

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: P259285

Luminaire Tested: **22CZ-LD5-24-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-24-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2547.0 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

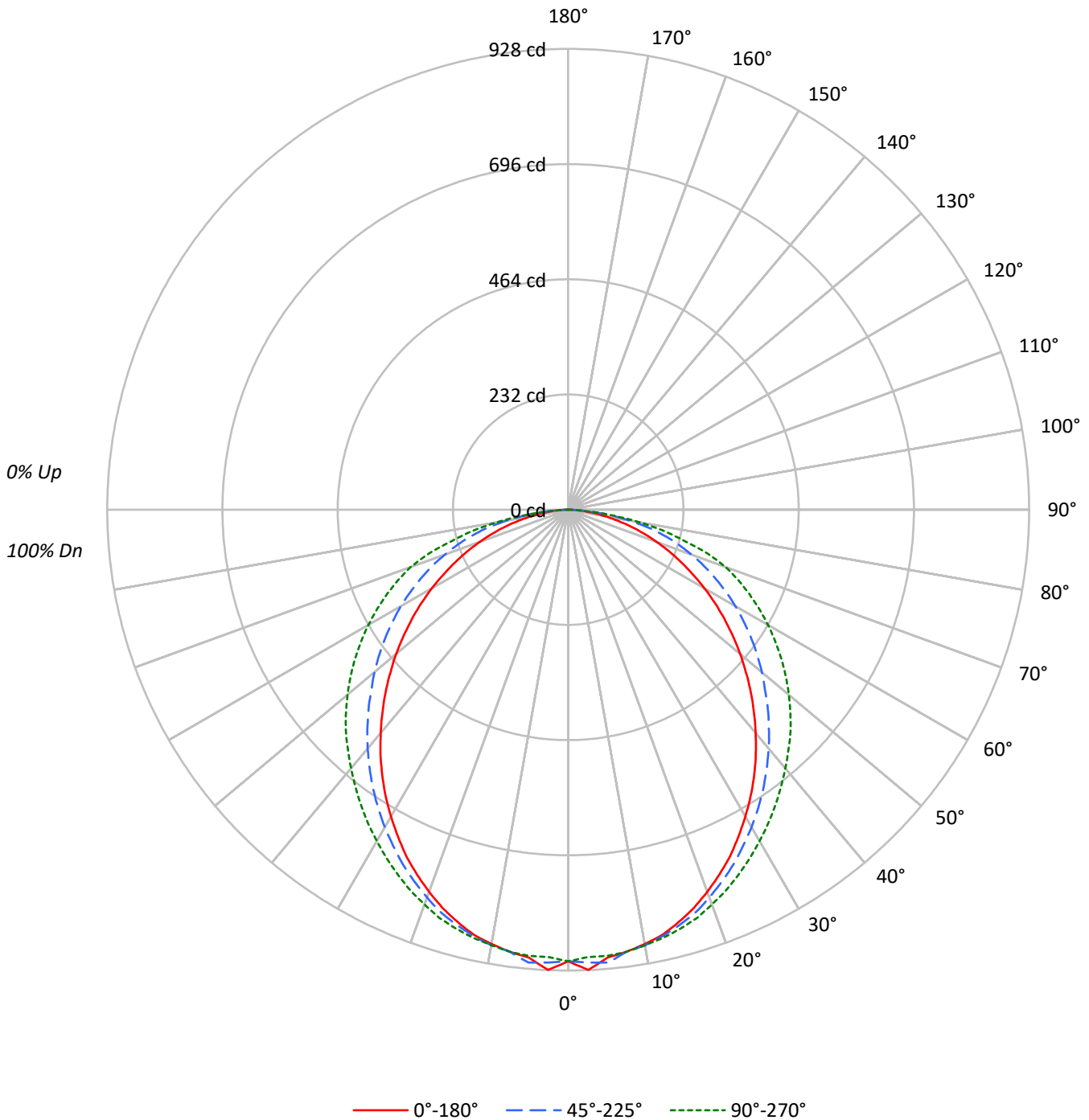
Input Watts (W): 18.321
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259285

CATALOG NUMBER: 22CZ-LD5-24-UNV-L82765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P259285

CATALOG NUMBER: 22CZ-LD5-24-UNV-L82765-W2A1-U-6500K

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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2446	2446	2446
5°	2446	2472	2436
10°	2427	2433	2433
15°	2395	2412	2433
20°	2344	2380	2422
25°	2287	2339	2409
30°	2217	2294	2394
35°	2144	2250	2388
40°	2062	2206	2389
45°	1980	2163	2409
50°	1893	2131	2427
55°	1802	2109	2458
60°	1707	2093	2500
65°	1601	2082	2563
70°	1491	2076	2651
75°	1352	2073	2511
80°	1172	1920	2227
85°	994	1454	1414



TEST NUMBER: P259285

CATALOG NUMBER: 22CZ-LD5-24-UNV-L82765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	3.4
10°-20°	244.2	9.6
20°-30°	363.3	14.3
30°-40°	429.7	16.9
40°-50°	441.7	17.3
50°-60°	403.6	15.8
60°-70°	322.8	12.7
70°-80°	202.6	8.0
80°-90°	52.8	2.1
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°	693.8	27.2
0°-40°	1123.5	44.1
0°-60°	1968.8	77.3
0°-90°	2547.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2547.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	909	909	909	909	909	
5°	905	905	915	909	902	86
15°	860	861	866	871	873	242
25°	770	775	788	801	811	354
35°	653	661	685	711	727	408
45°	520	534	568	611	633	401
55°	384	402	450	499	524	343
65°	251	274	327	376	402	250
75°	130	155	199	229	242	138
85°	32	41	47	46	46	37
90°	0	0	0	0	0	



TEST NUMBER: P259285

CATALOG NUMBER: 22CZ-LD5-24-UNV-L82765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	909.1	909.1	909.1	909.1	909.1
2.5°	927.7	924.0	912.8	905.4	901.7
5°	905.4	905.4	915.3	909.1	901.7
7.5°	898.0	898.0	898.0	916.5	898.0
10°	888.1	889.3	890.5	898.0	890.5
12.5°	876.9	876.9	879.4	881.9	883.1
15°	859.6	860.8	865.8	870.7	873.2
17.5°	841.0	844.7	850.9	857.1	862.0
20°	818.7	823.6	831.1	841.0	845.9
22.5°	795.2	800.1	810.0	821.2	829.8
25°	770.4	775.3	787.7	801.4	811.3
27.5°	741.9	748.1	763.0	781.5	791.4
30°	713.4	720.8	738.2	759.2	770.4
32.5°	683.7	692.4	712.2	735.7	749.3
35°	652.7	661.4	684.9	710.9	727.0
37.5°	620.5	630.4	656.4	686.2	703.5
40°	587.1	598.2	628.0	660.2	680.0
42.5°	553.6	566.0	598.2	636.6	656.4
45°	520.2	533.8	568.5	610.6	632.9
47.5°	485.5	501.6	537.5	584.6	606.9
50°	452.1	468.2	509.1	557.4	579.7
52.5°	417.4	436.0	479.3	528.9	552.4
55°	384.0	402.5	449.6	499.1	523.9
57.5°	350.5	369.1	418.6	469.4	494.2
60°	317.1	336.9	388.9	438.5	464.5
62.5°	283.6	304.7	357.9	408.7	433.5
65°	251.4	273.7	327.0	376.5	402.5
67.5°	220.5	244.0	296.0	344.3	370.3
70°	189.5	213.0	263.8	310.9	336.9
72.5°	159.8	183.3	232.9	275.0	294.8
75°	130.0	154.8	199.4	229.1	241.5
77.5°	101.6	126.3	164.7	184.5	198.2
80°	75.6	96.6	123.9	138.7	143.7
82.5°	52.0	69.4	86.7	90.4	92.9
85°	32.2	40.9	47.1	45.8	45.8
87.5°	14.9	16.1	13.6	9.9	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)