

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: P260332

Luminaire Tested: **22CZ-LD5-20-SQP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-20-SQP-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1157.0 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

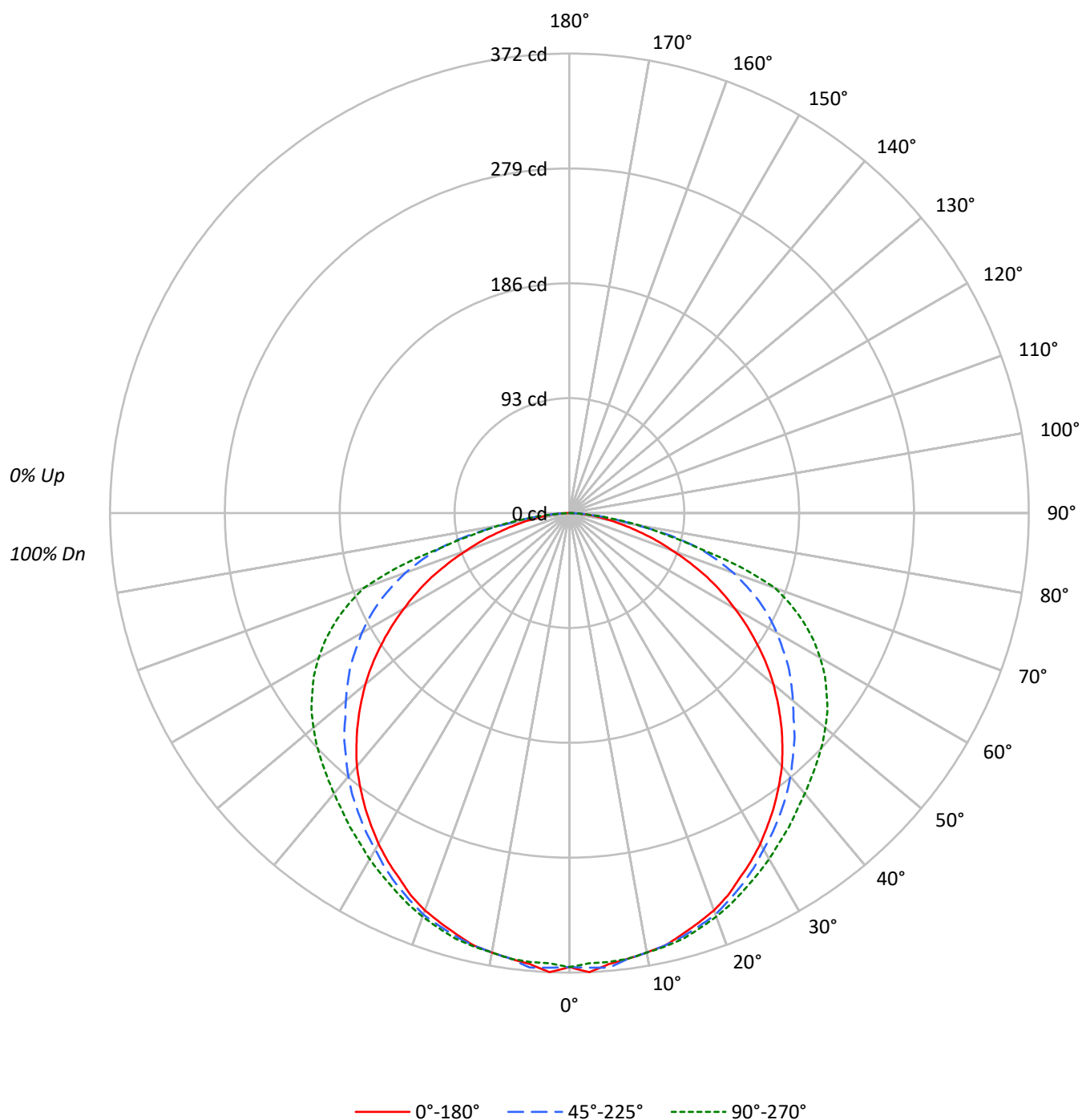
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	989	989	989
5°	990	998	985
10°	987	987	987
15°	984	989	994
20°	980	991	996
25°	969	985	998
30°	960	977	1005
35°	950	977	1018
40°	941	978	1042
45°	923	981	1080
50°	903	989	1132
55°	873	1016	1193
60°	832	1045	1262
65°	784	1081	1333
70°	700	1110	1393
75°	607	1111	1102
80°	514	821	891
85°	445	556	500



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.9	3.0
10°-20°	100.2	8.7
20°-30°	152.7	13.2
30°-40°	186.8	16.1
40°-50°	201.0	17.4
50°-60°	194.7	16.8
60°-70°	165.0	14.3
70°-80°	99.7	8.6
80°-90°	21.9	1.9
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°	287.8	24.9
0°-40°	474.6	41.0
0°-60°	870.4	75.2
0°-90°	1157.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1157.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	368	368	368	368	368	
5°	367	367	369	368	365	35
15°	353	354	355	356	357	100
25°	326	328	332	334	336	151
35°	289	291	297	306	310	181
45°	243	247	258	274	284	187
55°	186	194	216	242	254	166
65°	123	137	170	197	209	121
75°	58	79	107	109	106	63
85°	14	17	18	17	16	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	367.5	367.5	367.5	367.5	367.5
2.5°	372.0	371.1	368.4	366.6	364.8
5°	366.6	366.6	369.3	367.5	364.8
7.5°	363.9	363.9	363.9	368.4	363.9
10°	361.2	362.1	361.2	364.8	361.2
12.5°	358.5	358.5	358.5	359.4	359.4
15°	353.1	354.0	354.9	355.8	356.7
17.5°	347.7	348.6	350.4	351.3	352.2
20°	342.3	343.2	345.9	345.9	347.7
22.5°	335.1	335.1	338.7	339.6	342.3
25°	326.2	328.0	331.6	334.2	336.0
27.5°	318.1	319.9	323.5	327.1	329.8
30°	309.1	310.9	314.5	319.9	323.5
32.5°	299.2	301.0	306.4	312.7	316.3
35°	289.3	291.1	297.4	305.5	310.0
37.5°	278.5	281.2	288.4	297.4	302.8
40°	267.8	270.5	278.5	288.4	296.5
42.5°	255.2	258.8	267.8	281.2	290.2
45°	242.6	247.1	257.9	274.0	283.9
47.5°	229.1	233.6	246.2	266.9	277.6
50°	215.6	221.0	236.3	258.8	270.5
52.5°	201.3	206.7	226.4	250.7	263.3
55°	186.0	194.1	216.5	241.7	254.3
57.5°	170.7	179.7	204.9	231.8	245.3
60°	154.5	165.3	194.1	221.0	234.5
62.5°	139.3	151.0	182.4	209.4	222.8
65°	123.1	136.6	169.8	196.8	209.4
67.5°	106.0	123.1	155.4	181.5	194.1
70°	89.0	108.7	141.1	165.3	177.0
72.5°	73.7	94.3	124.9	145.6	145.6
75°	58.4	79.1	106.9	108.7	106.0
77.5°	44.9	64.7	83.6	76.4	78.2
80°	33.2	49.4	53.0	55.7	57.5
82.5°	22.5	33.2	34.1	35.9	35.9
85°	14.4	17.1	18.0	17.1	16.2
87.5°	6.3	7.2	5.4	3.6	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)