

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: P259184

Luminaire Tested: **14CZ-LD5-35-SQP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259184
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-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2014.0 lumens
Efficiency: N/A
Efficacy: 72.7 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

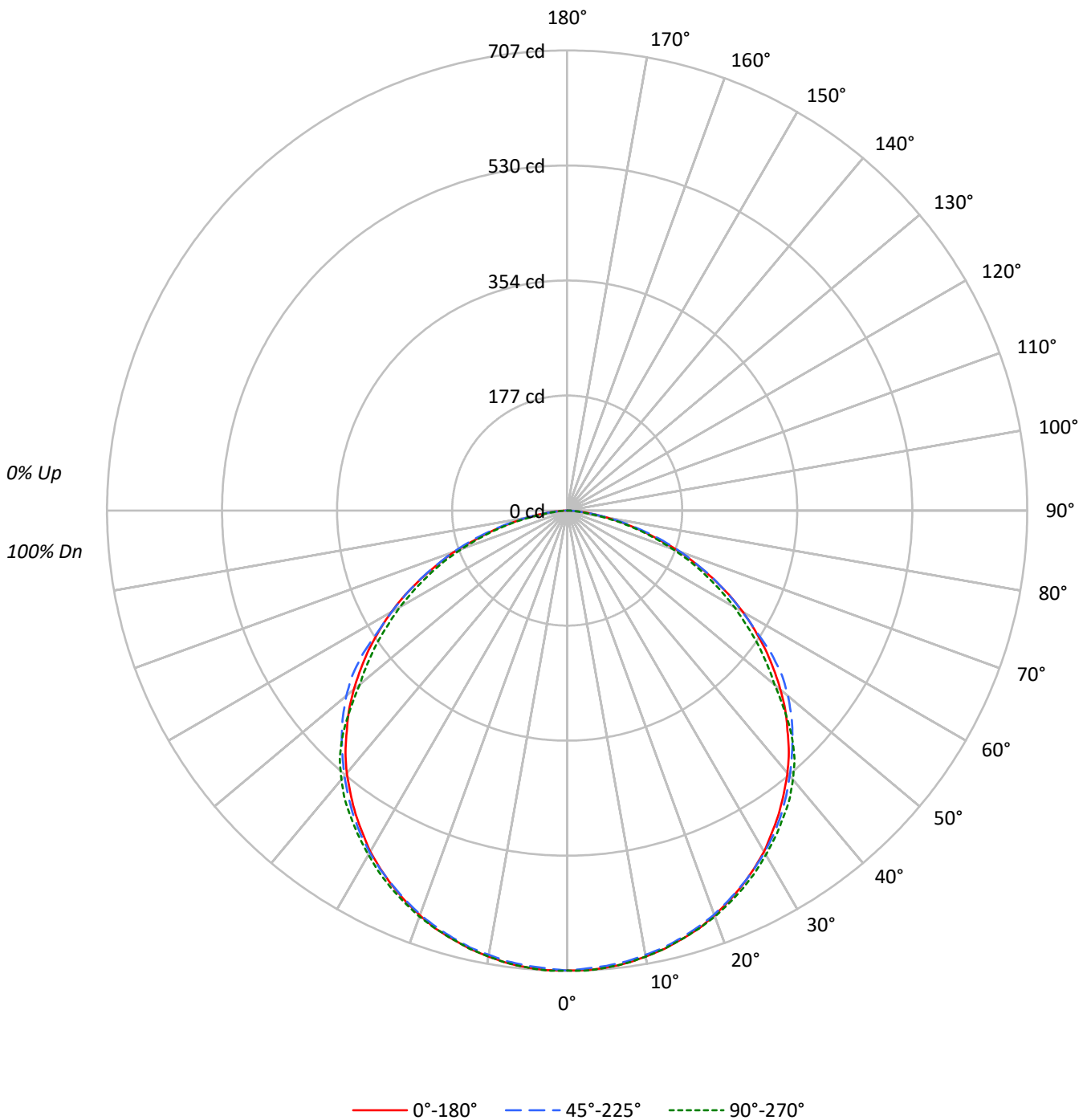
Input Watts (W): 27.714
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1902	1902	1902
5°	1904	1896	1904
10°	1901	1894	1901
15°	1899	1893	1899
20°	1895	1891	1901
25°	1888	1886	1900
30°	1880	1885	1897
35°	1865	1880	1898
40°	1850	1869	1896
45°	1823	1864	1856
50°	1791	1853	1742
55°	1744	1795	1677
60°	1678	1674	1597
65°	1573	1581	1494
70°	1444	1460	1352
75°	1213	1269	1156
80°	962	982	814
85°	633	546	463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.9	3.3
10°-20°	192.4	9.6
20°-30°	293.7	14.6
30°-40°	358.4	17.8
40°-50°	374.8	18.6
50°-60°	331.8	16.5
60°-70°	244.3	12.1
70°-80°	126.5	6.3
80°-90°	25.2	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°	553.0	27.5
0°-40°	911.4	45.3
0°-60°	1618.0	80.3
0°-90°	2014.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2014.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	707	707	707	707	707	
5°	705	705	702	705	705	67
15°	682	682	680	682	682	193
25°	636	636	635	639	640	293
35°	568	569	572	578	578	355
45°	479	483	490	494	488	370
55°	372	379	383	363	358	332
65°	247	262	248	239	235	245
75°	117	125	122	115	111	125
85°	20	22	18	16	15	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	706.7	706.7	706.7	706.7	706.7
2.5°	706.7	706.7	704.0	706.7	707.4
5°	704.7	704.7	702.0	704.7	704.7
7.5°	701.3	700.6	698.6	701.3	701.3
10°	695.8	695.8	693.1	696.5	695.8
12.5°	689.7	689.0	687.6	690.4	689.7
15°	681.5	681.5	679.5	682.2	681.5
17.5°	673.3	672.6	670.6	673.3	673.3
20°	661.7	661.0	660.4	663.1	663.8
22.5°	649.4	648.8	648.1	652.2	652.2
25°	635.8	635.8	635.1	639.2	639.9
27.5°	620.8	620.8	621.5	626.9	626.2
30°	605.1	605.1	606.5	610.6	610.6
32.5°	586.0	587.4	590.1	594.9	594.9
35°	567.6	568.9	572.4	577.8	577.8
37.5°	547.1	549.2	552.6	559.4	560.8
40°	526.6	528.0	532.1	539.6	539.6
42.5°	504.1	505.5	511.0	518.5	517.1
45°	478.9	483.0	489.8	493.9	487.8
47.5°	455.0	457.7	467.3	462.5	452.3
50°	427.7	433.2	442.7	425.7	416.1
52.5°	399.8	405.9	416.1	392.3	386.8
55°	371.8	379.3	382.7	362.9	357.5
57.5°	341.8	350.0	343.1	331.5	326.1
60°	311.8	321.3	311.1	300.2	296.8
62.5°	280.4	291.3	279.7	270.1	265.4
65°	247.0	262.0	248.3	238.8	234.7
67.5°	214.2	229.9	215.6	207.4	204.7
70°	183.5	192.4	185.6	177.4	171.9
72.5°	146.7	155.5	154.2	145.3	141.9
75°	116.7	124.8	122.1	114.6	111.2
77.5°	86.6	95.5	92.8	83.9	82.5
80°	62.1	68.2	63.4	55.3	52.5
82.5°	38.9	43.7	37.5	31.4	30.0
85°	20.5	21.8	17.7	15.7	15.0
87.5°	6.8	7.5	7.5	6.8	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)