

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: P275631

Luminaire Tested: **14CZ2-25-S-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275631
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-25-S-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2549.0 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

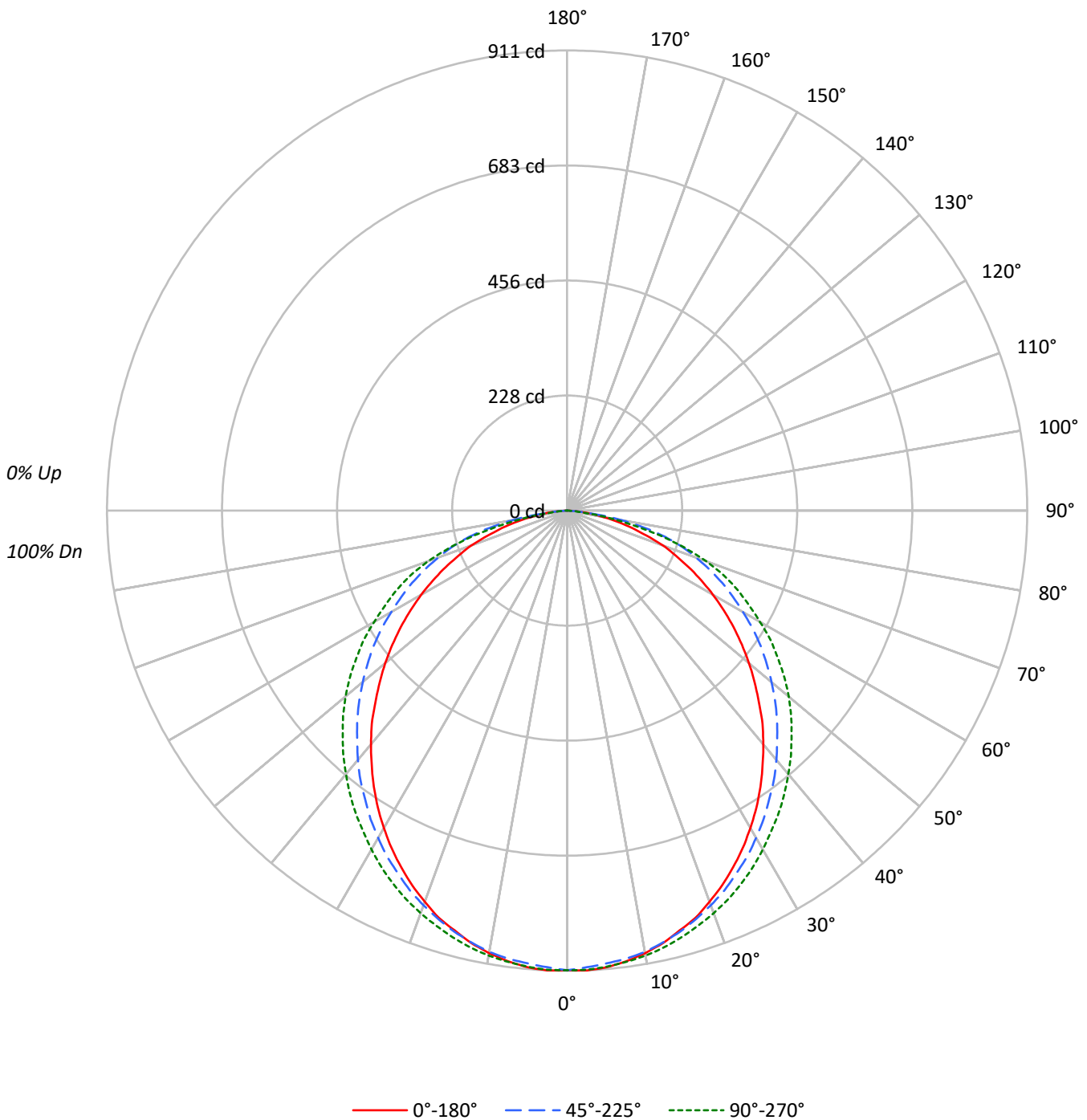
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2449	2449	2449
5°	2451	2431	2448
10°	2431	2424	2445
15°	2398	2405	2437
20°	2360	2381	2428
25°	2311	2353	2420
30°	2254	2325	2407
35°	2192	2292	2400
40°	2122	2264	2393
45°	2044	2237	2390
50°	1968	2212	2397
55°	1886	2194	2389
60°	1795	2163	2374
65°	1690	2157	2374
70°	1591	2138	2307
75°	1380	2089	1971
80°	1116	1684	1313
85°	741	587	389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	3.4
10°-20°	244.5	9.6
20°-30°	366.8	14.4
30°-40°	437.5	17.2
40°-50°	452.3	17.7
50°-60°	413.0	16.2
60°-70°	325.0	12.7
70°-80°	189.2	7.4
80°-90°	34.9	1.4
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°	697.2	27.4
0°-40°	1134.7	44.5
0°-60°	2000.0	78.5
0°-90°	2549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2549.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	910	910	910	910	910	
5°	907	905	900	907	906	86
15°	861	862	863	875	875	243
25°	778	782	792	811	815	358
35°	667	676	698	724	730	417
45°	537	555	588	620	628	415
55°	402	423	468	502	509	359
65°	265	293	339	365	373	264
75°	133	164	201	197	190	141
85°	24	34	19	15	13	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	910.0	910.0	910.0	910.0	910.0
2.5°	911.2	908.7	904.9	911.2	910.0
5°	907.4	904.9	899.8	907.4	906.2
7.5°	899.8	897.3	894.8	902.4	901.1
10°	889.7	888.5	887.2	896.0	894.8
12.5°	877.1	877.1	875.8	885.9	885.9
15°	860.7	861.9	863.2	874.6	874.6
17.5°	845.5	844.2	848.0	860.7	861.9
20°	824.0	826.5	831.6	846.8	848.0
22.5°	802.5	805.1	813.9	829.1	832.9
25°	778.5	782.3	792.4	811.4	815.2
27.5°	753.2	758.3	772.2	792.4	796.2
30°	725.4	733.0	748.2	770.9	774.7
32.5°	697.6	705.2	724.2	746.9	752.0
35°	667.3	676.1	697.6	724.2	730.5
37.5°	635.7	647.1	672.4	698.9	706.5
40°	604.1	616.7	644.5	672.4	681.2
42.5°	572.5	585.1	615.5	647.1	655.9
45°	537.1	554.8	587.7	620.5	628.1
47.5°	503.0	522.0	558.6	591.5	601.6
50°	470.1	489.1	528.3	562.4	572.5
52.5°	436.0	456.2	497.9	533.3	542.2
55°	401.9	423.4	467.6	501.7	509.3
57.5°	367.8	390.5	436.0	468.9	477.7
60°	333.6	357.7	401.9	434.8	441.1
62.5°	299.5	324.8	370.3	399.4	405.7
65°	265.4	293.2	338.7	365.2	372.8
67.5°	232.5	260.3	304.6	329.9	336.2
70°	202.2	227.5	271.7	290.7	293.2
72.5°	164.3	195.9	238.9	249.0	242.7
75°	132.7	164.3	200.9	197.2	189.6
77.5°	101.1	132.7	156.7	144.1	134.0
80°	72.0	103.6	108.7	89.7	84.7
82.5°	46.8	72.0	60.7	46.8	37.9
85°	24.0	34.1	19.0	15.2	12.6
87.5°	7.6	5.1	2.5	2.5	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)