

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: P259200

Luminaire Tested: **14CZ-LD5-44-SQP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259200
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-LD5-44-SQP-UNV-L92765-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2293.0 lumens
Efficiency: N/A
Efficacy: 65.1 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

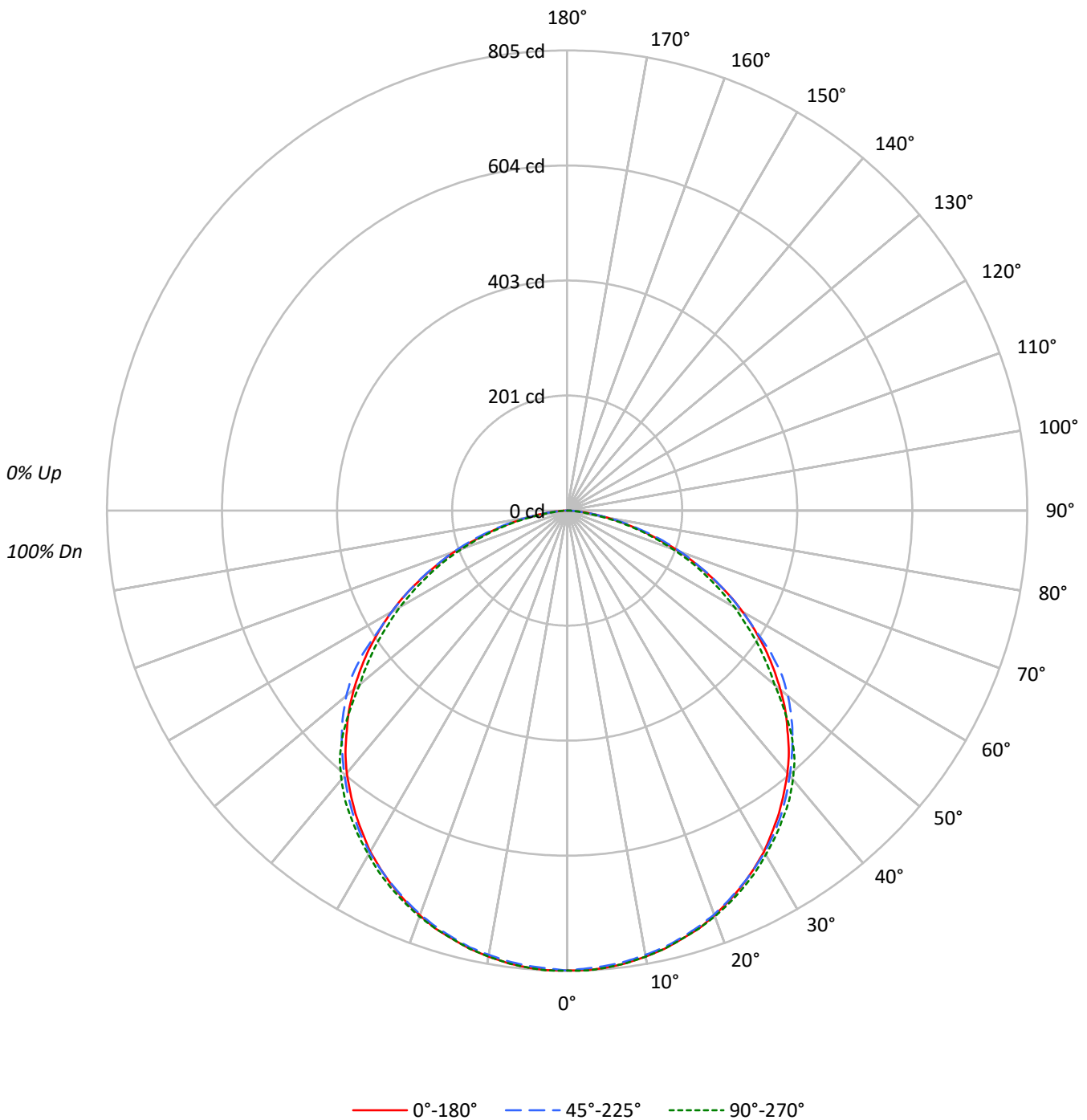
Input Watts (W): 35.247
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259200

CATALOG NUMBER: 14CZ-LD5-44-SQP-UNV-L92765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P259200

CATALOG NUMBER: 14CZ-LD5-44-SQP-UNV-L92765-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°	2165	2165	2165
5°	2167	2159	2167
10°	2165	2156	2165
15°	2162	2155	2162
20°	2157	2153	2164
25°	2149	2147	2163
30°	2141	2146	2160
35°	2123	2141	2161
40°	2106	2128	2158
45°	2075	2122	2113
50°	2039	2110	1984
55°	1986	2044	1909
60°	1910	1906	1819
65°	1791	1800	1701
70°	1644	1662	1540
75°	1381	1445	1316
80°	1096	1119	927
85°	719	624	528



TEST NUMBER: P259200

CATALOG NUMBER: 14CZ-LD5-44-SQP-UNV-L92765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.2	3.3
10°-20°	219.0	9.6
20°-30°	334.4	14.6
30°-40°	408.0	17.8
40°-50°	426.7	18.6
50°-60°	377.7	16.5
60°-70°	278.2	12.1
70°-80°	144.0	6.3
80°-90°	28.7	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°	629.6	27.5
0°-40°	1037.7	45.3
0°-60°	1842.1	80.3
0°-90°	2293.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2293.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	805	805	805	805	805	
5°	802	802	799	802	802	76
15°	776	776	774	777	776	219
25°	724	724	723	728	728	334
35°	646	648	652	658	658	404
45°	545	550	558	562	555	421
55°	423	432	436	413	407	378
65°	281	298	283	272	267	279
75°	133	142	139	130	127	142
85°	23	25	20	18	17	30
90°	0	0	0	0	0	



TEST NUMBER: P259200

CATALOG NUMBER: 14CZ-LD5-44-SQP-UNV-L92765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	804.7	804.7	804.7	804.7	804.7
2.5°	804.7	804.7	801.5	804.7	805.4
5°	802.3	802.3	799.2	802.3	802.3
7.5°	798.4	797.7	795.3	798.4	798.4
10°	792.2	792.2	789.1	793.0	792.2
12.5°	785.2	784.5	782.9	786.0	785.2
15°	775.9	775.9	773.6	776.7	775.9
17.5°	766.6	765.8	763.5	766.6	766.6
20°	753.4	752.6	751.8	754.9	755.7
22.5°	739.4	738.6	737.9	742.5	742.5
25°	723.9	723.9	723.1	727.8	728.5
27.5°	706.8	706.8	707.6	713.8	713.0
30°	688.9	688.9	690.5	695.1	695.1
32.5°	667.2	668.7	671.8	677.3	677.3
35°	646.2	647.8	651.6	657.9	657.9
37.5°	622.9	625.2	629.1	636.9	638.4
40°	599.6	601.2	605.8	614.4	614.4
42.5°	574.0	575.5	581.7	590.3	588.7
45°	545.2	549.9	557.7	562.3	555.3
47.5°	518.1	521.2	532.0	526.6	514.9
50°	487.0	493.2	504.1	484.7	473.8
52.5°	455.1	462.1	473.8	446.6	440.4
55°	423.3	431.8	435.7	413.2	407.0
57.5°	389.1	398.4	390.7	377.5	371.3
60°	354.9	365.8	354.2	341.7	337.9
62.5°	319.2	331.6	318.4	307.6	302.1
65°	281.2	298.3	282.7	271.8	267.2
67.5°	243.9	261.7	245.4	236.1	233.0
70°	208.9	219.0	211.3	201.9	195.7
72.5°	167.0	177.1	175.5	165.4	161.6
75°	132.8	142.1	139.0	130.5	126.6
77.5°	98.6	108.7	105.6	95.5	94.0
80°	70.7	77.7	72.2	62.9	59.8
82.5°	44.3	49.7	42.7	35.7	34.2
85°	23.3	24.9	20.2	17.9	17.1
87.5°	7.8	8.5	8.5	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)