

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: P259151

Luminaire Tested: **14CZ-LD5-44-SQP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259151
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-LD5-44-SQP-UNV-L82765-W2A1-U-5500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2926.0 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

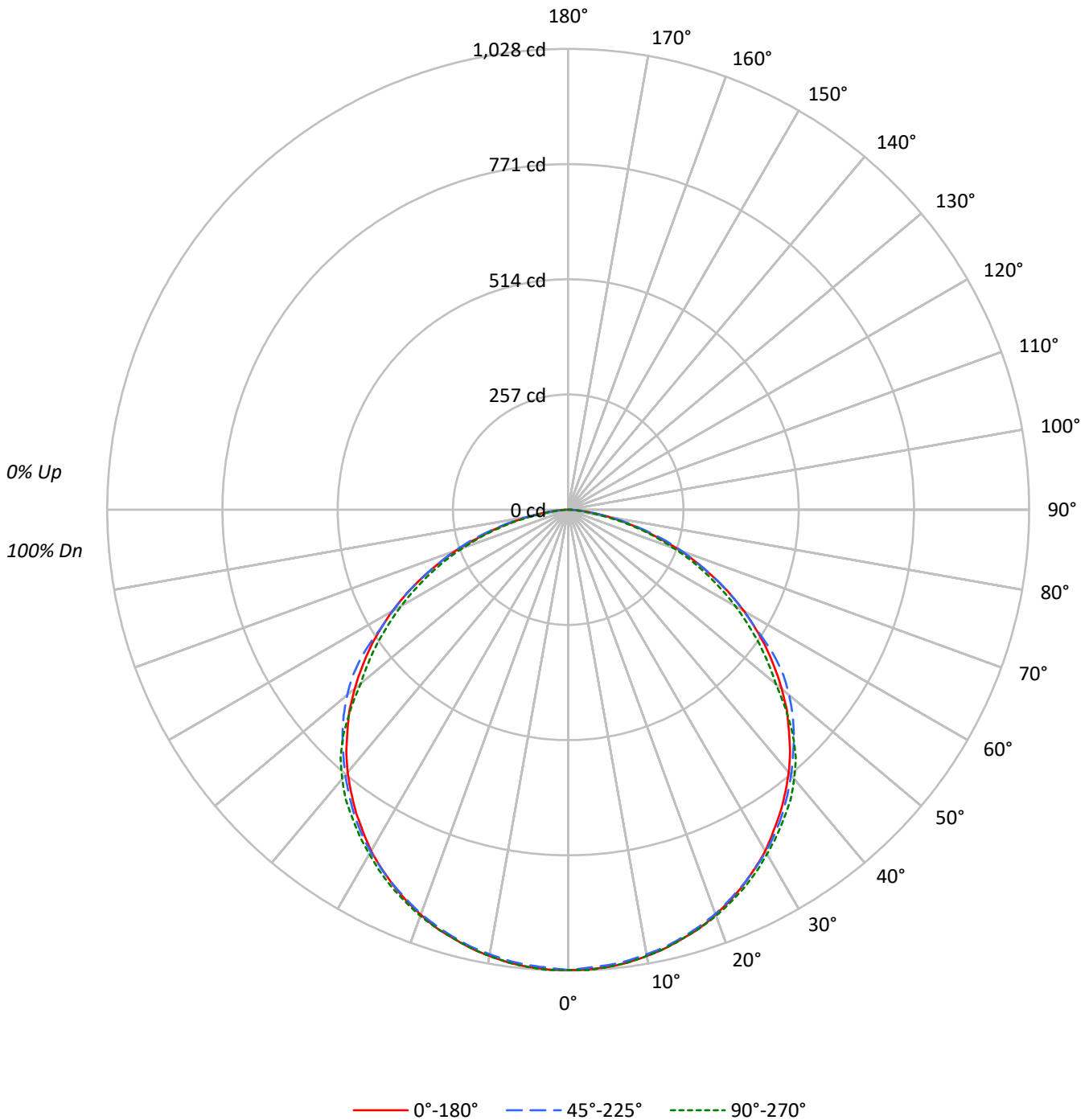
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2763	2763	2763
5°	2766	2755	2766
10°	2762	2752	2762
15°	2758	2750	2758
20°	2753	2747	2761
25°	2743	2740	2760
30°	2732	2738	2756
35°	2709	2732	2758
40°	2688	2716	2754
45°	2648	2708	2697
50°	2601	2693	2531
55°	2534	2609	2436
60°	2437	2432	2320
65°	2285	2297	2171
70°	2098	2121	1965
75°	1762	1844	1680
80°	1398	1429	1182
85°	917	797	673



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.2	3.3
10°-20°	279.5	9.6
20°-30°	426.8	14.6
30°-40°	520.7	17.8
40°-50°	544.5	18.6
50°-60°	482.0	16.5
60°-70°	355.0	12.1
70°-80°	183.8	6.3
80°-90°	36.6	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°	803.5	27.5
0°-40°	1324.1	45.3
0°-60°	2350.6	80.3
0°-90°	2926.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2926.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1027	1027	1027	1027	1027	
5°	1024	1024	1020	1024	1024	97
15°	990	990	987	991	990	280
25°	924	924	923	929	930	426
35°	825	827	832	840	840	516
45°	696	702	712	718	709	537
55°	540	551	556	527	519	482
65°	359	381	361	347	341	355
75°	170	181	177	166	162	181
85°	30	32	26	23	22	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1026.8	1026.8	1026.8	1026.8	1026.8
2.5°	1026.8	1026.8	1022.8	1026.8	1027.8
5°	1023.8	1023.8	1019.8	1023.8	1023.8
7.5°	1018.9	1017.9	1014.9	1018.9	1018.9
10°	1010.9	1010.9	1007.0	1011.9	1010.9
12.5°	1002.0	1001.0	999.0	1003.0	1002.0
15°	990.1	990.1	987.1	991.1	990.1
17.5°	978.2	977.2	974.3	978.2	978.2
20°	961.4	960.4	959.4	963.4	964.3
22.5°	943.5	942.5	941.5	947.5	947.5
25°	923.7	923.7	922.7	928.7	929.7
27.5°	901.9	901.9	902.9	910.8	909.8
30°	879.1	879.1	881.1	887.0	887.0
32.5°	851.4	853.3	857.3	864.2	864.2
35°	824.6	826.6	831.5	839.5	839.5
37.5°	794.9	797.8	802.8	812.7	814.7
40°	765.1	767.1	773.1	784.0	784.0
42.5°	732.4	734.4	742.3	753.2	751.3
45°	695.8	701.7	711.6	717.6	708.6
47.5°	661.1	665.0	678.9	672.0	657.1
50°	621.4	629.4	643.2	618.4	604.6
52.5°	580.8	589.7	604.6	569.9	562.0
55°	540.2	551.1	556.0	527.3	519.3
57.5°	496.5	508.4	498.5	481.7	473.7
60°	452.9	466.8	451.9	436.1	431.1
62.5°	407.3	423.2	406.4	392.5	385.5
65°	358.8	380.6	360.8	346.9	340.9
67.5°	311.2	334.0	313.2	301.3	297.3
70°	266.6	279.5	269.6	257.7	249.8
72.5°	213.1	226.0	224.0	211.1	206.1
75°	169.5	181.4	177.4	166.5	161.6
77.5°	125.9	138.8	134.8	121.9	119.9
80°	90.2	99.1	92.2	80.3	76.3
82.5°	56.5	63.4	54.5	45.6	43.6
85°	29.7	31.7	25.8	22.8	21.8
87.5°	9.9	10.9	10.9	9.9	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)