

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: P259449

Luminaire Tested: **22CZ-LD5-24-S-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-24-S-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2526.0 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

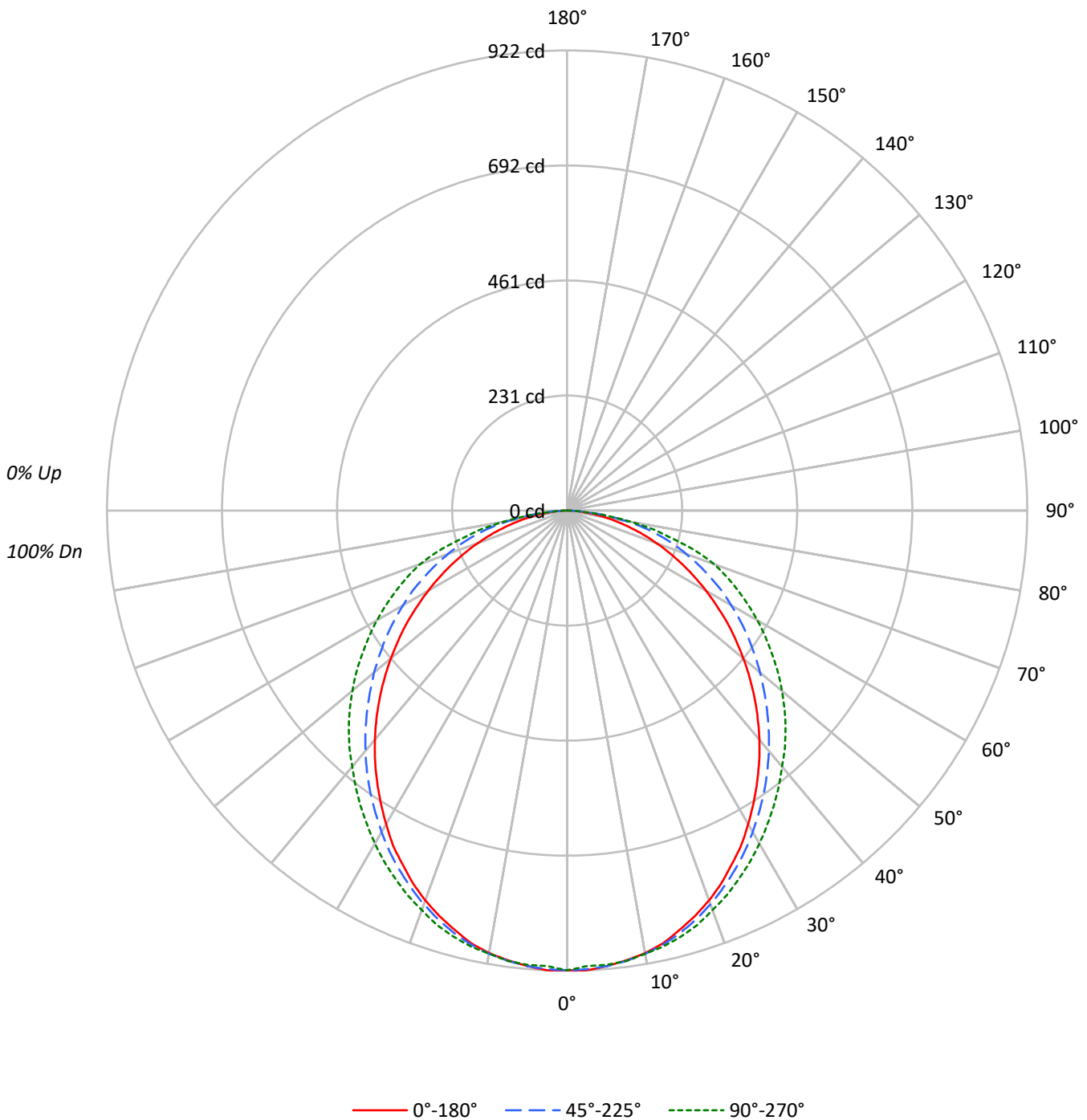
Input Watts (W): 17.949
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	70	61	54	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	56	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	36	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	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2478	2478	2478
5°	2474	2474	2468
10°	2460	2463	2463
15°	2423	2440	2461
20°	2380	2404	2439
25°	2320	2360	2417
30°	2254	2311	2394
35°	2180	2260	2371
40°	2106	2208	2353
45°	2022	2156	2355
50°	1930	2113	2352
55°	1839	2077	2351
60°	1730	2044	2370
65°	1622	2017	2402
70°	1499	1995	2463
75°	1350	1981	2283
80°	1184	1843	1993
85°	973	1386	1235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	3.4
10°-20°	247.0	9.8
20°-30°	366.9	14.5
30°-40°	431.9	17.1
40°-50°	440.3	17.4
50°-60°	397.1	15.7
60°-70°	312.8	12.4
70°-80°	192.9	7.6
80°-90°	50.1	2.0
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°	700.9	27.7
0°-40°	1132.8	44.8
0°-60°	1970.2	78.0
0°-90°	2526.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2526.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	921	921	921	921	921	
5°	916	917	916	915	914	87
15°	870	874	876	881	883	245
25°	781	786	795	808	814	360
35°	664	671	688	710	722	415
45°	531	540	567	601	619	410
55°	392	405	443	483	501	350
65°	255	273	317	357	377	252
75°	130	152	190	212	220	138
85°	32	40	45	42	40	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	920.9	920.9	920.9	920.9	920.9
2.5°	922.1	922.1	919.7	917.2	913.6
5°	916.0	917.2	916.0	914.8	913.6
7.5°	908.7	910.0	910.0	910.0	910.0
10°	900.3	901.5	901.5	901.5	901.5
12.5°	888.1	889.3	890.5	891.8	894.2
15°	869.9	873.6	876.0	880.8	883.3
17.5°	851.7	855.4	859.0	865.1	869.9
20°	831.1	833.5	839.6	846.9	851.7
22.5°	808.0	811.7	817.7	827.5	834.7
25°	781.3	786.2	794.7	808.0	814.1
27.5°	755.9	759.5	770.4	785.0	793.5
30°	725.5	730.4	743.7	761.9	770.4
32.5°	695.2	701.3	715.8	736.5	746.2
35°	663.7	670.9	687.9	709.8	721.9
37.5°	632.1	639.4	658.8	683.1	696.4
40°	599.4	606.6	628.5	655.2	669.7
42.5°	565.4	573.9	598.1	628.5	645.5
45°	531.4	539.9	566.6	600.6	618.8
47.5°	496.2	505.9	535.1	572.7	590.9
50°	461.0	472.0	504.7	543.5	561.7
52.5°	425.9	438.0	473.2	513.2	532.6
55°	391.9	405.2	442.8	482.9	501.1
57.5°	355.5	371.3	411.3	450.1	470.8
60°	321.5	338.5	379.8	418.6	440.4
62.5°	287.5	305.7	349.4	388.2	408.9
65°	254.8	273.0	316.7	356.7	377.3
67.5°	222.0	242.7	285.1	325.2	345.8
70°	190.5	212.3	253.6	292.4	313.0
72.5°	160.2	182.0	223.2	259.6	271.8
75°	129.8	151.7	190.5	212.3	219.6
77.5°	101.9	122.5	156.5	169.9	179.6
80°	76.4	94.6	118.9	127.4	128.6
82.5°	52.2	67.9	82.5	83.7	82.5
85°	31.5	40.0	44.9	42.5	40.0
87.5°	14.6	15.8	14.6	9.7	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)