

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: P259192

Luminaire Tested: **14CZ-LD5-39-SQP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259192
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-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: 2153.0 lumens
Efficiency: N/A
Efficacy: 69.3 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

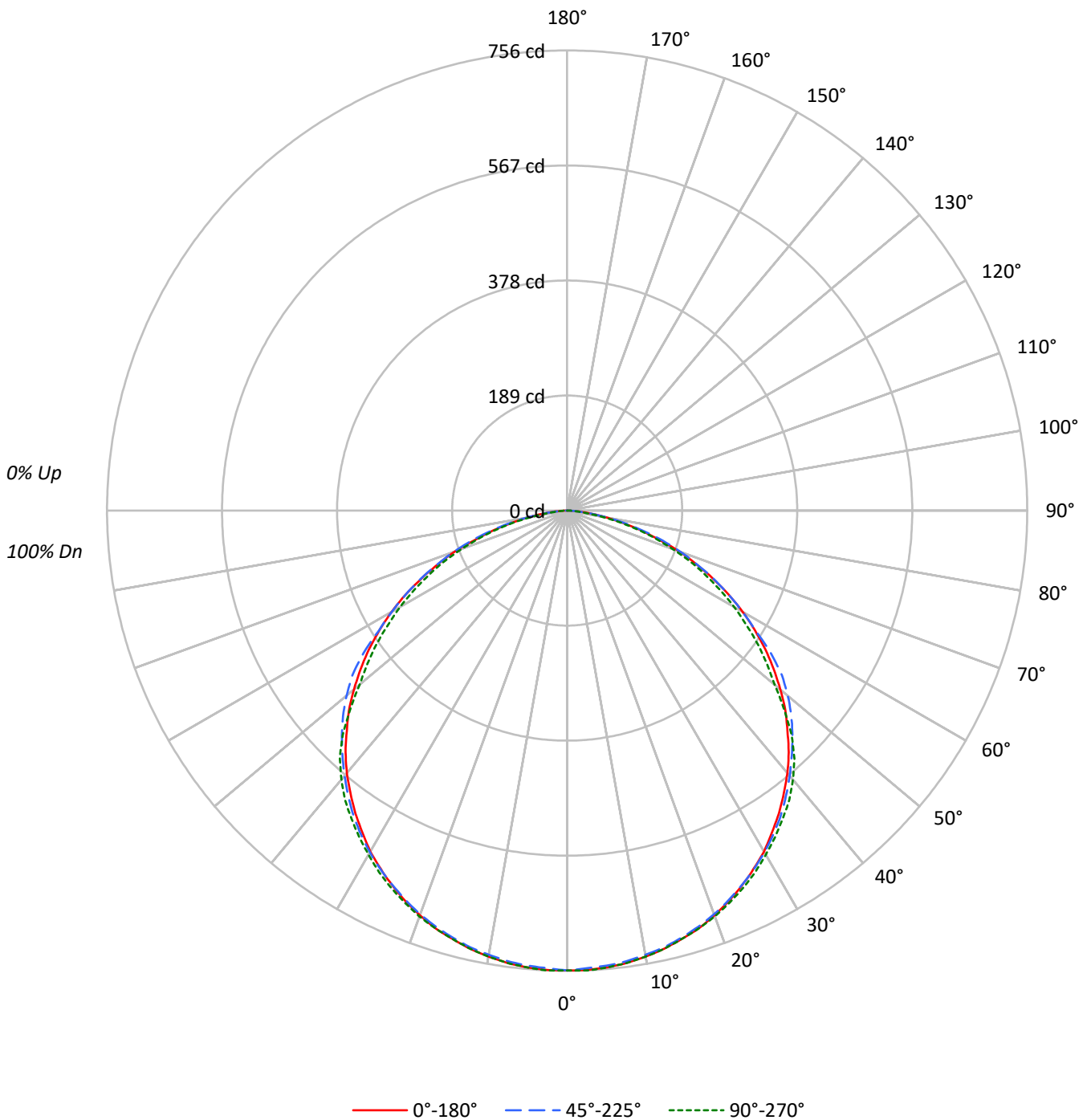
Input Watts (W): 31.062
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2033	2033	2033
5°	2035	2027	2035
10°	2033	2025	2033
15°	2030	2024	2030
20°	2026	2021	2032
25°	2018	2016	2031
30°	2010	2014	2028
35°	1993	2010	2029
40°	1978	1998	2027
45°	1948	1993	1984
50°	1914	1981	1863
55°	1865	1919	1793
60°	1794	1790	1707
65°	1681	1691	1598
70°	1544	1561	1446
75°	1297	1357	1236
80°	1029	1051	871
85°	676	587	494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.5	3.3
10°-20°	205.7	9.6
20°-30°	314.0	14.6
30°-40°	383.1	17.8
40°-50°	400.6	18.6
50°-60°	354.7	16.5
60°-70°	261.2	12.1
70°-80°	135.2	6.3
80°-90°	26.9	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°	591.2	27.5
0°-40°	974.3	45.3
0°-60°	1729.7	80.3
0°-90°	2153.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2153.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	756	756	756	756	756	
5°	753	753	750	753	753	72
15°	728	728	726	729	728	206
25°	680	680	679	683	684	313
35°	607	608	612	618	618	380
45°	512	516	524	528	521	395
55°	398	406	409	388	382	355
65°	264	280	266	255	251	262
75°	125	134	130	122	119	133
85°	22	23	19	17	16	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	755.5	755.5	755.5	755.5	755.5
2.5°	755.5	755.5	752.6	755.5	756.3
5°	753.3	753.3	750.4	753.3	753.3
7.5°	749.7	749.0	746.8	749.7	749.7
10°	743.9	743.9	740.9	744.6	743.9
12.5°	737.3	736.6	735.1	738.0	737.3
15°	728.5	728.5	726.4	729.3	728.5
17.5°	719.8	719.1	716.9	719.8	719.8
20°	707.4	706.7	705.9	708.9	709.6
22.5°	694.3	693.5	692.8	697.2	697.2
25°	679.7	679.7	679.0	683.3	684.1
27.5°	663.6	663.6	664.4	670.2	669.5
30°	646.9	646.9	648.3	652.7	652.7
32.5°	626.4	627.9	630.8	635.9	635.9
35°	606.8	608.2	611.9	617.7	617.7
37.5°	584.9	587.1	590.7	598.0	599.5
40°	563.0	564.5	568.8	576.9	576.9
42.5°	538.9	540.4	546.2	554.2	552.8
45°	511.9	516.3	523.6	528.0	521.4
47.5°	486.4	489.3	499.6	494.4	483.5
50°	457.3	463.1	473.3	455.1	444.9
52.5°	427.4	433.9	444.9	419.3	413.5
55°	397.5	405.5	409.1	388.0	382.1
57.5°	365.4	374.1	366.8	354.4	348.6
60°	333.3	343.5	332.5	320.9	317.2
62.5°	299.7	311.4	299.0	288.8	283.7
65°	264.0	280.0	265.5	255.2	250.9
67.5°	229.0	245.8	230.4	221.7	218.8
70°	196.2	205.7	198.4	189.6	183.8
72.5°	156.8	166.3	164.8	155.3	151.7
75°	124.7	133.5	130.5	122.5	118.9
77.5°	92.6	102.1	99.2	89.7	88.2
80°	66.4	72.9	67.8	59.1	56.2
82.5°	41.6	46.7	40.1	33.5	32.1
85°	21.9	23.3	19.0	16.8	16.0
87.5°	7.3	8.0	8.0	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)