

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: P258613

Luminaire Tested: **14CZ-LD5-25-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258613
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-25-UNV-L82765-W2A1-U-6500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2571.0 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

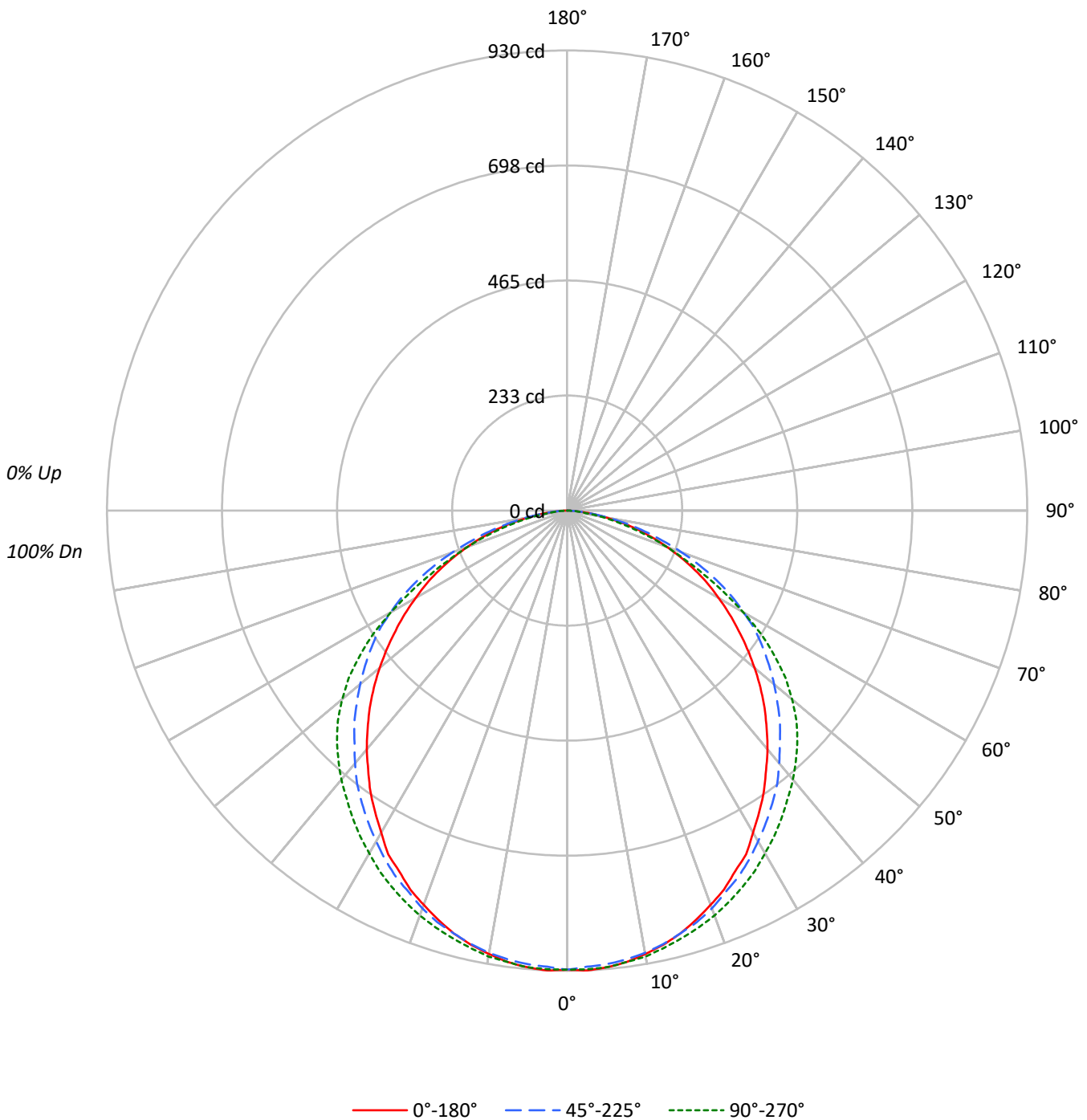
Input Watts (W): 19.065
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258613

CATALOG NUMBER: 14CZ-LD5-25-UNV-L82765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P258613

CATALOG NUMBER: 14CZ-LD5-25-UNV-L82765-W2A1-U-6500K

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	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2497	2497	2497
5°	2503	2486	2503
10°	2487	2480	2501
15°	2465	2465	2493
20°	2428	2450	2494
25°	2386	2427	2491
30°	2335	2399	2485
35°	2278	2373	2486
40°	2213	2342	2493
45°	2146	2315	2503
50°	2069	2287	2483
55°	1986	2266	2403
60°	1903	2217	2210
65°	1816	2122	1937
70°	1685	1935	1675
75°	1528	1686	1384
80°	1218	1336	1021
85°	861	744	587



TEST NUMBER: P258613

CATALOG NUMBER: 14CZ-LD5-25-UNV-L82765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.8	3.4
10°-20°	250.8	9.8
20°-30°	378.1	14.7
30°-40°	453.2	17.6
40°-50°	470.4	18.3
50°-60°	424.2	16.5
60°-70°	309.5	12.0
70°-80°	162.4	6.3
80°-90°	34.6	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°	716.7	27.9
0°-40°	1169.9	45.5
0°-60°	2064.5	80.3
0°-90°	2571.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2571.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	928	928	928	928	928	
5°	926	924	920	926	926	88
15°	885	885	885	895	895	249
25°	804	807	818	835	839	371
35°	693	701	722	749	757	433
45°	564	575	608	645	658	435
55°	423	439	483	515	512	379
65°	285	302	333	321	304	282
75°	147	167	162	141	133	154
85°	28	34	24	20	19	36
90°	0	0	0	0	0	



TEST NUMBER: P258613

CATALOG NUMBER: 14CZ-LD5-25-UNV-L82765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	927.8	927.8	927.8	927.8	927.8
2.5°	930.3	927.8	922.7	927.8	927.8
5°	926.5	924.0	920.2	926.5	926.5
7.5°	920.2	917.7	915.1	921.5	920.2
10°	910.1	908.8	907.5	915.1	915.1
12.5°	898.6	898.6	897.4	906.3	905.0
15°	884.7	884.7	884.7	894.8	894.8
17.5°	867.0	869.5	872.0	883.4	883.4
20°	847.9	850.5	855.6	869.5	870.8
22.5°	828.9	830.2	835.3	851.8	855.6
25°	803.6	807.4	817.5	835.3	839.1
27.5°	783.3	784.6	796.0	816.3	821.3
30°	751.6	760.5	771.9	794.7	799.8
32.5°	722.5	730.1	747.8	771.9	779.5
35°	693.3	700.9	722.5	749.1	756.7
37.5°	660.4	671.8	697.1	723.7	732.6
40°	629.9	640.1	666.7	699.7	709.8
42.5°	597.0	607.1	636.3	673.0	684.4
45°	564.0	575.4	608.4	645.2	657.8
47.5°	529.8	542.5	576.7	617.3	628.7
50°	494.3	508.3	546.3	588.1	593.2
52.5°	458.8	474.0	514.6	551.4	556.4
55°	423.3	438.6	482.9	514.6	512.1
57.5°	389.1	405.6	451.2	467.7	465.2
60°	353.6	371.4	411.9	419.5	410.7
62.5°	320.7	337.2	375.2	368.8	357.4
65°	285.2	301.7	333.3	320.7	304.2
67.5°	249.7	270.0	290.3	268.7	256.0
70°	214.2	237.0	245.9	224.3	212.9
72.5°	180.0	204.1	201.5	180.0	172.4
75°	147.0	167.3	162.2	140.7	133.1
77.5°	111.5	134.4	122.9	105.2	98.9
80°	78.6	98.9	86.2	71.0	65.9
82.5°	52.0	65.9	53.2	41.8	38.0
85°	27.9	34.2	24.1	20.3	19.0
87.5°	11.4	10.1	8.9	8.9	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)