

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: P259183

Luminaire Tested: **14CZ-LD5-35-SQP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259183
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-LD5-35-SQP-UNV-L92765-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1951.0 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

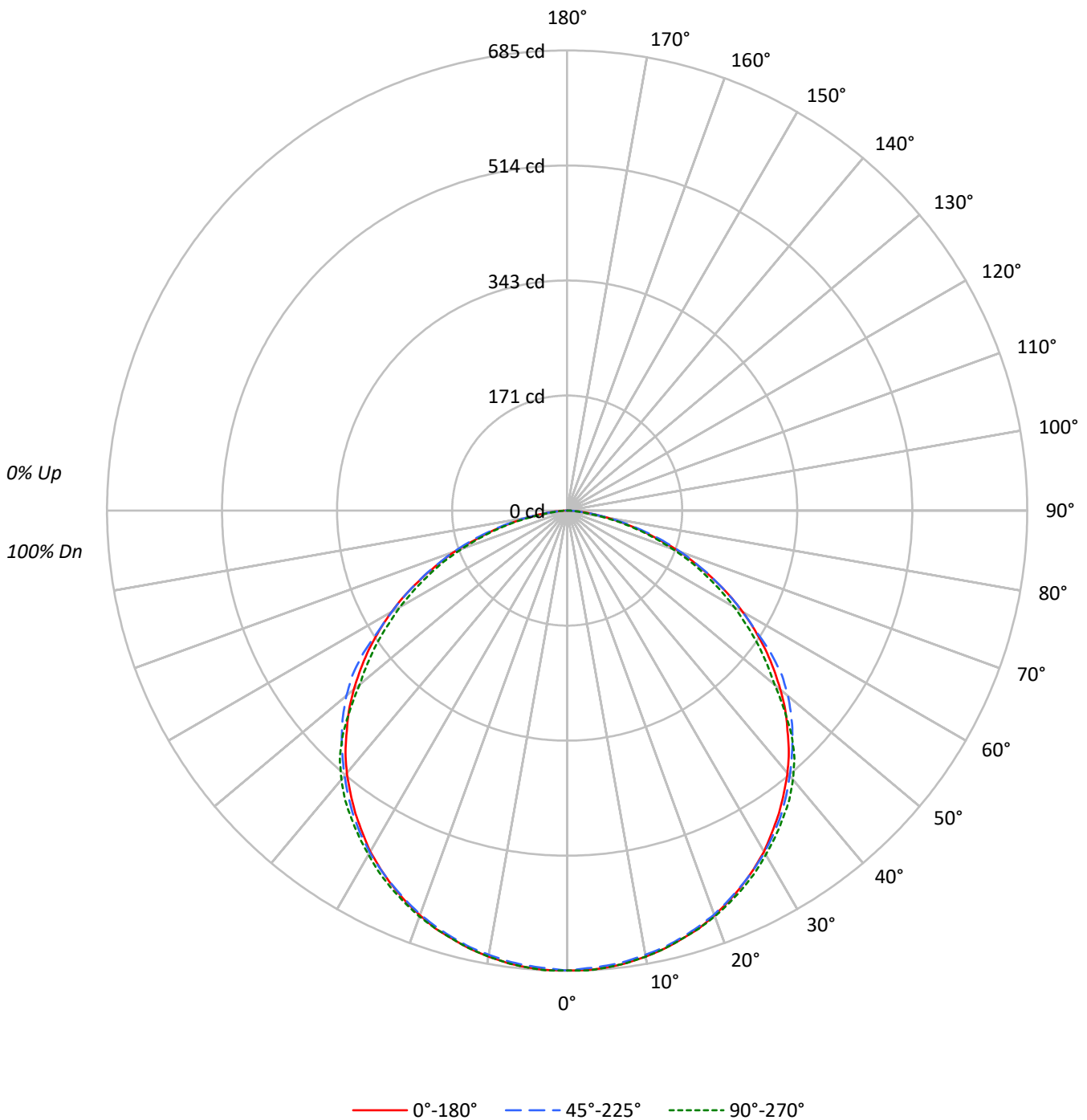
Input Watts (W): 27.528
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259183

CATALOG NUMBER: 14CZ-LD5-35-SQP-UNV-L92765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P259183

CATALOG NUMBER: 14CZ-LD5-35-SQP-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	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°	1842	1842	1842
5°	1844	1837	1844
10°	1842	1835	1842
15°	1839	1834	1839
20°	1836	1832	1841
25°	1829	1827	1841
30°	1821	1826	1838
35°	1806	1822	1839
40°	1792	1811	1836
45°	1765	1806	1798
50°	1735	1796	1688
55°	1690	1739	1625
60°	1625	1622	1547
65°	1523	1531	1447
70°	1399	1415	1310
75°	1175	1230	1120
80°	931	953	789
85°	611	531	448



TEST NUMBER: P259183

CATALOG NUMBER: 14CZ-LD5-35-SQP-UNV-L92765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.8	3.3
10°-20°	186.4	9.6
20°-30°	284.6	14.6
30°-40°	347.2	17.8
40°-50°	363.1	18.6
50°-60°	321.4	16.5
60°-70°	236.7	12.1
70°-80°	122.5	6.3
80°-90°	24.4	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°	535.7	27.5
0°-40°	882.9	45.3
0°-60°	1567.4	80.3
0°-90°	1951.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1951.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	685	685	685	685	685	
5°	683	683	680	683	683	65
15°	660	660	658	661	660	186
25°	616	616	615	619	620	284
35°	550	551	554	560	560	344
45°	464	468	474	478	472	358
55°	360	367	371	352	346	321
65°	239	254	240	231	227	237
75°	113	121	118	111	108	121
85°	20	21	17	15	14	26
90°	0	0	0	0	0	



TEST NUMBER: P259183

CATALOG NUMBER: 14CZ-LD5-35-SQP-UNV-L92765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	684.6	684.6	684.6	684.6	684.6
2.5°	684.6	684.6	682.0	684.6	685.3
5°	682.7	682.7	680.0	682.7	682.7
7.5°	679.4	678.7	676.7	679.4	679.4
10°	674.1	674.1	671.4	674.7	674.1
12.5°	668.1	667.5	666.1	668.8	668.1
15°	660.2	660.2	658.2	660.8	660.2
17.5°	652.3	651.6	649.6	652.3	652.3
20°	641.0	640.4	639.7	642.3	643.0
22.5°	629.1	628.5	627.8	631.8	631.8
25°	615.9	615.9	615.3	619.2	619.9
27.5°	601.4	601.4	602.0	607.3	606.7
30°	586.2	586.2	587.5	591.5	591.5
32.5°	567.7	569.0	571.6	576.3	576.3
35°	549.8	551.1	554.5	559.7	559.7
37.5°	530.0	532.0	535.3	541.9	543.2
40°	510.2	511.5	515.5	522.7	522.7
42.5°	488.4	489.7	495.0	502.2	500.9
45°	463.9	467.9	474.5	478.5	472.5
47.5°	440.8	443.4	452.7	448.1	438.1
50°	414.4	419.6	428.9	412.4	403.1
52.5°	387.3	393.2	403.1	380.0	374.7
55°	360.2	367.4	370.7	351.6	346.3
57.5°	331.1	339.0	332.4	321.2	315.9
60°	302.0	311.3	301.3	290.8	287.5
62.5°	271.6	282.2	270.9	261.7	257.1
65°	239.2	253.8	240.5	231.3	227.3
67.5°	207.5	222.7	208.8	200.9	198.3
70°	177.8	186.4	179.8	171.8	166.5
72.5°	142.1	150.7	149.4	140.8	137.5
75°	113.0	120.9	118.3	111.0	107.7
77.5°	83.9	92.5	89.9	81.3	80.0
80°	60.1	66.1	61.5	53.5	50.9
82.5°	37.7	42.3	36.3	30.4	29.1
85°	19.8	21.1	17.2	15.2	14.5
87.5°	6.6	7.3	7.3	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)