

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: P258660

Luminaire Tested: **14CZ-LD5-25-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-25-UNV-L92765-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2005.0 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

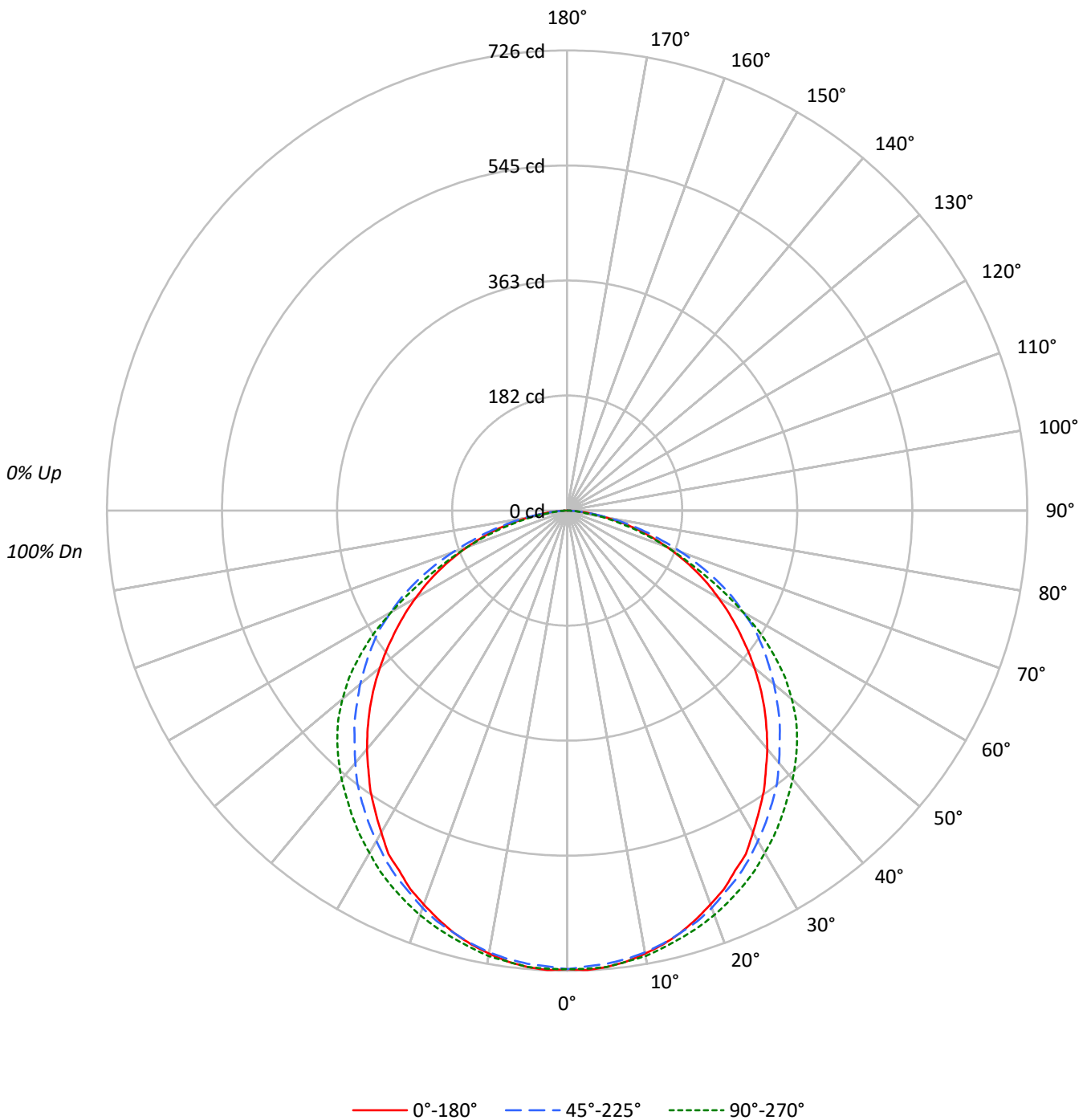
Input Watts (W): 18.042
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1947	1947	1947
5°	1952	1938	1952
10°	1939	1934	1950
15°	1922	1922	1944
20°	1894	1911	1945
25°	1861	1893	1943
30°	1821	1871	1938
35°	1776	1851	1939
40°	1726	1826	1944
45°	1674	1806	1952
50°	1614	1783	1937
55°	1549	1767	1873
60°	1484	1729	1724
65°	1416	1656	1510
70°	1314	1509	1307
75°	1193	1315	1079
80°	950	1041	797
85°	670	580	457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	3.4
10°-20°	195.6	9.8
20°-30°	294.9	14.7
30°-40°	353.5	17.6
40°-50°	366.8	18.3
50°-60°	330.8	16.5
60°-70°	241.3	12.0
70°-80°	126.6	6.3
80°-90°	27.0	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°	558.9	27.9
0°-40°	912.4	45.5
0°-60°	1610.0	80.3
0°-90°	2005.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2005.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	724	724	724	724	724	
5°	723	721	718	723	723	69
15°	690	690	690	698	698	194
25°	627	630	638	651	654	289
35°	541	547	563	584	590	338
45°	440	449	474	503	513	339
55°	330	342	377	401	399	296
65°	222	235	260	250	237	220
75°	115	130	126	110	104	120
85°	22	27	19	16	15	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	723.5	723.5	723.5	723.5	723.5
2.5°	725.5	723.5	719.6	723.5	723.5
5°	722.6	720.6	717.6	722.6	722.6
7.5°	717.6	715.6	713.7	718.6	717.6
10°	709.7	708.7	707.7	713.7	713.7
12.5°	700.8	700.8	699.8	706.7	705.8
15°	689.9	689.9	689.9	697.8	697.8
17.5°	676.1	678.1	680.1	689.0	689.0
20°	661.3	663.3	667.2	678.1	679.1
22.5°	646.4	647.4	651.4	664.2	667.2
25°	626.7	629.6	637.6	651.4	654.4
27.5°	610.9	611.9	620.7	636.6	640.5
30°	586.2	593.1	602.0	619.8	623.7
32.5°	563.4	569.3	583.2	602.0	607.9
35°	540.7	546.6	563.4	584.2	590.1
37.5°	515.0	523.9	543.6	564.4	571.3
40°	491.3	499.2	519.9	545.6	553.5
42.5°	465.6	473.5	496.2	524.9	533.8
45°	439.9	448.8	474.5	503.1	513.0
47.5°	413.2	423.1	449.7	481.4	490.3
50°	385.5	396.4	426.0	458.6	462.6
52.5°	357.8	369.7	401.3	430.0	433.9
55°	330.1	342.0	376.6	401.3	399.3
57.5°	303.5	316.3	351.9	364.7	362.8
60°	275.8	289.6	321.2	327.2	320.3
62.5°	250.1	262.9	292.6	287.6	278.7
65°	222.4	235.3	260.0	250.1	237.2
67.5°	194.7	210.5	226.4	209.6	199.7
70°	167.0	184.8	191.8	175.0	166.1
72.5°	140.4	159.1	157.2	140.4	134.4
75°	114.7	130.5	126.5	109.7	103.8
77.5°	87.0	104.8	95.9	82.0	77.1
80°	61.3	77.1	67.2	55.4	51.4
82.5°	40.5	51.4	41.5	32.6	29.7
85°	21.7	26.7	18.8	15.8	14.8
87.5°	8.9	7.9	6.9	6.9	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)