

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: P259451

Luminaire Tested: **22CZ-LD5-24-S-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259451
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-5500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2585.0 lumens
Efficiency: N/A
Efficacy: 143.3 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

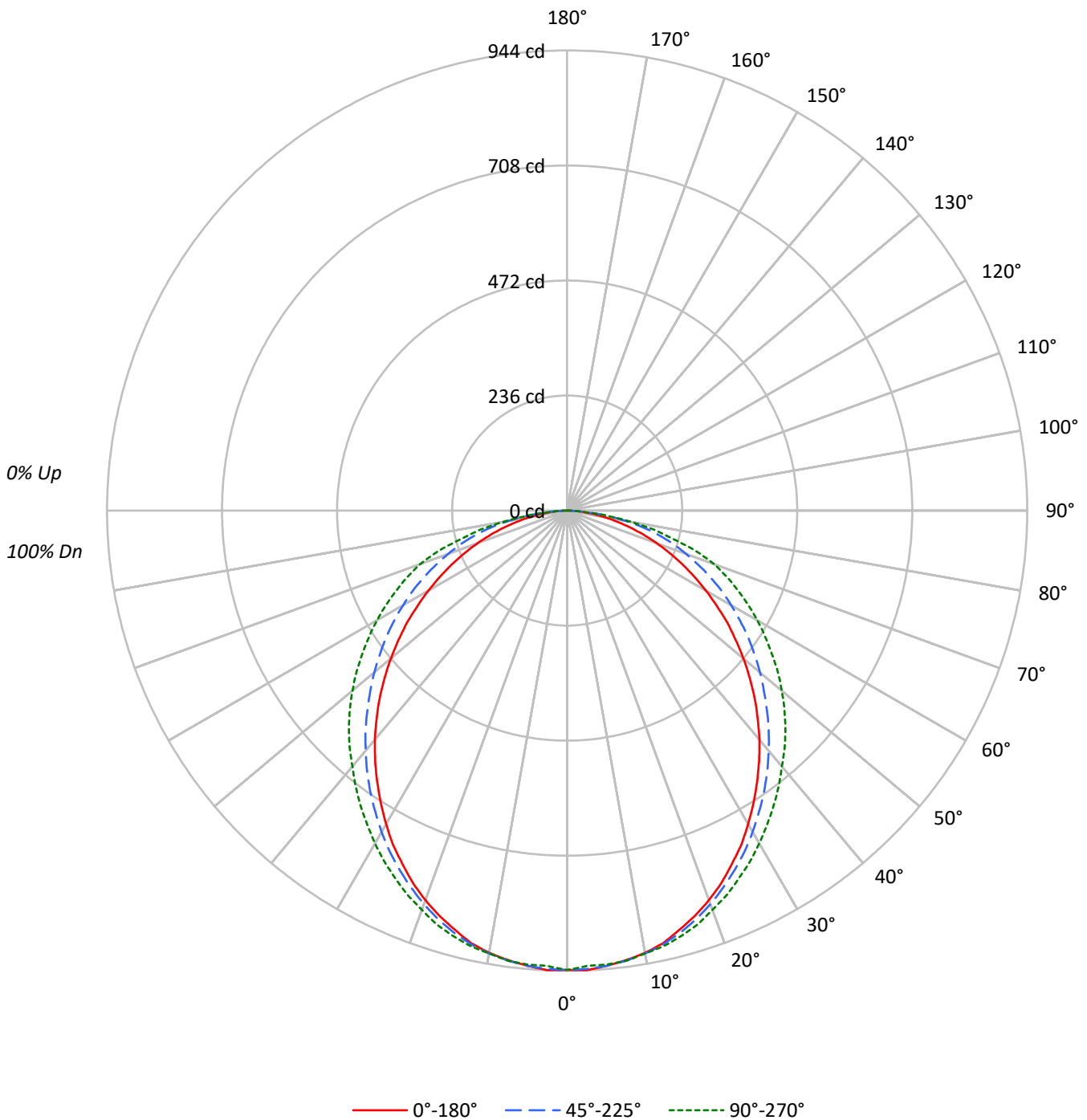
Input Watts (W): 18.042
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2536	2536	2536
5°	2532	2532	2525
10°	2517	2521	2521
15°	2480	2497	2518
20°	2436	2460	2496
25°	2374	2415	2474
30°	2307	2365	2450
35°	2231	2313	2427
40°	2155	2259	2408
45°	2069	2206	2410
50°	1975	2162	2407
55°	1881	2126	2406
60°	1771	2091	2426
65°	1660	2064	2458
70°	1533	2042	2520
75°	1382	2026	2336
80°	1212	1886	2039
85°	997	1417	1266



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	3.4
10°-20°	252.8	9.8
20°-30°	375.5	14.5
30°-40°	442.0	17.1
40°-50°	450.6	17.4
50°-60°	406.4	15.7
60°-70°	320.1	12.4
70°-80°	197.4	7.6
80°-90°	51.3	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°	717.3	27.7
0°-40°	1159.2	44.8
0°-60°	2016.2	78.0
0°-90°	2585.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2585.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	942	942	942	942	942	
5°	937	939	937	936	935	89
15°	890	894	896	901	904	251
25°	800	805	813	827	833	368
35°	679	687	704	726	739	425
45°	544	552	580	615	633	419
55°	401	415	453	494	513	358
65°	261	279	324	365	386	258
75°	133	155	195	217	225	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°	942.4	942.4	942.4	942.4	942.4
2.5°	943.6	943.6	941.1	938.7	934.9
5°	937.4	938.7	937.4	936.2	934.9
7.5°	930.0	931.2	931.2	931.2	931.2
10°	921.3	922.5	922.5	922.5	922.5
12.5°	908.9	910.1	911.3	912.6	915.1
15°	890.2	894.0	896.4	901.4	903.9
17.5°	871.6	875.3	879.1	885.3	890.2
20°	850.5	853.0	859.2	866.6	871.6
22.5°	826.9	830.6	836.8	846.8	854.2
25°	799.6	804.6	813.3	826.9	833.1
27.5°	773.5	777.3	788.4	803.3	812.0
30°	742.5	747.5	761.1	779.7	788.4
32.5°	711.4	717.7	732.6	753.7	763.6
35°	679.2	686.6	704.0	726.3	738.8
37.5°	646.9	654.3	674.2	699.0	712.7
40°	613.4	620.8	643.2	670.5	685.4
42.5°	578.6	587.3	612.1	643.2	660.5
45°	543.8	552.5	579.8	614.6	633.2
47.5°	507.8	517.8	547.6	586.0	604.7
50°	471.8	483.0	516.5	556.2	574.9
52.5°	435.8	448.2	484.2	525.2	545.1
55°	401.0	414.7	453.2	494.2	512.8
57.5°	363.8	379.9	420.9	460.6	481.7
60°	329.0	346.4	388.6	428.4	450.7
62.5°	294.3	312.9	357.6	397.3	418.4
65°	260.7	279.4	324.1	365.0	386.1
67.5°	227.2	248.3	291.8	332.8	353.9
70°	194.9	217.3	259.5	299.2	320.3
72.5°	163.9	186.2	228.5	265.7	278.1
75°	132.9	155.2	194.9	217.3	224.7
77.5°	104.3	125.4	160.2	173.8	183.8
80°	78.2	96.8	121.7	130.4	131.6
82.5°	53.4	69.5	84.4	85.7	84.4
85°	32.3	41.0	45.9	43.5	41.0
87.5°	14.9	16.1	14.9	9.9	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)