

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: P259447

Luminaire Tested: **22CZ-LD5-24-S-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259447
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-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2428.0 lumens
Efficiency: N/A
Efficacy: 137.4 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

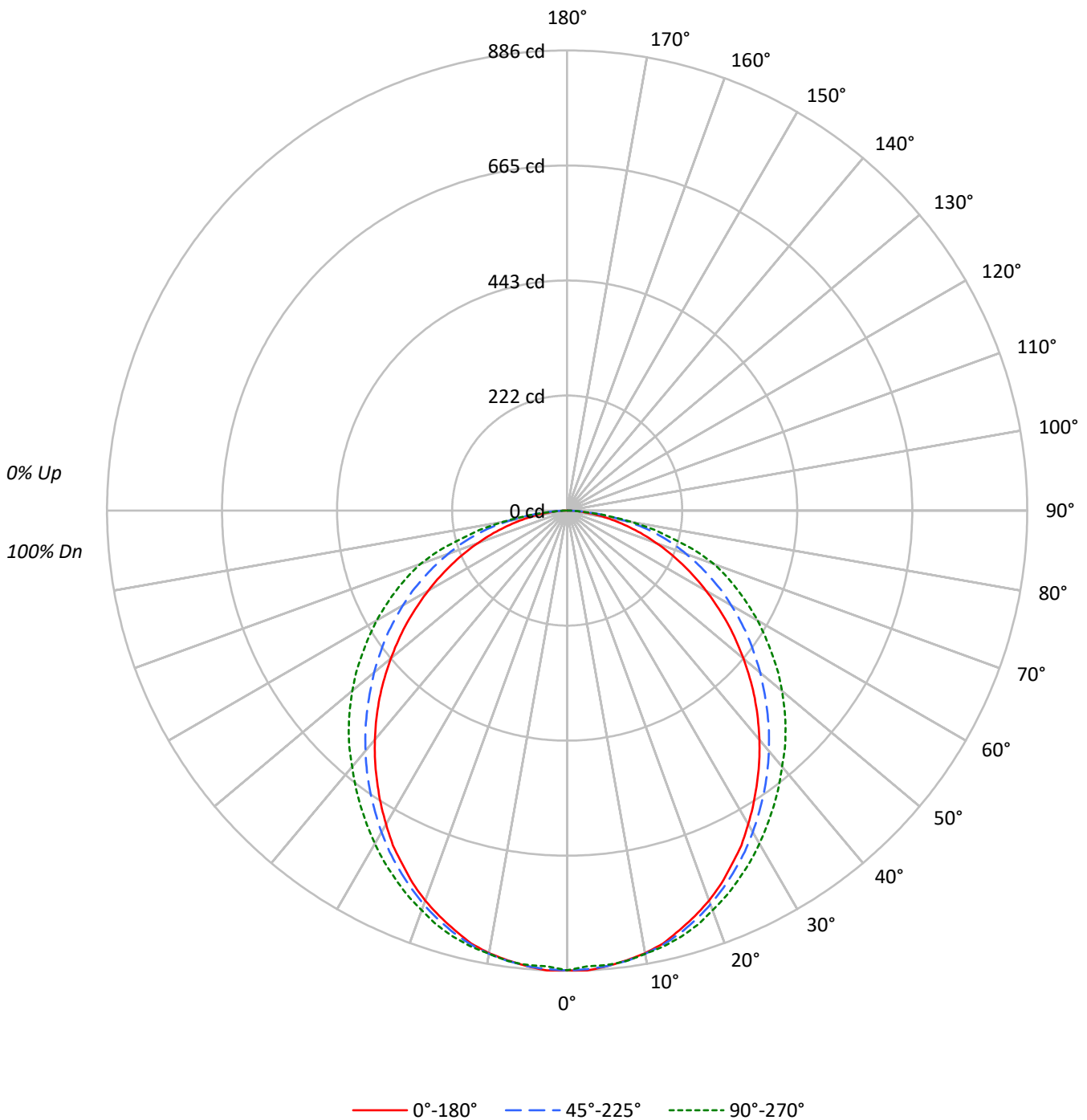
Input Watts (W): 17.67
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259447

CATALOG NUMBER: 22CZ-LD5-24-S-UNV-L82765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P259447

CATALOG NUMBER: 22CZ-LD5-24-S-UNV-L82765-W2A1-U-3500K

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°	2382	2382	2382
5°	2378	2378	2372
10°	2364	2368	2368
15°	2330	2346	2365
20°	2288	2311	2344
25°	2230	2268	2323
30°	2167	2221	2301
35°	2096	2172	2280
40°	2024	2122	2261
45°	1944	2073	2264
50°	1855	2031	2261
55°	1767	1997	2259
60°	1663	1964	2278
65°	1559	1938	2309
70°	1441	1917	2367
75°	1298	1904	2195
80°	1139	1771	1915
85°	936	1331	1189



TEST NUMBER: P259447

CATALOG NUMBER: 22CZ-LD5-24-S-UNV-L82765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	3.4
10°-20°	237.5	9.8
20°-30°	352.7	14.5
30°-40°	415.1	17.1
40°-50°	423.2	17.4
50°-60°	381.7	15.7
60°-70°	300.7	12.4
70°-80°	185.5	7.6
80°-90°	48.1	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°	673.7	27.7
0°-40°	1088.8	44.8
0°-60°	1893.8	78.0
0°-90°	2428.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2428.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	885	885	885	885	885	
5°	880	882	880	879	878	84
15°	836	840	842	847	849	236
25°	751	756	764	777	782	346
35°	638	645	661	682	694	399
45°	511	519	545	577	595	394
55°	377	390	426	464	482	336
65°	245	262	304	343	363	243
75°	125	146	183	204	211	133
85°	30	38	43	41	38	36
90°	0	0	0	0	0	



TEST NUMBER: P259447

CATALOG NUMBER: 22CZ-LD5-24-S-UNV-L82765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	885.1	885.1	885.1	885.1	885.1
2.5°	886.3	886.3	884.0	881.7	878.2
5°	880.5	881.7	880.5	879.3	878.2
7.5°	873.5	874.7	874.7	874.7	874.7
10°	865.3	866.5	866.5	866.5	866.5
12.5°	853.7	854.8	856.0	857.2	859.5
15°	836.2	839.7	842.0	846.7	849.0
17.5°	818.7	822.2	825.7	831.5	836.2
20°	798.9	801.2	807.0	814.0	818.7
22.5°	776.7	780.2	786.0	795.4	802.3
25°	751.0	755.7	763.9	776.7	782.5
27.5°	726.5	730.0	740.5	754.5	762.7
30°	697.4	702.1	714.9	732.4	740.5
32.5°	668.2	674.1	688.1	707.9	717.2
35°	637.9	644.9	661.2	682.2	693.9
37.5°	607.6	614.6	633.2	656.6	669.4
40°	576.1	583.1	604.1	629.8	643.7
42.5°	543.5	551.6	574.9	604.1	620.4
45°	510.8	519.0	544.6	577.3	594.8
47.5°	477.0	486.3	514.3	550.4	567.9
50°	443.2	453.7	485.1	522.5	540.0
52.5°	409.3	421.0	454.8	493.3	512.0
55°	376.7	389.5	425.7	464.1	481.6
57.5°	341.7	356.9	395.3	432.7	452.5
60°	309.0	325.4	365.0	402.3	423.3
62.5°	276.4	293.9	335.9	373.2	393.0
65°	244.9	262.4	304.4	342.9	362.7
67.5°	213.4	233.2	274.1	312.5	332.4
70°	183.1	204.1	243.7	281.1	300.9
72.5°	153.9	174.9	214.6	249.6	261.2
75°	124.8	145.8	183.1	204.1	211.1
77.5°	98.0	117.8	150.4	163.3	172.6
80°	73.5	91.0	114.3	122.5	123.6
82.5°	50.1	65.3	79.3	80.5	79.3
85°	30.3	38.5	43.1	40.8	38.5
87.5°	14.0	15.2	14.0	9.3	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)