

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: P259453

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259453
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-6500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2598.0 lumens
Efficiency: N/A
Efficacy: 141.8 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

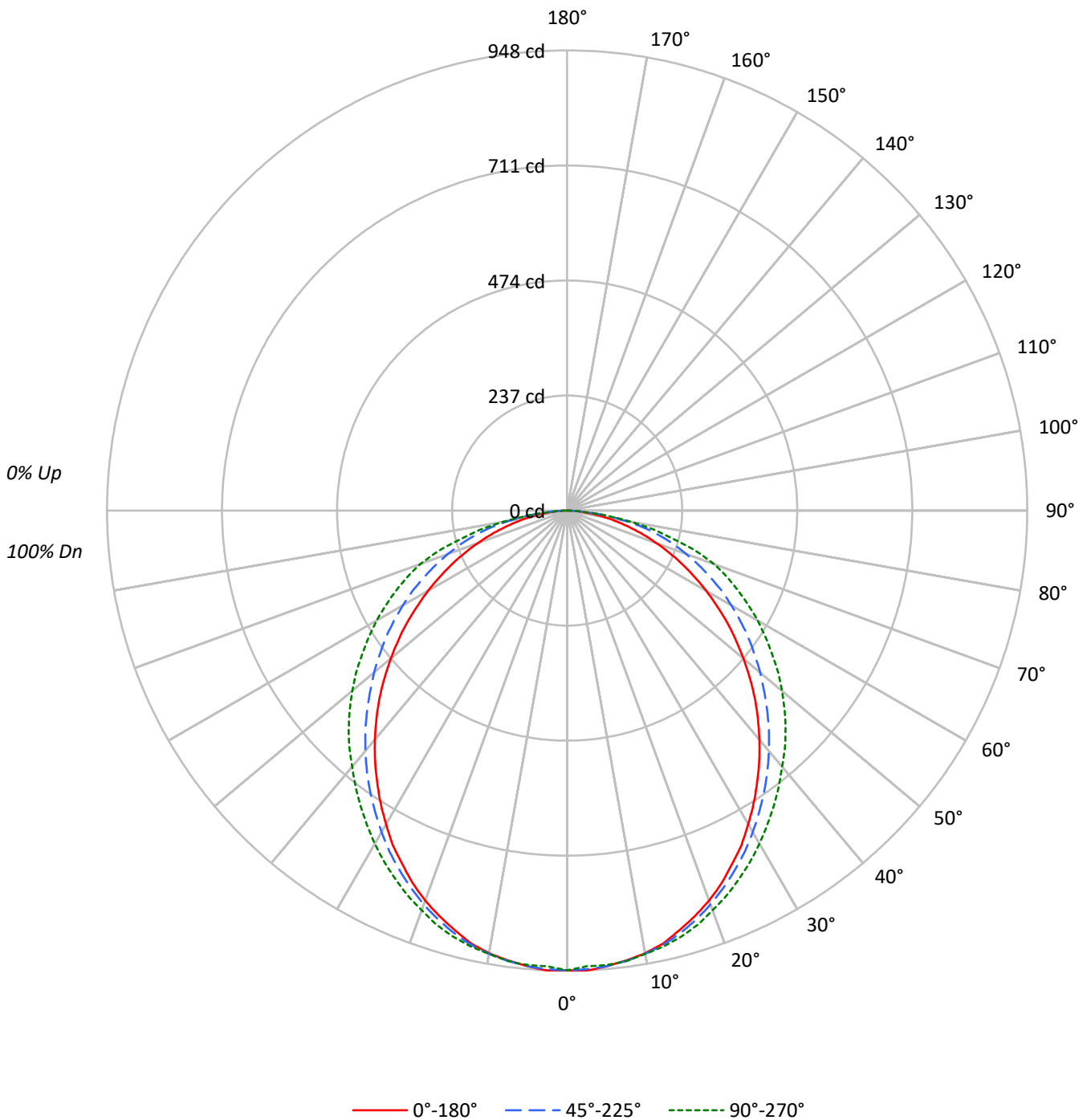
Input Watts (W): 18.321
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83					83			
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58					58			
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43					43			
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2549	2549	2549
5°	2545	2545	2538
10°	2530	2534	2534
15°	2493	2510	2531
20°	2448	2473	2509
25°	2386	2427	2486
30°	2319	2377	2462
35°	2242	2324	2439
40°	2165	2271	2420
45°	2080	2218	2422
50°	1985	2173	2419
55°	1891	2137	2418
60°	1780	2102	2438
65°	1669	2074	2471
70°	1541	2052	2533
75°	1388	2037	2349
80°	1218	1895	2050
85°	1000	1426	1272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.4	3.4
10°-20°	254.1	9.8
20°-30°	377.4	14.5
30°-40°	444.2	17.1
40°-50°	452.8	17.4
50°-60°	408.4	15.7
60°-70°	321.7	12.4
70°-80°	198.4	7.6
80°-90°	51.5	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°	720.9	27.7
0°-40°	1165.1	44.8
0°-60°	2026.3	78.0
0°-90°	2598.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2598.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	947	947	947	947	947	
5°	942	943	942	941	940	89
15°	895	898	901	906	908	252
25°	804	809	817	831	837	370
35°	683	690	708	730	742	427
45°	547	555	583	618	636	421
55°	403	417	456	497	515	360
65°	262	281	326	367	388	260
75°	134	156	196	218	226	142
85°	32	41	46	44	41	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	947.1	947.1	947.1	947.1	947.1
2.5°	948.4	948.4	945.9	943.4	939.6
5°	942.1	943.4	942.1	940.9	939.6
7.5°	934.6	935.9	935.9	935.9	935.9
10°	925.9	927.2	927.2	927.2	927.2
12.5°	913.4	914.7	915.9	917.2	919.7
15°	894.7	898.5	901.0	905.9	908.4
17.5°	876.0	879.7	883.5	889.7	894.7
20°	854.8	857.3	863.5	871.0	876.0
22.5°	831.1	834.8	841.1	851.0	858.5
25°	803.6	808.6	817.3	831.1	837.3
27.5°	777.4	781.2	792.4	807.4	816.1
30°	746.2	751.2	764.9	783.7	792.4
32.5°	715.0	721.3	736.2	757.5	767.4
35°	682.6	690.1	707.5	730.0	742.5
37.5°	650.1	657.6	677.6	702.5	716.3
40°	616.4	623.9	646.4	673.8	688.8
42.5°	581.5	590.2	615.2	646.4	663.9
45°	546.6	555.3	582.7	617.7	636.4
47.5°	510.4	520.4	550.3	589.0	607.7
50°	474.2	485.4	519.1	559.0	577.8
52.5°	438.0	450.5	486.7	527.8	547.8
55°	403.1	416.8	455.5	496.6	515.4
57.5°	365.6	381.8	423.0	463.0	484.2
60°	330.7	348.2	390.6	430.5	453.0
62.5°	295.7	314.5	359.4	399.3	420.5
65°	262.1	280.8	325.7	366.9	388.1
67.5°	228.4	249.6	293.2	334.4	355.6
70°	195.9	218.4	260.8	300.7	321.9
72.5°	164.7	187.2	229.6	267.0	279.5
75°	133.5	156.0	195.9	218.4	225.9
77.5°	104.8	126.0	161.0	174.7	184.7
80°	78.6	97.3	122.3	131.0	132.3
82.5°	53.7	69.9	84.9	86.1	84.9
85°	32.4	41.2	46.2	43.7	41.2
87.5°	15.0	16.2	15.0	10.0	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)