

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: P259502

Luminaire Tested: **22CZ-LD5-24-S-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259502
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-L92765-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2195.0 lumens
Efficiency: N/A
Efficacy: 123.6 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

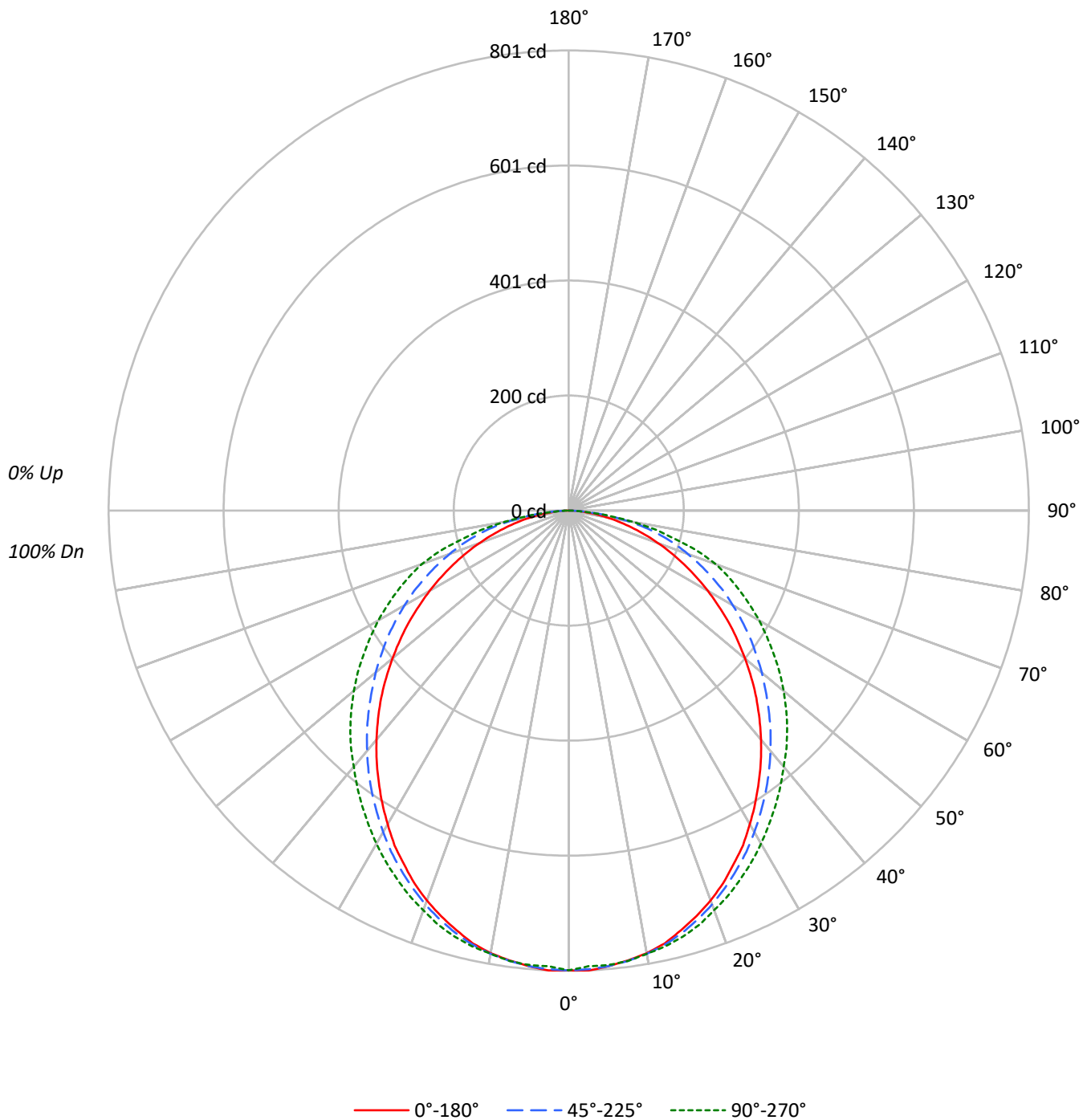
Input Watts (W): 17.763
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259502

CATALOG NUMBER: 22CZ-LD5-24-S-UNV-L92765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P259502

CATALOG NUMBER: 22CZ-LD5-24-S-UNV-L92765-W2A1-U-4000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	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	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°	2153	2153	2153
5°	2150	2150	2145
10°	2138	2140	2140
15°	2106	2121	2138
20°	2068	2089	2119
25°	2016	2051	2100
30°	1959	2008	2080
35°	1895	1964	2061
40°	1829	1918	2044
45°	1757	1874	2046
50°	1677	1836	2043
55°	1597	1805	2043
60°	1504	1776	2060
65°	1410	1752	2088
70°	1302	1733	2140
75°	1173	1721	1984
80°	1029	1601	1733
85°	846	1204	1074



TEST NUMBER: P259502

CATALOG NUMBER: 22CZ-LD5-24-S-UNV-L92765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.6	3.4
10°-20°	214.7	9.8
20°-30°	318.8	14.5
30°-40°	375.3	17.1
40°-50°	382.6	17.4
50°-60°	345.1	15.7
60°-70°	271.8	12.4
70°-80°	167.7	7.6
80°-90°	43.5	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°	609.1	27.7
0°-40°	984.4	44.8
0°-60°	1712.0	78.0
0°-90°	2195.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2195.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	800	800	800	800	800	
5°	796	797	796	795	794	76
15°	756	759	761	765	768	213
25°	679	683	691	702	707	313
35°	577	583	598	617	627	361
45°	462	469	492	522	538	356
55°	340	352	385	420	435	304
65°	221	237	275	310	328	219
75°	113	132	166	184	191	120
85°	27	35	39	37	35	32
90°	0	0	0	0	0	



TEST NUMBER: P259502

CATALOG NUMBER: 22CZ-LD5-24-S-UNV-L92765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	800.2	800.2	800.2	800.2	800.2
2.5°	801.3	801.3	799.2	797.0	793.9
5°	796.0	797.0	796.0	794.9	793.9
7.5°	789.7	790.7	790.7	790.7	790.7
10°	782.3	783.3	783.3	783.3	783.3
12.5°	771.7	772.8	773.9	774.9	777.0
15°	755.9	759.1	761.2	765.4	767.5
17.5°	740.1	743.3	746.4	751.7	755.9
20°	722.2	724.3	729.6	735.9	740.1
22.5°	702.2	705.3	710.6	719.0	725.4
25°	679.0	683.2	690.6	702.2	707.4
27.5°	656.8	660.0	669.5	682.1	689.5
30°	630.5	634.7	646.3	662.1	669.5
32.5°	604.1	609.4	622.0	640.0	648.4
35°	576.7	583.0	597.8	616.8	627.3
37.5°	549.3	555.6	572.5	593.6	605.2
40°	520.8	527.1	546.1	569.3	582.0
42.5°	491.3	498.7	519.8	546.1	560.9
45°	461.8	469.2	492.4	521.9	537.7
47.5°	431.2	439.6	464.9	497.6	513.4
50°	400.6	410.1	438.6	472.3	488.1
52.5°	370.1	380.6	411.2	446.0	462.8
55°	340.5	352.1	384.8	419.6	435.4
57.5°	308.9	322.6	357.4	391.1	409.1
60°	279.4	294.1	330.0	363.7	382.7
62.5°	249.9	265.7	303.6	337.4	355.3
65°	221.4	237.2	275.2	310.0	327.9
67.5°	192.9	210.9	247.8	282.6	300.5
70°	165.5	184.5	220.3	254.1	272.0
72.5°	139.2	158.1	194.0	225.6	236.2
75°	112.8	131.8	165.5	184.5	190.8
77.5°	88.6	106.5	136.0	147.6	156.0
80°	66.4	82.2	103.3	110.7	111.8
82.5°	45.3	59.0	71.7	72.7	71.7
85°	27.4	34.8	39.0	36.9	34.8
87.5°	12.7	13.7	12.7	8.4	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)