

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: P260576

Luminaire Tested: **24CZ-LD5-50-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-50-UNV-L83050-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5328.0 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

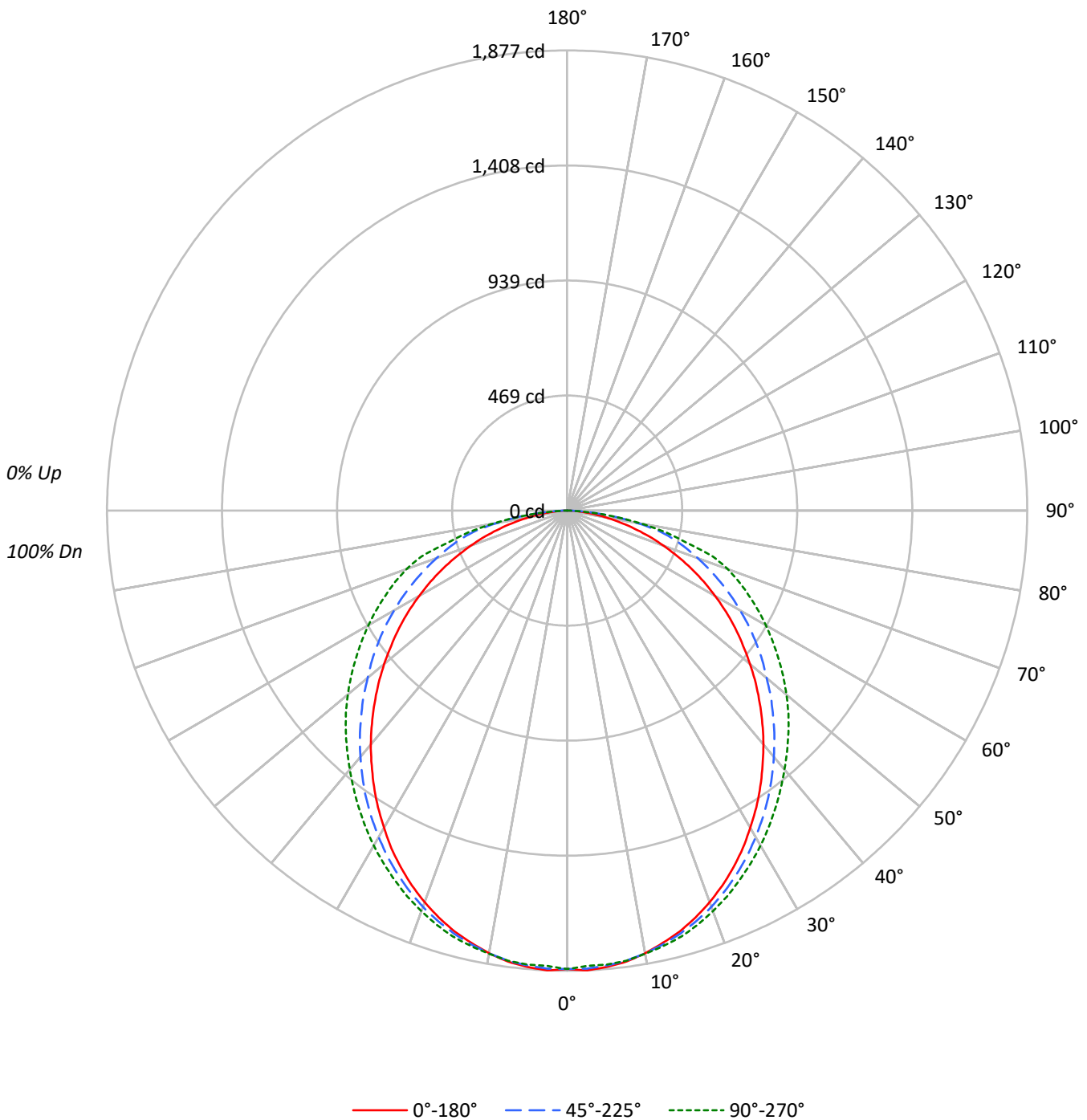
Input Watts (W): 37.461888
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2516	2516	2516
5°	2523	2516	2511
10°	2505	2505	2507
15°	2475	2488	2506
20°	2434	2463	2489
25°	2383	2429	2470
30°	2321	2389	2452
35°	2256	2349	2433
40°	2188	2304	2422
45°	2114	2260	2430
50°	2039	2222	2444
55°	1964	2208	2469
60°	1875	2194	2518
65°	1777	2195	2602
70°	1644	2232	2742
75°	1470	2333	2608
80°	1230	2233	2389
85°	929	1718	1633



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.7	3.3
10°-20°	502.9	9.4
20°-30°	751.8	14.1
30°-40°	891.9	16.7
40°-50°	918.0	17.2
50°-60°	842.1	15.8
60°-70°	680.9	12.8
70°-80°	441.9	8.3
80°-90°	121.8	2.3
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°	1431.4	26.9
0°-40°	2323.3	43.6
0°-60°	4083.4	76.6
0°-90°	5328.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5328.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1870	1870	1870	1870	1870	
5°	1868	1855	1863	1861	1859	177
15°	1777	1770	1786	1793	1799	501
25°	1605	1607	1636	1651	1664	739
35°	1374	1385	1430	1461	1481	859
45°	1111	1129	1188	1244	1277	857
55°	837	863	941	1018	1053	748
65°	558	591	690	781	817	552
75°	283	336	449	502	502	301
85°	60	102	111	108	106	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1869.9	1869.9	1869.9	1869.9	1869.9
2.5°	1877.1	1862.6	1869.9	1868.0	1858.9
5°	1868.0	1855.3	1862.6	1860.7	1858.9
7.5°	1855.3	1842.5	1851.6	1849.8	1851.6
10°	1833.4	1822.4	1833.4	1835.2	1835.2
12.5°	1806.0	1796.9	1811.5	1815.1	1818.8
15°	1776.8	1769.5	1785.9	1793.2	1798.7
17.5°	1740.3	1734.9	1754.9	1764.0	1771.3
20°	1700.2	1698.4	1720.3	1729.4	1738.5
22.5°	1654.6	1654.6	1680.1	1691.1	1703.8
25°	1605.3	1607.2	1636.3	1650.9	1663.7
27.5°	1552.4	1554.3	1588.9	1607.2	1621.8
30°	1494.1	1501.4	1537.8	1561.6	1578.0
32.5°	1435.7	1444.8	1484.9	1512.3	1530.5
35°	1373.7	1384.6	1430.2	1461.2	1481.3
37.5°	1309.8	1322.6	1371.8	1406.5	1430.2
40°	1246.0	1260.6	1311.6	1351.8	1379.1
42.5°	1178.5	1194.9	1251.4	1298.9	1328.1
45°	1111.0	1129.2	1187.6	1244.1	1277.0
47.5°	1043.5	1065.4	1127.4	1189.4	1224.1
50°	974.1	996.0	1061.7	1132.9	1167.5
52.5°	904.8	930.4	1003.3	1076.3	1111.0
55°	837.3	862.9	941.3	1017.9	1052.6
57.5°	768.0	793.5	879.3	959.6	994.2
60°	696.9	726.0	815.4	897.5	935.8
62.5°	627.5	658.6	753.4	841.0	877.5
65°	558.2	591.1	689.6	780.8	817.3
67.5°	487.1	525.4	627.5	720.6	758.9
70°	417.8	459.7	567.3	660.4	696.9
72.5°	350.3	395.9	507.1	602.0	623.9
75°	282.8	335.7	448.8	501.7	501.7
77.5°	218.9	277.3	383.1	403.2	414.1
80°	158.7	222.6	288.2	311.9	308.3
82.5°	105.8	169.7	206.1	206.1	200.7
85°	60.2	102.2	111.3	107.6	105.8
87.5°	25.5	38.3	34.7	27.4	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)