

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: P261196

Luminaire Tested: **24CZ-LD5-70-S-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-70-S-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7025.0 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

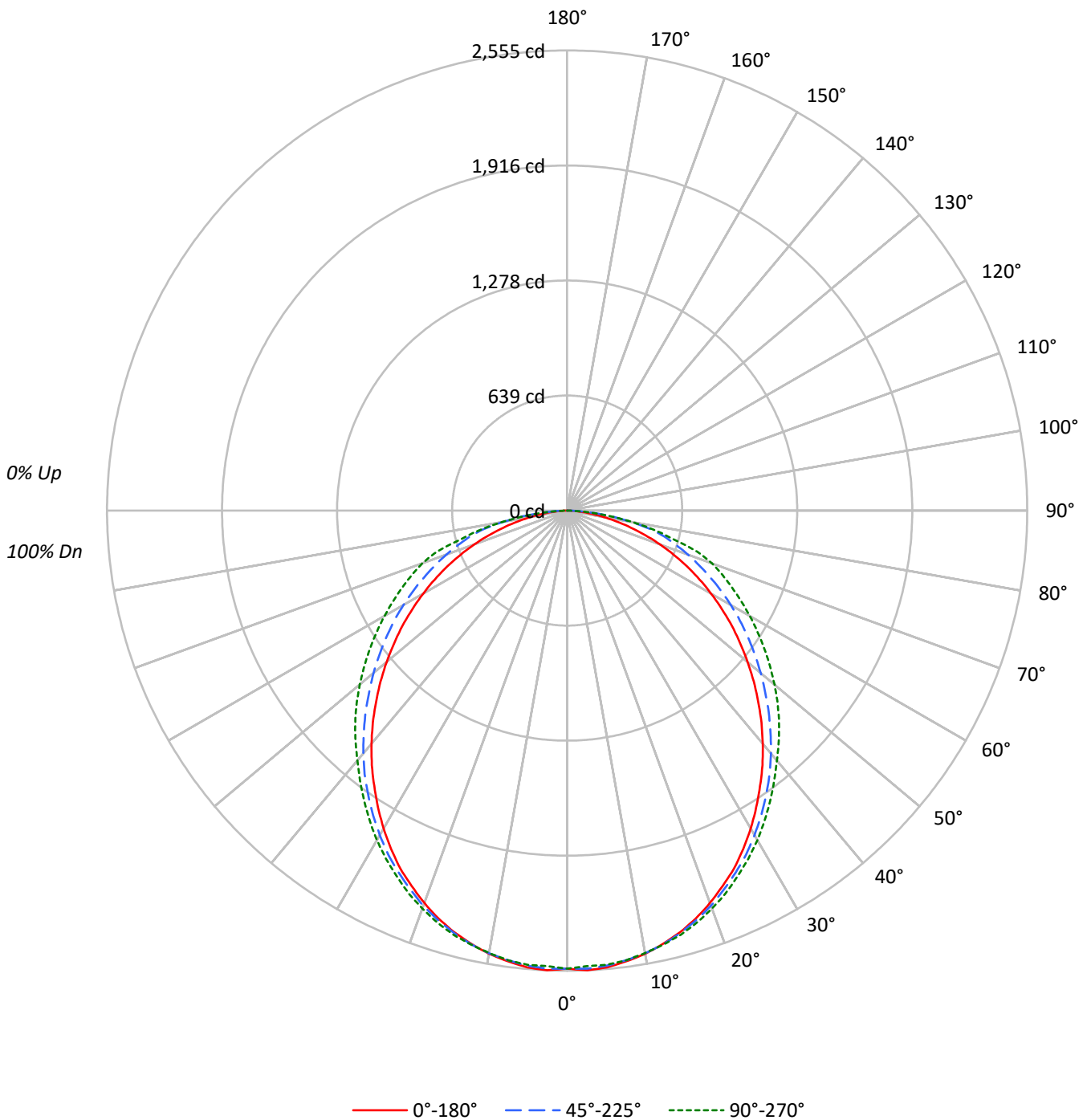
Input Watts (W): 53.94
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P261196

CATALOG NUMBER: 24CZ-LD5-70-S-UNV-L82765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P261196

CATALOG NUMBER: 24CZ-LD5-70-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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	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	35	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	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3422	3422	3422
5°	3438	3425	3419
10°	3414	3411	3408
15°	3377	3383	3396
20°	3320	3343	3367
25°	3255	3290	3324
30°	3167	3232	3283
35°	3068	3164	3229
40°	2968	3091	3182
45°	2856	3011	3167
50°	2740	2936	3146
55°	2621	2873	3136
60°	2485	2824	3151
65°	2337	2791	3215
70°	2152	2805	3365
75°	1908	2904	3135
80°	1594	2753	2825
85°	1190	2201	2021



TEST NUMBER: P261196

CATALOG NUMBER: 24CZ-LD5-70-S-UNV-L82765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.4	3.4
10°-20°	683.8	9.7
20°-30°	1019.1	14.5
30°-40°	1199.6	17.1
40°-50°	1219.1	17.4
50°-60°	1096.1	15.6
60°-70°	865.9	12.3
70°-80°	549.3	7.8
80°-90°	151.6	2.2
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°	1943.4	27.7
0°-40°	3143.0	44.7
0°-60°	5458.2	77.7
0°-90°	7025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7025.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2543	2543	2543	2543	2543	
5°	2546	2524	2536	2532	2532	241
15°	2424	2412	2429	2436	2438	683
25°	2193	2190	2216	2230	2239	1008
35°	1868	1879	1926	1947	1966	1168
45°	1501	1522	1582	1629	1664	1158
55°	1117	1145	1225	1304	1337	998
65°	734	771	877	972	1010	727
75°	367	430	559	608	603	391
85°	77	133	143	131	131	95
90°	0	0	0	0	0	



TEST NUMBER: P261196

CATALOG NUMBER: 24CZ-LD5-70-S-UNV-L82765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2543.2	2543.2	2543.2	2543.2	2543.2
2.5°	2554.9	2536.2	2545.5	2540.8	2531.5
5°	2545.5	2524.5	2536.2	2531.5	2531.5
7.5°	2524.5	2508.1	2517.5	2515.1	2517.5
10°	2498.8	2482.4	2496.4	2496.4	2494.1
12.5°	2463.7	2449.7	2466.0	2466.0	2468.4
15°	2424.0	2412.3	2428.6	2435.7	2438.0
17.5°	2374.9	2363.2	2384.2	2391.2	2398.3
20°	2318.8	2314.1	2335.1	2342.2	2351.5
22.5°	2255.7	2255.7	2276.7	2286.1	2300.1
25°	2192.6	2190.2	2215.9	2230.0	2239.3
27.5°	2117.8	2120.1	2152.8	2166.8	2178.5
30°	2038.3	2043.0	2080.4	2096.7	2113.1
32.5°	1954.1	1963.5	2005.6	2024.3	2040.6
35°	1867.6	1879.3	1926.1	1947.1	1965.8
37.5°	1781.2	1797.5	1846.6	1867.6	1888.7
40°	1690.0	1704.0	1760.1	1785.8	1811.5
42.5°	1596.5	1615.2	1671.3	1708.7	1739.1
45°	1500.7	1521.7	1582.5	1629.2	1664.3
47.5°	1404.8	1432.9	1491.3	1554.4	1584.8
50°	1309.0	1337.0	1402.5	1472.6	1503.0
52.5°	1210.8	1238.9	1313.7	1386.1	1418.9
55°	1117.3	1145.4	1224.8	1304.3	1337.0
57.5°	1019.1	1049.5	1138.4	1220.2	1252.9
60°	923.3	953.7	1049.5	1136.0	1171.1
62.5°	829.8	862.5	963.0	1054.2	1089.3
65°	734.0	771.4	876.6	972.4	1009.8
67.5°	640.5	682.5	792.4	892.9	932.7
70°	547.0	596.1	712.9	815.8	855.5
72.5°	455.8	509.6	633.5	736.3	757.3
75°	367.0	430.1	558.7	607.7	603.1
77.5°	282.8	353.0	474.5	483.9	497.9
80°	205.7	282.8	355.3	374.0	364.6
82.5°	135.6	212.7	254.8	245.4	243.1
85°	77.1	133.2	142.6	130.9	130.9
87.5°	32.7	53.8	46.7	35.1	32.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)