

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: P258827

Luminaire Tested: **14CZ-LD5-25-S-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-25-S-UNV-L92765-W2A1-U-2700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1967.0 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

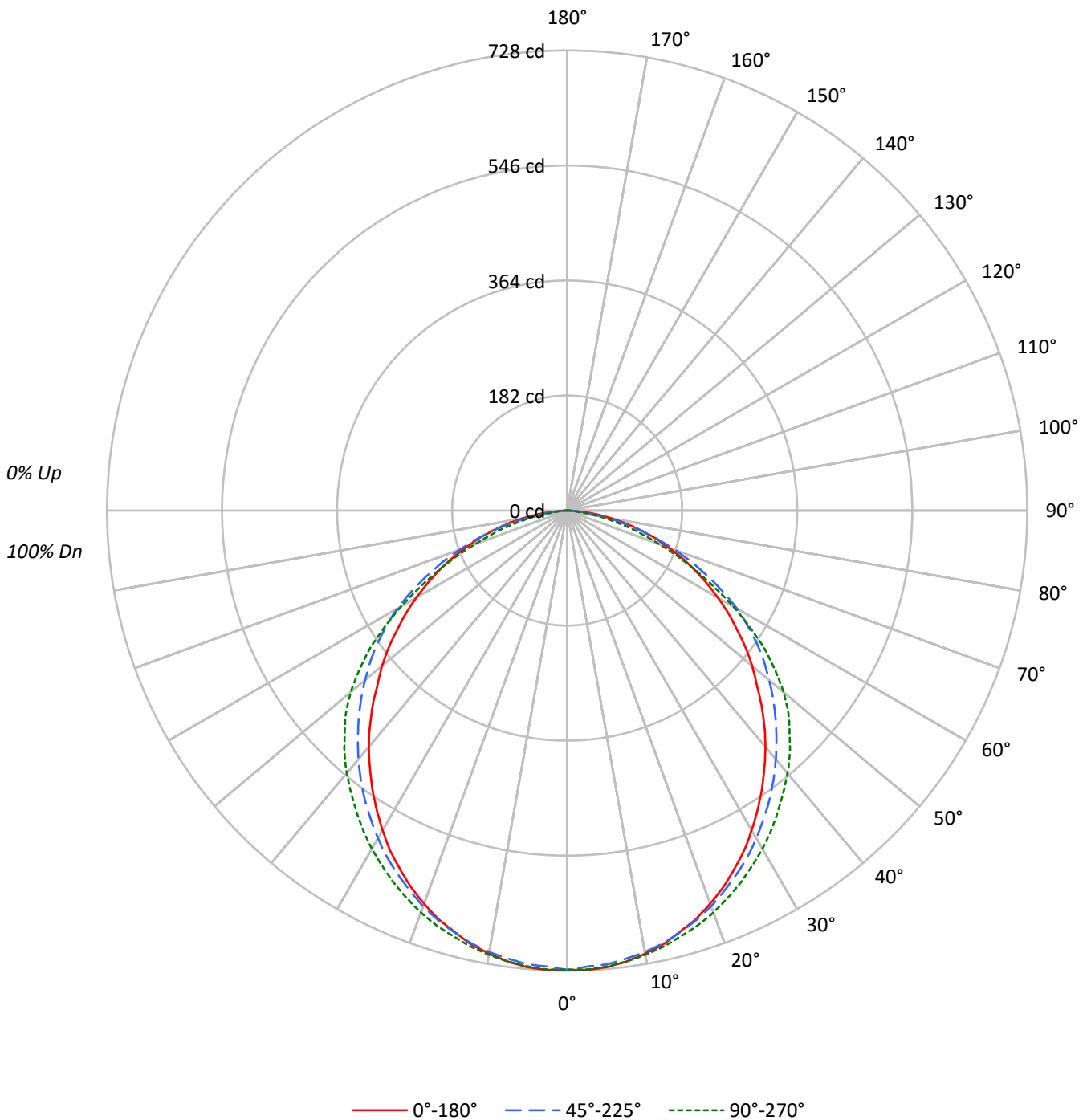
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1955	1955	1955
5°	1958	1946	1956
10°	1945	1938	1950
15°	1922	1924	1941
20°	1895	1907	1938
25°	1858	1884	1928
30°	1814	1860	1920
35°	1765	1834	1909
40°	1715	1804	1906
45°	1654	1775	1894
50°	1600	1747	1871
55°	1538	1719	1789
60°	1481	1670	1632
65°	1417	1563	1435
70°	1338	1421	1214
75°	1249	1230	1002
80°	1100	951	733
85°	865	460	404



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	3.5
10°-20°	195.6	9.9
20°-30°	293.5	14.9
30°-40°	349.9	17.8
40°-50°	360.5	18.3
50°-60°	321.2	16.3
60°-70°	231.5	11.8
70°-80°	121.0	6.2
80°-90°	25.0	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°	557.8	28.4
0°-40°	907.7	46.1
0°-60°	1589.4	80.8
0°-90°	1967.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1967.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	727	727	727	727	727	
5°	725	723	720	725	724	69
15°	690	691	691	698	697	195
25°	626	629	635	647	650	288
35°	537	544	558	577	581	336
45°	435	444	466	493	498	335
55°	328	338	366	383	381	294
65°	223	230	245	234	225	221
75°	120	126	118	102	96	127
85°	28	24	15	13	13	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	726.6	726.6	726.6	726.6	726.6
2.5°	727.5	725.7	722.2	726.6	726.6
5°	724.9	723.1	720.5	724.9	724.0
7.5°	719.6	717.8	715.2	720.5	719.6
10°	711.7	710.8	709.1	714.3	713.5
12.5°	702.9	702.1	701.2	706.5	706.5
15°	689.8	690.7	690.7	697.7	696.8
17.5°	677.5	678.4	679.3	688.0	688.0
20°	661.8	662.6	666.1	675.8	676.7
22.5°	645.1	646.0	650.4	661.8	663.5
25°	625.8	629.3	634.6	646.8	649.5
27.5°	606.5	609.2	617.9	631.9	633.7
30°	583.7	589.0	598.6	614.4	617.9
32.5°	561.0	567.1	578.5	596.0	600.4
35°	537.3	544.3	558.3	576.7	581.1
37.5°	512.7	518.9	536.4	555.7	561.8
40°	488.2	494.3	513.6	535.5	542.5
42.5°	461.9	470.7	490.0	514.5	521.5
45°	434.7	444.4	466.3	492.6	497.8
47.5°	406.7	417.2	442.6	468.9	475.1
50°	382.1	391.8	417.2	442.6	447.0
52.5°	355.9	364.6	392.7	413.7	414.6
55°	327.8	338.3	366.4	383.0	381.3
57.5°	302.4	311.2	338.3	347.1	341.8
60°	275.2	283.1	310.3	311.2	303.3
62.5°	248.9	256.8	277.8	271.7	262.1
65°	222.6	230.5	245.4	234.0	225.3
67.5°	197.2	204.2	213.0	198.1	189.3
70°	170.0	179.7	180.6	163.0	154.3
72.5°	146.4	151.6	149.9	133.2	125.3
75°	120.1	126.2	118.3	102.5	96.4
77.5°	95.5	99.9	89.4	74.5	70.1
80°	71.0	73.6	61.4	50.0	47.3
82.5°	48.2	48.2	35.1	27.2	24.5
85°	28.0	24.5	14.9	13.1	13.1
87.5°	9.6	6.1	6.1	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)