

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: P259199

Luminaire Tested: **14CZ-LD5-44-SQP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259199
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-2700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2204.0 lumens
Efficiency: N/A
Efficacy: 62.0 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

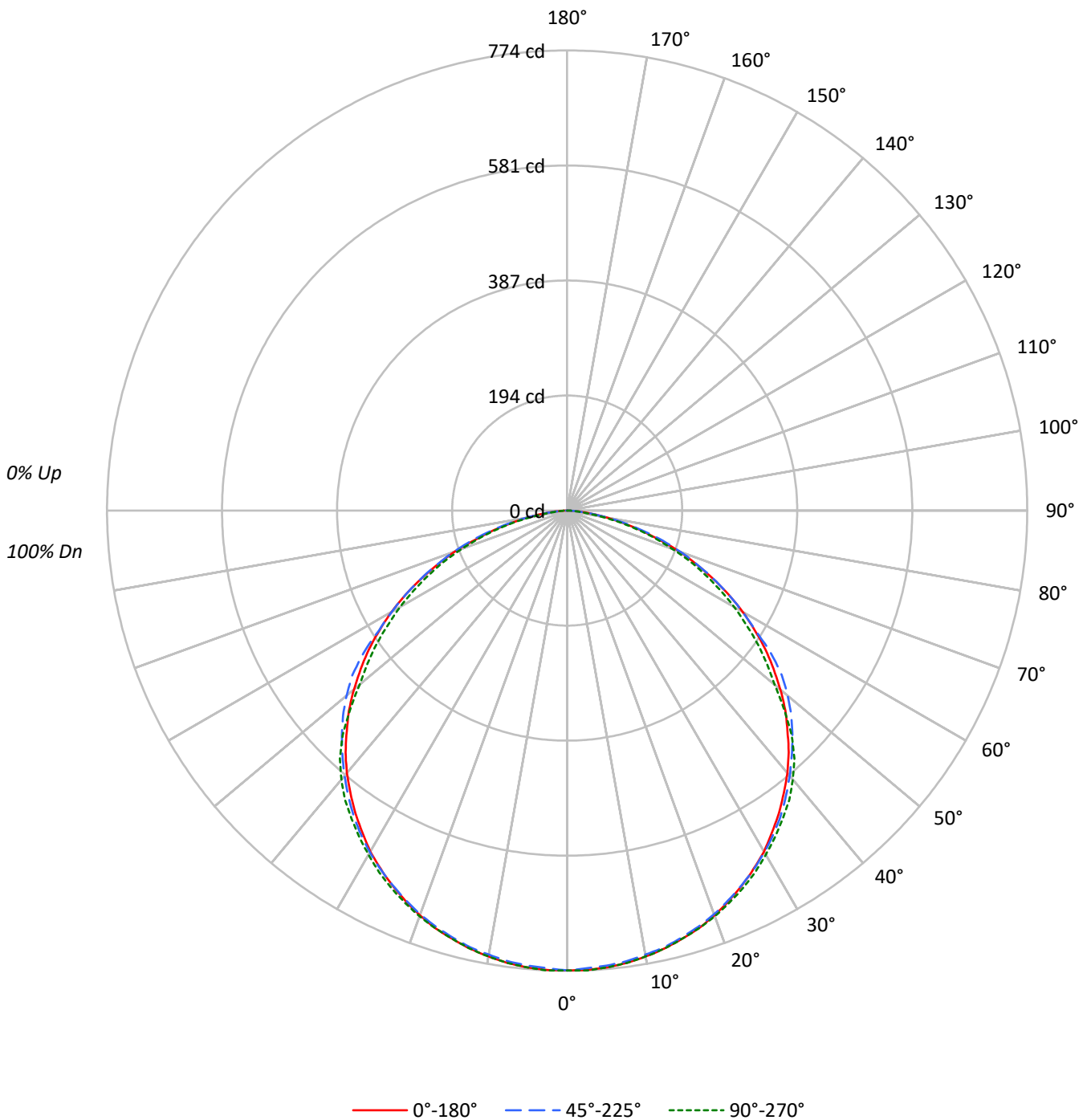
Input Watts (W): 35.526
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	2081	2081	2081
5°	2083	2075	2083
10°	2081	2073	2081
15°	2078	2072	2078
20°	2074	2070	2080
25°	2066	2064	2079
30°	2058	2062	2076
35°	2040	2058	2077
40°	2024	2046	2074
45°	1995	2040	2031
50°	1960	2028	1906
55°	1909	1965	1835
60°	1836	1832	1748
65°	1720	1730	1635
70°	1580	1598	1480
75°	1328	1389	1265
80°	1052	1075	891
85°	692	599	506



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	3.3
10°-20°	210.5	9.6
20°-30°	321.5	14.6
30°-40°	392.2	17.8
40°-50°	410.1	18.6
50°-60°	363.1	16.5
60°-70°	267.4	12.1
70°-80°	138.4	6.3
80°-90°	27.6	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°	605.2	27.5
0°-40°	997.4	45.3
0°-60°	1770.6	80.3
0°-90°	2204.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2204.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	773	773	773	773	773	
5°	771	771	768	771	771	73
15°	746	746	744	746	746	211
25°	696	696	695	700	700	321
35°	621	623	626	632	632	388
45°	524	529	536	540	534	405
55°	407	415	419	397	391	363
65°	270	287	272	261	257	268
75°	128	137	134	125	122	136
85°	22	24	19	17	16	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	773.4	773.4	773.4	773.4	773.4
2.5°	773.4	773.4	770.4	773.4	774.2
5°	771.2	771.2	768.2	771.2	771.2
7.5°	767.4	766.7	764.5	767.4	767.4
10°	761.5	761.5	758.5	762.2	761.5
12.5°	754.8	754.0	752.5	755.5	754.8
15°	745.8	745.8	743.6	746.5	745.8
17.5°	736.8	736.1	733.9	736.8	736.8
20°	724.2	723.4	722.7	725.6	726.4
22.5°	710.7	710.0	709.2	713.7	713.7
25°	695.8	695.8	695.0	699.5	700.3
27.5°	679.4	679.4	680.1	686.1	685.3
30°	662.2	662.2	663.7	668.2	668.2
32.5°	641.3	642.8	645.8	651.0	651.0
35°	621.1	622.6	626.4	632.3	632.3
37.5°	598.7	601.0	604.7	612.2	613.7
40°	576.3	577.8	582.3	590.5	590.5
42.5°	551.7	553.2	559.2	567.4	565.9
45°	524.1	528.6	536.0	540.5	533.8
47.5°	497.9	500.9	511.4	506.2	495.0
50°	468.1	474.1	484.5	465.8	455.4
52.5°	437.5	444.2	455.4	429.3	423.3
55°	406.9	415.1	418.8	397.2	391.2
57.5°	374.0	383.0	375.5	362.8	356.8
60°	341.2	351.6	340.4	328.5	324.7
62.5°	306.8	318.8	306.1	295.6	290.4
65°	270.2	286.7	271.7	261.3	256.8
67.5°	234.4	251.6	235.9	227.0	224.0
70°	200.8	210.5	203.1	194.1	188.1
72.5°	160.5	170.2	168.7	159.0	155.3
75°	127.7	136.6	133.6	125.4	121.7
77.5°	94.8	104.5	101.5	91.8	90.3
80°	67.9	74.7	69.4	60.5	57.5
82.5°	42.6	47.8	41.1	34.3	32.8
85°	22.4	23.9	19.4	17.2	16.4
87.5°	7.5	8.2	8.2	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)