

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: P258831

Luminaire Tested: **14CZ-LD5-25-S-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258831
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-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2274.0 lumens
Efficiency: N/A
Efficacy: 122.3 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

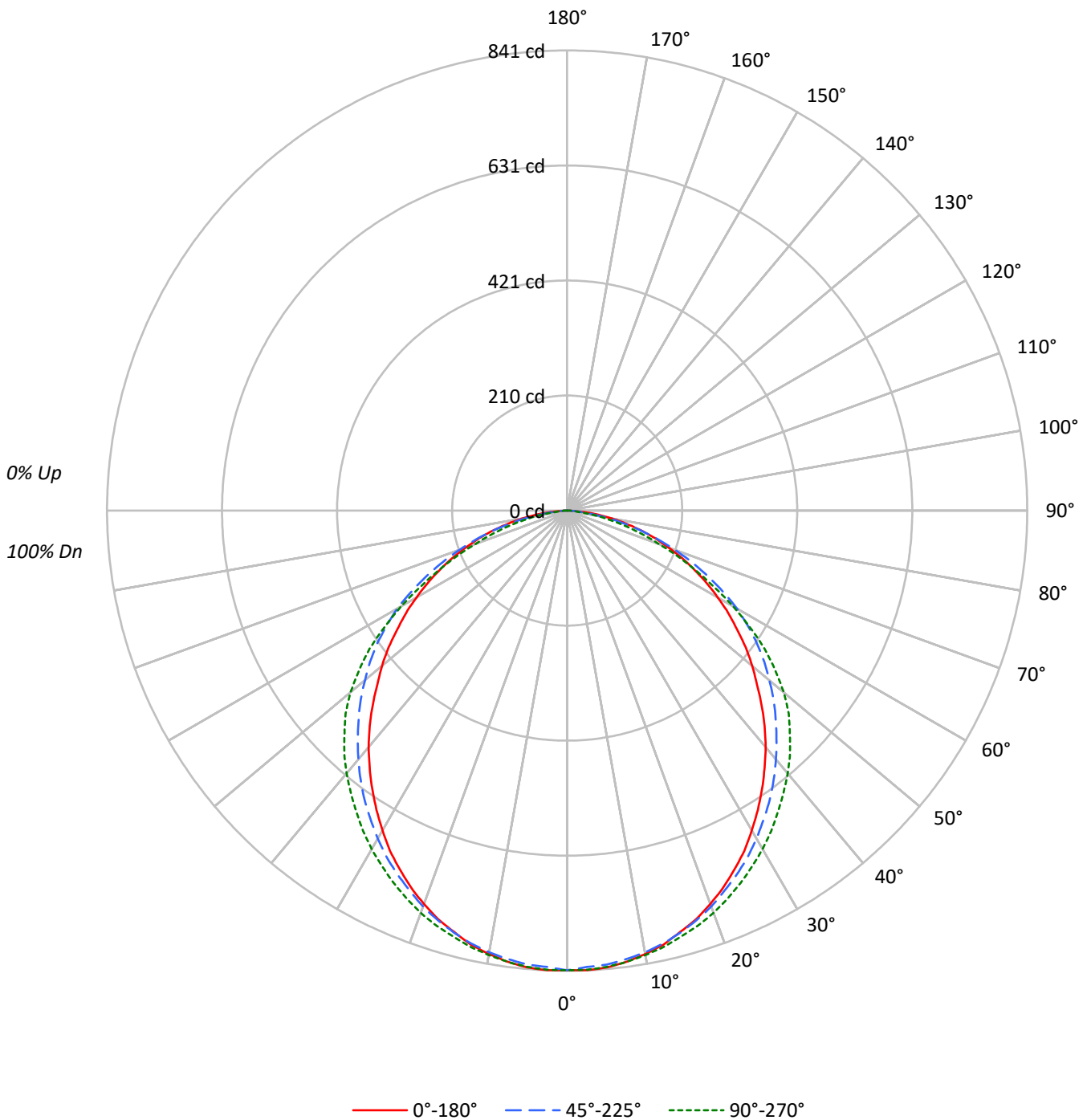
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2260	2260	2260
5°	2264	2250	2261
10°	2248	2240	2254
15°	2222	2225	2244
20°	2191	2205	2240
25°	2148	2178	2229
30°	2097	2151	2220
35°	2040	2121	2207
40°	1983	2086	2203
45°	1913	2052	2190
50°	1850	2019	2164
55°	1778	1987	2068
60°	1713	1931	1887
65°	1639	1806	1658
70°	1547	1642	1403
75°	1443	1422	1159
80°	1272	1099	848
85°	1000	531	469



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.4	3.5
10°-20°	226.1	9.9
20°-30°	339.3	14.9
30°-40°	404.6	17.8
40°-50°	416.7	18.3
50°-60°	371.4	16.3
60°-70°	267.6	11.8
70°-80°	139.9	6.2
80°-90°	28.9	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°	644.8	28.4
0°-40°	1049.4	46.1
0°-60°	1837.5	80.8
0°-90°	2274.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2274.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	840	840	840	840	840	
5°	838	836	833	838	837	79
15°	798	798	798	807	806	225
25°	724	728	734	748	751	333
35°	621	629	646	667	672	388
45°	503	514	539	570	576	388
55°	379	391	424	443	441	340
65°	257	266	284	270	260	255
75°	139	146	137	119	112	147
85°	32	28	17	15	15	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	840.0	840.0	840.0	840.0	840.0
2.5°	841.0	839.0	834.9	840.0	840.0
5°	838.0	836.0	832.9	838.0	837.0
7.5°	831.9	829.9	826.8	832.9	831.9
10°	822.8	821.8	819.8	825.8	824.8
12.5°	812.7	811.6	810.6	816.7	816.7
15°	797.5	798.5	798.5	806.6	805.6
17.5°	783.3	784.3	785.3	795.4	795.4
20°	765.0	766.0	770.1	781.2	782.3
22.5°	745.8	746.8	751.9	765.0	767.1
25°	723.5	727.5	733.6	747.8	750.8
27.5°	701.2	704.2	714.4	730.6	732.6
30°	674.9	680.9	692.1	710.3	714.4
32.5°	648.5	655.6	668.8	689.0	694.1
35°	621.1	629.3	645.5	666.7	671.8
37.5°	592.8	599.9	620.1	642.4	649.5
40°	564.4	571.5	593.8	619.1	627.2
42.5°	534.0	544.1	566.4	594.8	602.9
45°	502.6	513.7	539.1	569.5	575.5
47.5°	470.2	482.3	511.7	542.1	549.2
50°	441.8	452.9	482.3	511.7	516.8
52.5°	411.4	421.5	454.0	478.3	479.3
55°	379.0	391.1	423.6	442.8	440.8
57.5°	349.6	359.7	391.1	401.3	395.2
60°	318.2	327.3	358.7	359.7	350.6
62.5°	287.8	296.9	321.2	314.1	303.0
65°	257.4	266.5	283.7	270.5	260.4
67.5°	228.0	236.1	246.2	229.0	218.9
70°	196.6	207.7	208.7	188.5	178.3
72.5°	169.2	175.3	173.3	154.0	144.9
75°	138.8	145.9	136.8	118.6	111.5
77.5°	110.4	115.5	103.4	86.1	81.1
80°	82.1	85.1	70.9	57.8	54.7
82.5°	55.7	55.7	40.5	31.4	28.4
85°	32.4	28.4	17.2	15.2	15.2
87.5°	11.1	7.1	7.1	7.1	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)