

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: P261312

Luminaire Tested: **24CZ-LD5-60-S-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261312
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-LD5-60-S-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5013.0 lumens
Efficiency: N/A
Efficacy: 114.2 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

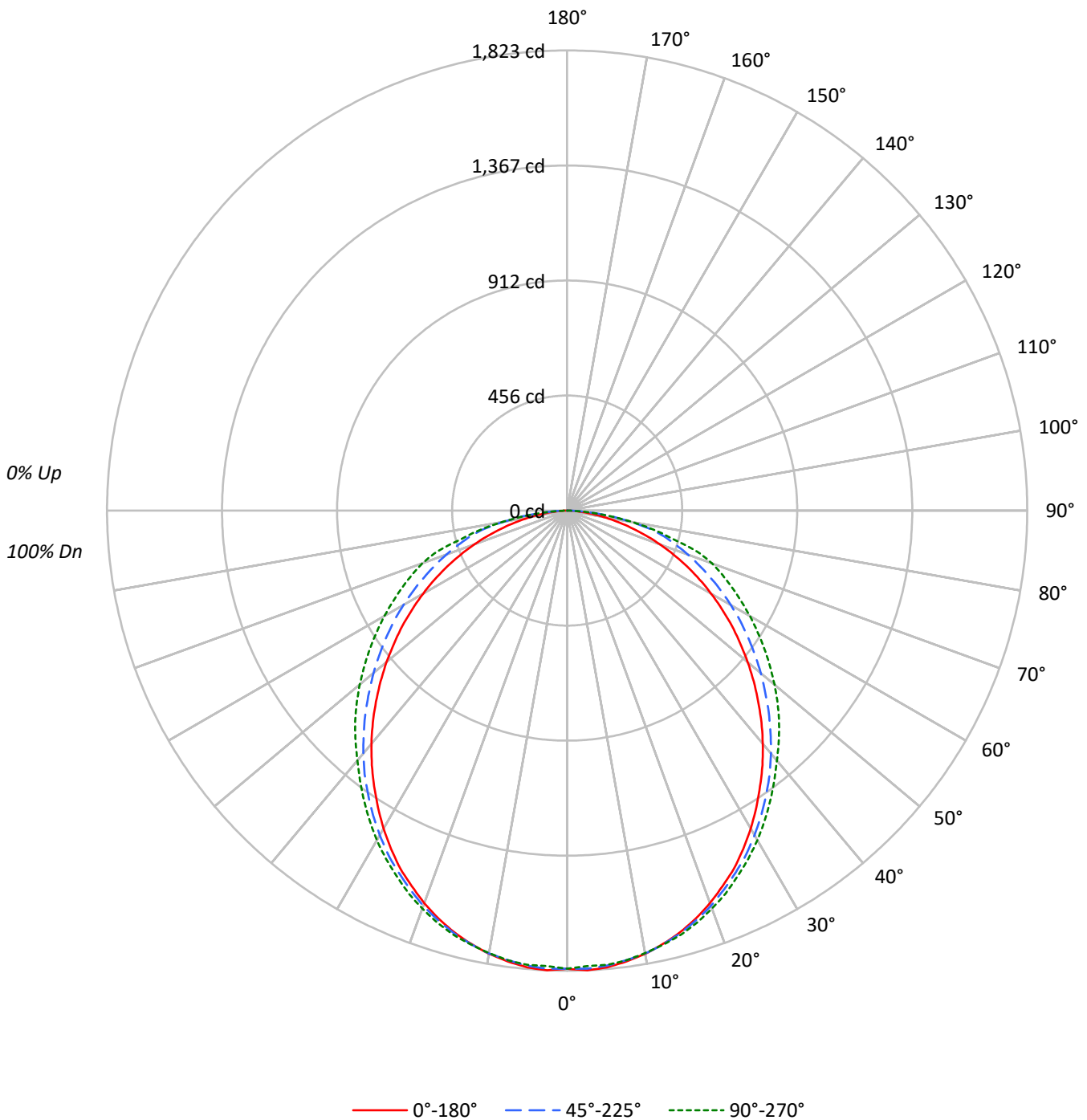
Input Watts (W): 43.896
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2442	2442	2442
5°	2453	2444	2440
10°	2436	2434	2432
15°	2409	2414	2423
20°	2369	2386	2403
25°	2323	2348	2372
30°	2260	2306	2343
35°	2189	2258	2304
40°	2118	2206	2271
45°	2038	2149	2260
50°	1955	2095	2245
55°	1870	2050	2238
60°	1773	2015	2249
65°	1668	1991	2294
70°	1535	2001	2402
75°	1362	2073	2237
80°	1137	1964	2016
85°	849	1570	1442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.6	3.4
10°-20°	488.0	9.7
20°-30°	727.2	14.5
30°-40°	856.0	17.1
40°-50°	869.9	17.4
50°-60°	782.1	15.6
60°-70°	617.9	12.3
70°-80°	392.0	7.8
80°-90°	108.2	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°	1386.8	27.7
0°-40°	2242.8	44.7
0°-60°	3894.9	77.7
0°-90°	5013.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5013.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1815	1815	1815	1815	1815	
5°	1816	1802	1810	1806	1806	172
15°	1730	1721	1733	1738	1740	487
25°	1565	1563	1581	1591	1598	719
35°	1333	1341	1374	1390	1403	834
45°	1071	1086	1129	1163	1188	826
55°	797	817	874	931	954	712
65°	524	550	626	694	721	519
75°	262	307	399	434	430	279
85°	55	95	102	93	93	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1814.8	1814.8	1814.8	1814.8	1814.8
2.5°	1823.1	1809.8	1816.5	1813.1	1806.5
5°	1816.5	1801.5	1809.8	1806.5	1806.5
7.5°	1801.5	1789.8	1796.5	1794.8	1796.5
10°	1783.1	1771.4	1781.4	1781.4	1779.8
12.5°	1758.1	1748.1	1759.8	1759.8	1761.4
15°	1729.7	1721.4	1733.1	1738.1	1739.7
17.5°	1694.7	1686.4	1701.4	1706.4	1711.4
20°	1654.7	1651.3	1666.3	1671.3	1678.0
22.5°	1609.6	1609.6	1624.6	1631.3	1641.3
25°	1564.6	1562.9	1581.3	1591.3	1598.0
27.5°	1511.2	1512.9	1536.2	1546.2	1554.6
30°	1454.5	1457.8	1484.5	1496.2	1507.9
32.5°	1394.5	1401.1	1431.2	1444.5	1456.2
35°	1332.7	1341.1	1374.4	1389.5	1402.8
37.5°	1271.0	1282.7	1317.7	1332.7	1347.8
40°	1206.0	1216.0	1256.0	1274.4	1292.7
42.5°	1139.3	1152.6	1192.6	1219.3	1241.0
45°	1070.9	1085.9	1129.2	1162.6	1187.6
47.5°	1002.5	1022.5	1064.2	1109.2	1130.9
50°	934.1	954.1	1000.8	1050.8	1072.5
52.5°	864.0	884.0	937.4	989.1	1012.5
55°	797.3	817.3	874.0	930.8	954.1
57.5°	727.3	748.9	812.3	870.7	894.1
60°	658.9	680.5	748.9	810.7	835.7
62.5°	592.1	615.5	687.2	752.3	777.3
65°	523.8	550.4	625.5	693.9	720.6
67.5°	457.0	487.1	565.5	637.2	665.5
70°	390.3	425.3	508.7	582.1	610.5
72.5°	325.3	363.6	452.0	525.4	540.4
75°	261.9	306.9	398.7	433.7	430.3
77.5°	201.8	251.9	338.6	345.3	355.3
80°	146.8	201.8	253.5	266.9	260.2
82.5°	96.7	151.8	181.8	175.1	173.5
85°	55.0	95.1	101.7	93.4	93.4
87.5°	23.4	38.4	33.4	25.0	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)