

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: P258661

Luminaire Tested: **14CZ-LD5-25-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258661
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-L92765-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2105.0 lumens
Efficiency: N/A
Efficacy: 115.5 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

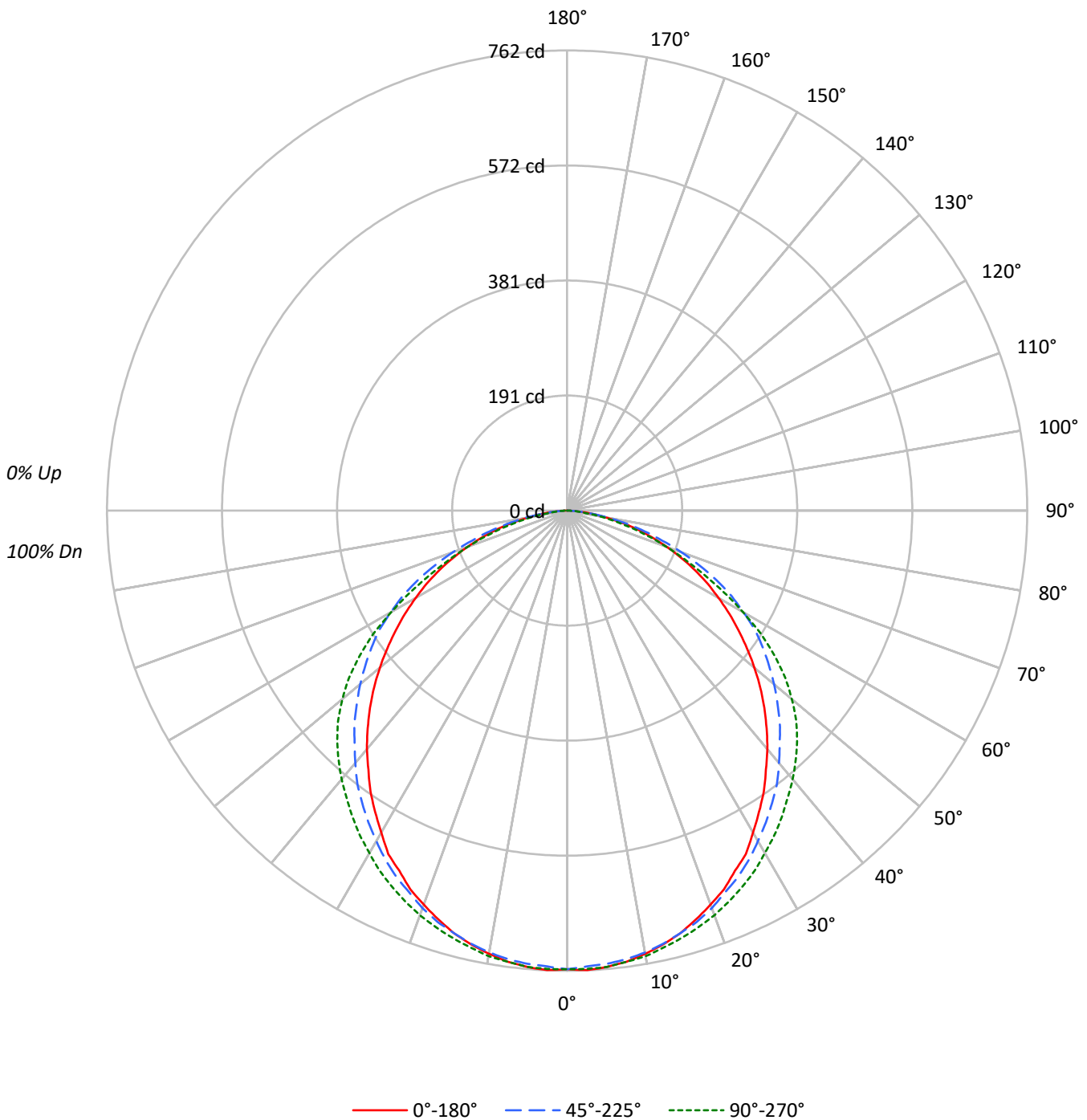
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258661

CATALOG NUMBER: 14CZ-LD5-25-UNV-L92765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P258661

CATALOG NUMBER: 14CZ-LD5-25-UNV-L92765-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	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°	2044	2044	2044
5°	2049	2035	2049
10°	2036	2030	2047
15°	2018	2018	2041
20°	1988	2006	2042
25°	1953	1988	2040
30°	1912	1964	2035
35°	1865	1943	2035
40°	1812	1918	2041
45°	1757	1896	2050
50°	1694	1873	2033
55°	1626	1855	1967
60°	1558	1815	1809
65°	1487	1738	1586
70°	1380	1584	1371
75°	1252	1381	1133
80°	996	1094	837
85°	704	608	482



TEST NUMBER: P258661

CATALOG NUMBER: 14CZ-LD5-25-UNV-L92765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.9	3.4
10°-20°	205.3	9.8
20°-30°	309.6	14.7
30°-40°	371.1	17.6
40°-50°	385.1	18.3
50°-60°	347.3	16.5
60°-70°	253.4	12.0
70°-80°	132.9	6.3
80°-90°	28.4	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°	586.8	27.9
0°-40°	957.9	45.5
0°-60°	1690.3	80.3
0°-90°	2105.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2105.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	760	760	760	760	760	
5°	759	756	753	759	759	72
15°	724	724	724	733	733	204
25°	658	661	669	684	687	304
35°	568	574	592	613	620	355
45°	462	471	498	528	539	356
55°	347	359	395	421	419	310
65°	234	247	273	263	249	231
75°	120	137	133	115	109	126
85°	23	28	20	17	16	29
90°	0	0	0	0	0	



TEST NUMBER: P258661

CATALOG NUMBER: 14CZ-LD5-25-UNV-L92765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	759.6	759.6	759.6	759.6	759.6
2.5°	761.7	759.6	755.5	759.6	759.6
5°	758.6	756.5	753.4	758.6	758.6
7.5°	753.4	751.3	749.3	754.4	753.4
10°	745.1	744.1	743.0	749.3	749.3
12.5°	735.8	735.8	734.7	742.0	741.0
15°	724.4	724.4	724.4	732.7	732.7
17.5°	709.8	711.9	714.0	723.3	723.3
20°	694.3	696.3	700.5	711.9	712.9
22.5°	678.7	679.7	683.9	697.4	700.5
25°	657.9	661.0	669.4	683.9	687.0
27.5°	641.3	642.4	651.7	668.3	672.5
30°	615.4	622.7	632.0	650.7	654.8
32.5°	591.5	597.7	612.3	632.0	638.2
35°	567.7	573.9	591.5	613.3	619.5
37.5°	540.7	550.0	570.8	592.6	599.8
40°	515.8	524.1	545.9	572.8	581.1
42.5°	488.8	497.1	521.0	551.0	560.4
45°	461.8	471.1	498.1	528.2	538.6
47.5°	433.8	444.2	472.2	505.4	514.7
50°	404.7	416.1	447.3	481.5	485.7
52.5°	375.7	388.1	421.3	451.4	455.6
55°	346.6	359.1	395.4	421.3	419.3
57.5°	318.6	332.1	369.4	382.9	380.9
60°	289.5	304.1	337.3	343.5	336.2
62.5°	262.6	276.0	307.2	302.0	292.6
65°	233.5	247.0	272.9	262.6	249.1
67.5°	204.4	221.0	237.6	220.0	209.6
70°	175.4	194.1	201.3	183.7	174.3
72.5°	147.4	167.1	165.0	147.4	141.1
75°	120.4	137.0	132.8	115.2	109.0
77.5°	91.3	110.0	100.7	86.1	80.9
80°	64.3	80.9	70.6	58.1	54.0
82.5°	42.5	54.0	43.6	34.2	31.1
85°	22.8	28.0	19.7	16.6	15.6
87.5°	9.3	8.3	7.3	7.3	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)