3	465.8
30°	450.1	450.1	451.1	454.1	454.1
32.5°	435.9	436.9	438.9	442.5	442.5
35°	422.2	423.2	425.7	429.8	429.8
37.5°	406.9	408.5	411.0	416.1	417.1
40°	391.7	392.7	395.8	401.4	401.4
42.5°	375.0	376.0	380.0	385.6	384.6
45°	356.2	359.2	364.3	367.4	362.8
47.5°	338.4	340.5	347.6	344.0	336.4
50°	318.1	322.2	329.3	316.6	309.5
52.5°	297.3	301.9	309.5	291.8	287.7
55°	276.5	282.1	284.7	269.9	265.9
57.5°	254.2	260.3	255.2	246.6	242.5
60°	231.9	239.0	231.4	223.3	220.7
62.5°	208.5	216.7	208.0	200.9	197.4
65°	183.7	194.8	184.7	177.6	174.5
67.5°	159.3	171.0	160.3	154.3	152.2
70°	136.5	143.1	138.0	131.9	127.9
72.5°	109.1	115.7	114.7	108.1	105.5
75°	86.8	92.9	90.8	85.2	82.7
77.5°	64.4	71.0	69.0	62.4	61.4
80°	46.2	50.7	47.2	41.1	39.1
82.5°	28.9	32.5	27.9	23.3	22.3
85°	15.2	16.2	13.2	11.7	11.2
87.5°	5.1	5.6	5.6	5.1	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)