

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: P259195

Luminaire Tested: **14CZ-LD5-39-SQP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259195
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-LD5-39-SQP-UNV-L92765-W2A1-U-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2326.0 lumens
Efficiency: N/A
Efficacy: 73.3 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

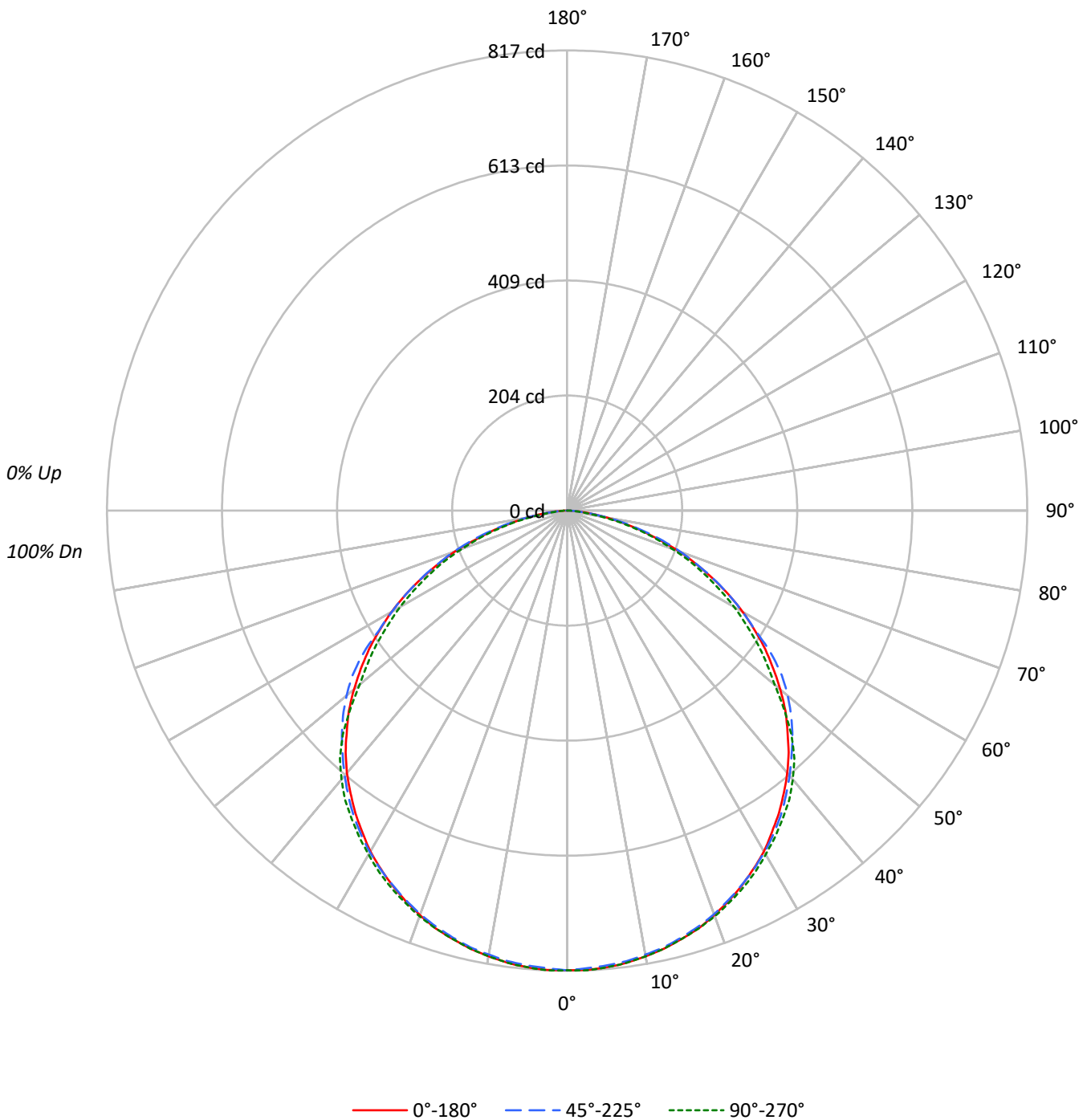
Input Watts (W): 31.713
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259195

CATALOG NUMBER: 14CZ-LD5-39-SQP-UNV-L92765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P259195

CATALOG NUMBER: 14CZ-LD5-39-SQP-UNV-L92765-W2A1-U-5000K

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°	2196	2196	2196
5°	2199	2190	2199
10°	2196	2187	2196
15°	2193	2186	2193
20°	2188	2184	2195
25°	2180	2178	2194
30°	2171	2176	2191
35°	2153	2171	2192
40°	2136	2159	2189
45°	2105	2153	2144
50°	2068	2141	2012
55°	2015	2074	1937
60°	1938	1934	1844
65°	1816	1826	1726
70°	1667	1686	1562
75°	1400	1466	1335
80°	1111	1136	941
85°	729	633	534



TEST NUMBER: P259195

CATALOG NUMBER: 14CZ-LD5-39-SQP-UNV-L92765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.3	3.3
10°-20°	222.2	9.6
20°-30°	339.2	14.6
30°-40°	413.9	17.8
40°-50°	432.8	18.6
50°-60°	383.2	16.5
60°-70°	282.2	12.1
70°-80°	146.1	6.3
80°-90°	29.1	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°	638.7	27.5
0°-40°	1052.6	45.3
0°-60°	1868.6	80.3
0°-90°	2326.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2326.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	816	816	816	816	816	
5°	814	814	811	814	814	77
15°	787	787	785	788	787	222
25°	734	734	734	738	739	338
35°	656	657	661	667	667	410
45°	553	558	566	570	563	427
55°	429	438	442	419	413	383
65°	285	302	287	276	271	283
75°	135	144	141	132	128	144
85°	24	25	20	18	17	31
90°	0	0	0	0	0	



TEST NUMBER: P259195

CATALOG NUMBER: 14CZ-LD5-39-SQP-UNV-L92765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	816.2	816.2	816.2	816.2	816.2
2.5°	816.2	816.2	813.1	816.2	817.0
5°	813.9	813.9	810.7	813.9	813.9
7.5°	809.9	809.1	806.8	809.9	809.9
10°	803.6	803.6	800.5	804.4	803.6
12.5°	796.5	795.7	794.2	797.3	796.5
15°	787.1	787.1	784.7	787.9	787.1
17.5°	777.6	776.8	774.5	777.6	777.6
20°	764.2	763.4	762.7	765.8	766.6
22.5°	750.1	749.3	748.5	753.2	753.2
25°	734.3	734.3	733.5	738.2	739.0
27.5°	717.0	717.0	717.8	724.1	723.3
30°	698.8	698.8	700.4	705.1	705.1
32.5°	676.8	678.4	681.5	687.0	687.0
35°	655.5	657.1	661.0	667.3	667.3
37.5°	631.9	634.2	638.2	646.1	647.6
40°	608.2	609.8	614.5	623.2	623.2
42.5°	582.2	583.8	590.1	598.8	597.2
45°	553.1	557.8	565.7	570.4	563.3
47.5°	525.5	528.7	539.7	534.2	522.4
50°	494.0	500.3	511.3	491.6	480.6
52.5°	461.7	468.8	480.6	453.0	446.7
55°	429.4	438.1	442.0	419.1	412.8
57.5°	394.7	404.2	396.3	382.9	376.6
60°	360.1	371.1	359.3	346.7	342.7
62.5°	323.8	336.4	323.0	312.0	306.5
65°	285.2	302.5	286.8	275.8	271.0
67.5°	247.4	265.5	249.0	239.5	236.4
70°	211.9	222.2	214.3	204.8	198.5
72.5°	169.4	179.6	178.1	167.8	163.9
75°	134.7	144.2	141.0	132.4	128.4
77.5°	100.1	110.3	107.2	96.9	95.3
80°	71.7	78.8	73.3	63.8	60.7
82.5°	44.9	50.4	43.3	36.2	34.7
85°	23.6	25.2	20.5	18.1	17.3
87.5°	7.9	8.7	8.7	7.9	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)