

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: P258686

Luminaire Tested: **14CZ-LD5-39-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258686
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-LD5-39-UNV-L92765-W2A1-U-2700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3057.0 lumens
Efficiency: N/A
Efficacy: 99.0 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

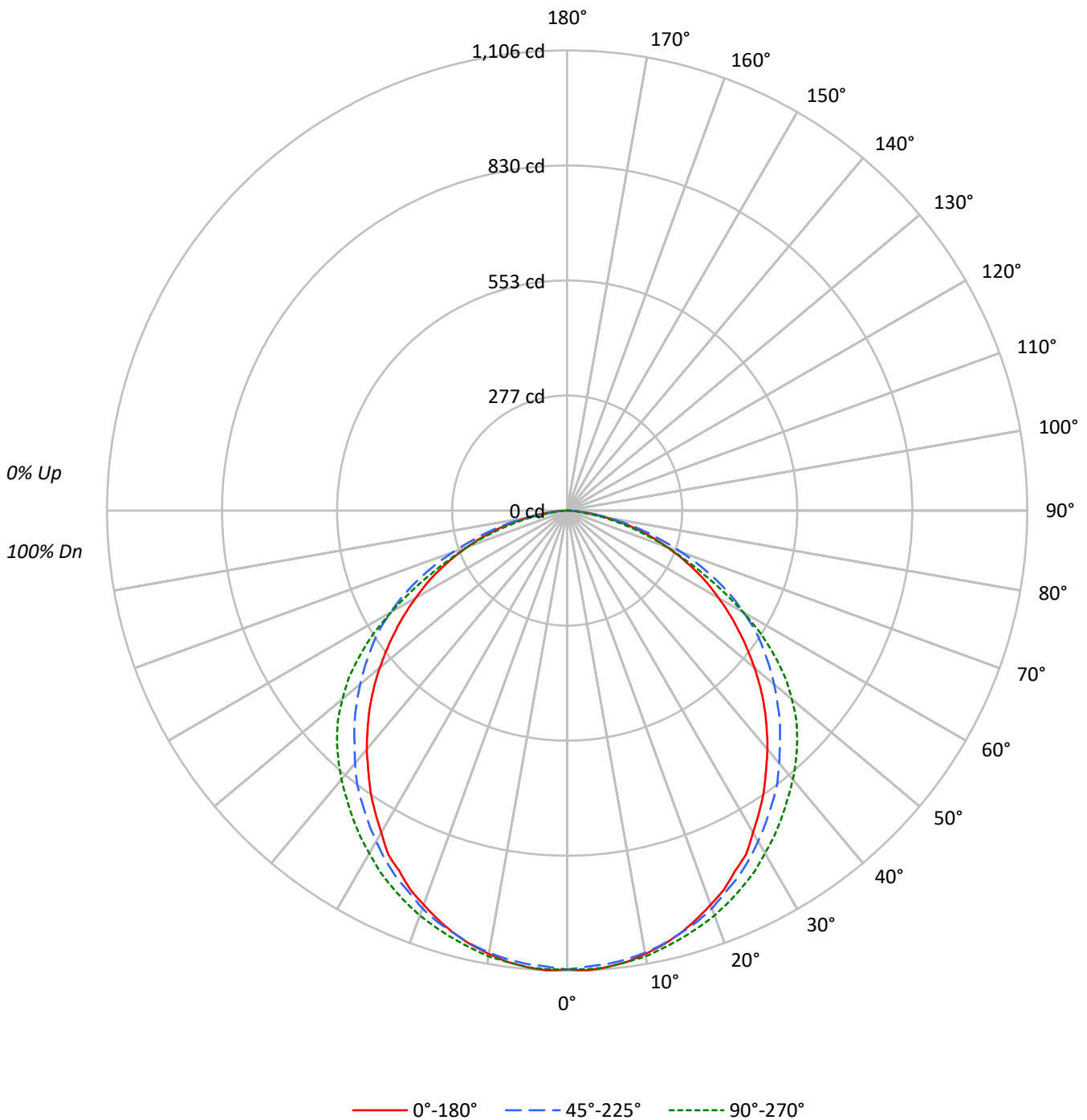
Input Watts (W): 30.876
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258686

CATALOG NUMBER: 14CZ-LD5-39-UNV-L92765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P258686

CATALOG NUMBER: 14CZ-LD5-39-UNV-L92765-W2A1-U-2700K

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°	2969	2969	2969
5°	2976	2955	2976
10°	2957	2949	2973
15°	2930	2930	2964
20°	2887	2913	2965
25°	2837	2886	2962
30°	2777	2852	2955
35°	2708	2822	2956
40°	2631	2785	2965
45°	2552	2753	2977
50°	2461	2719	2953
55°	2362	2694	2857
60°	2263	2636	2628
65°	2159	2524	2303
70°	2004	2301	1992
75°	1817	2006	1645
80°	1447	1588	1215
85°	1025	883	698



TEST NUMBER: P258686

CATALOG NUMBER: 14CZ-LD5-39-UNV-L92765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	3.4
10°-20°	298.2	9.8
20°-30°	449.6	14.7
30°-40°	538.9	17.6
40°-50°	559.3	18.3
50°-60°	504.4	16.5
60°-70°	368.0	12.0
70°-80°	193.1	6.3
80°-90°	41.2	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°	852.2	27.9
0°-40°	1391.1	45.5
0°-60°	2454.8	80.3
0°-90°	3057.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3057.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1103	1103	1103	1103	1103	
5°	1102	1099	1094	1102	1102	105
15°	1052	1052	1052	1064	1064	296
25°	956	960	972	993	998	441
35°	824	833	859	891	900	515
45°	671	684	723	767	782	517
55°	503	522	574	612	609	451
65°	339	359	396	381	362	335
75°	175	199	193	167	158	183
85°	33	41	29	24	23	42
90°	0	0	0	0	0	



TEST NUMBER: P258686

CATALOG NUMBER: 14CZ-LD5-39-UNV-L92765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1103.2	1103.2	1103.2	1103.2	1103.2
2.5°	1106.2	1103.2	1097.2	1103.2	1103.2
5°	1101.7	1098.7	1094.1	1101.7	1101.7
7.5°	1094.1	1091.1	1088.1	1095.6	1094.1
10°	1082.1	1080.6	1079.1	1088.1	1088.1
12.5°	1068.5	1068.5	1067.0	1077.6	1076.1
15°	1051.9	1051.9	1051.9	1064.0	1064.0
17.5°	1030.8	1033.9	1036.9	1050.4	1050.4
20°	1008.2	1011.3	1017.3	1033.9	1035.4
22.5°	985.6	987.1	993.2	1012.8	1017.3
25°	955.5	960.0	972.1	993.2	997.7
27.5°	931.4	932.9	946.4	970.6	976.6
30°	893.7	904.2	917.8	944.9	951.0
32.5°	859.0	868.1	889.2	917.8	926.9
35°	824.4	833.4	859.0	890.7	899.7
37.5°	785.2	798.8	828.9	860.5	871.1
40°	749.0	761.1	792.7	831.9	844.0
42.5°	709.8	721.9	756.6	800.3	813.8
45°	670.7	684.2	723.4	767.1	782.2
47.5°	630.0	645.0	685.7	733.9	747.5
50°	587.8	604.3	649.6	699.3	705.3
52.5°	545.6	563.6	611.9	655.6	661.6
55°	503.4	521.5	574.2	611.9	608.9
57.5°	462.7	482.3	536.5	556.1	553.1
60°	420.5	441.6	489.8	498.8	488.3
62.5°	381.3	400.9	446.1	438.6	425.0
65°	339.1	358.7	396.4	381.3	361.7
67.5°	296.9	321.0	345.1	319.5	304.4
70°	254.7	281.8	292.4	266.8	253.2
72.5°	214.0	242.6	239.6	214.0	205.0
75°	174.8	198.9	192.9	167.3	158.2
77.5°	132.6	159.8	146.2	125.1	117.6
80°	93.4	117.6	102.5	84.4	78.4
82.5°	61.8	78.4	63.3	49.7	45.2
85°	33.2	40.7	28.6	24.1	22.6
87.5°	13.6	12.1	10.5	10.5	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)