

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: P258608

Luminaire Tested: **14CZ-LD5-25-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258608
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-L82765-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2456.0 lumens
Efficiency: N/A
Efficacy: 133.4 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

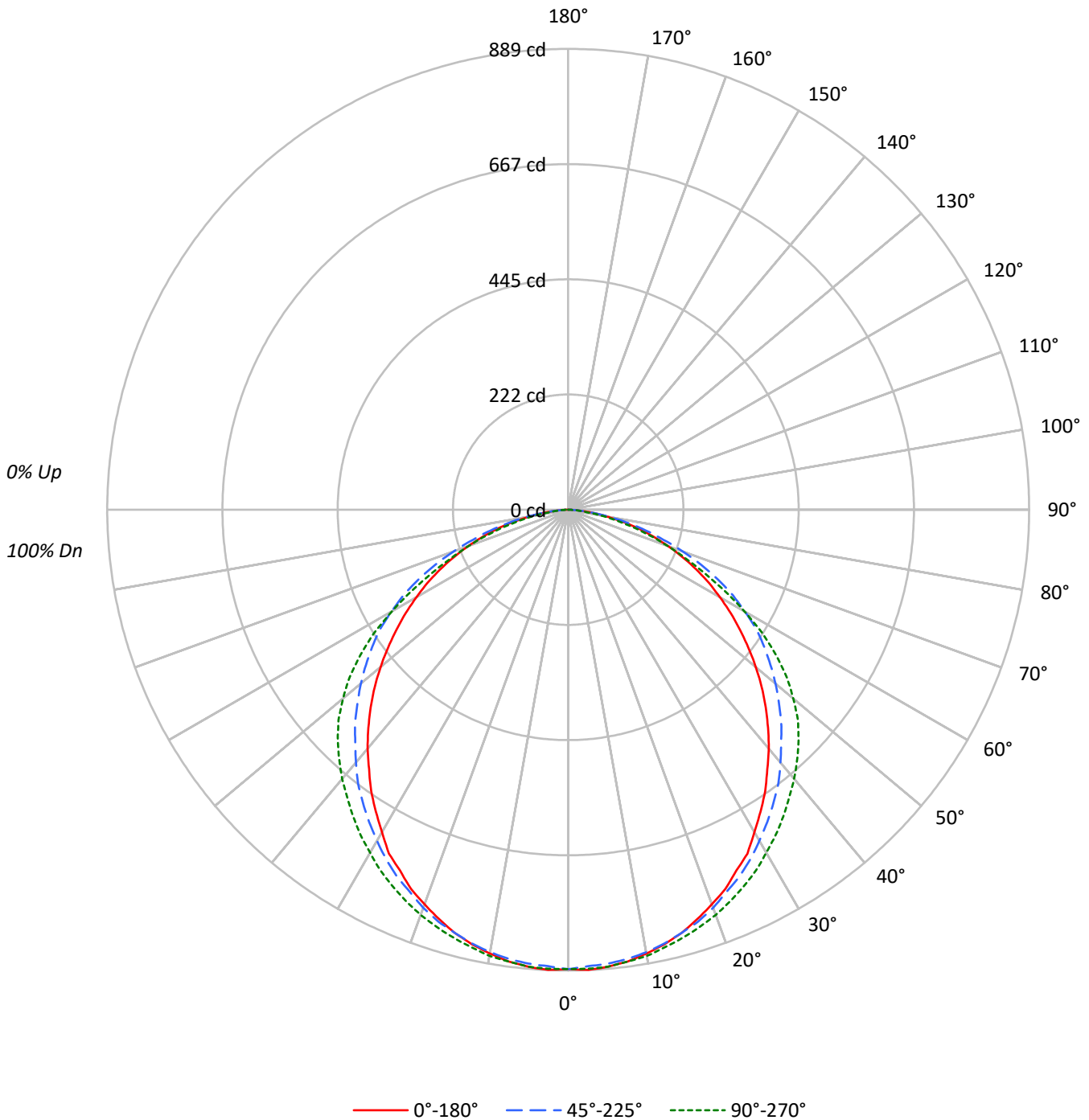
Input Watts (W): 18.414
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2385	2385	2385
5°	2391	2374	2391
10°	2375	2369	2389
15°	2354	2354	2381
20°	2320	2340	2382
25°	2279	2319	2380
30°	2231	2291	2374
35°	2176	2267	2374
40°	2114	2237	2382
45°	2050	2212	2391
50°	1977	2185	2372
55°	1897	2164	2295
60°	1818	2118	2111
65°	1734	2027	1850
70°	1610	1848	1600
75°	1461	1612	1321
80°	1164	1275	976
85°	821	710	562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	3.4
10°-20°	239.6	9.8
20°-30°	361.2	14.7
30°-40°	433.0	17.6
40°-50°	449.3	18.3
50°-60°	405.3	16.5
60°-70°	295.6	12.0
70°-80°	155.1	6.3
80°-90°	33.1	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°	684.6	27.9
0°-40°	1117.6	45.5
0°-60°	1972.2	80.3
0°-90°	2456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2456.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	886	886	886	886	886	
5°	885	883	879	885	885	84
15°	845	845	845	855	855	238
25°	768	771	781	798	802	354
35°	662	670	690	716	723	414
45°	539	550	581	616	628	415
55°	404	419	461	492	489	362
65°	272	288	318	306	291	269
75°	140	160	155	134	127	147
85°	27	33	23	19	18	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	886.3	886.3	886.3	886.3	886.3
2.5°	888.7	886.3	881.5	886.3	886.3
5°	885.1	882.7	879.0	885.1	885.1
7.5°	879.0	876.6	874.2	880.2	879.0
10°	869.3	868.1	866.9	874.2	874.2
12.5°	858.5	858.5	857.2	865.7	864.5
15°	845.1	845.1	845.1	854.8	854.8
17.5°	828.2	830.6	833.0	843.9	843.9
20°	810.0	812.4	817.3	830.6	831.8
22.5°	791.9	793.1	797.9	813.7	817.3
25°	767.6	771.3	781.0	797.9	801.5
27.5°	748.3	749.5	760.4	779.8	784.6
30°	718.0	726.5	737.4	759.2	764.0
32.5°	690.2	697.4	714.4	737.4	744.6
35°	662.3	669.6	690.2	715.6	722.8
37.5°	630.8	641.7	665.9	691.4	699.8
40°	601.8	611.5	636.9	668.4	678.0
42.5°	570.3	580.0	607.8	642.9	653.8
45°	538.8	549.7	581.2	616.3	628.4
47.5°	506.1	518.2	550.9	589.7	600.6
50°	472.2	485.5	521.9	561.8	566.7
52.5°	438.3	452.8	491.6	526.7	531.5
55°	404.4	418.9	461.3	491.6	489.2
57.5°	371.7	387.5	431.0	446.8	444.4
60°	337.8	354.8	393.5	400.8	392.3
62.5°	306.3	322.1	358.4	352.3	341.4
65°	272.4	288.2	318.4	306.3	290.6
67.5°	238.5	257.9	277.3	256.7	244.6
70°	204.6	226.4	234.9	214.3	203.4
72.5°	171.9	194.9	192.5	171.9	164.7
75°	140.5	159.8	155.0	134.4	127.1
77.5°	106.5	128.3	117.4	100.5	94.4
80°	75.1	94.4	82.3	67.8	63.0
82.5°	49.6	63.0	50.9	40.0	36.3
85°	26.6	32.7	23.0	19.4	18.2
87.5°	10.9	9.7	8.5	8.5	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)