

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: P260746

Luminaire Tested: **24CZ-LD5-50-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260746
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-L82765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5254.0 lumens
Efficiency: N/A
Efficacy: 140.9 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

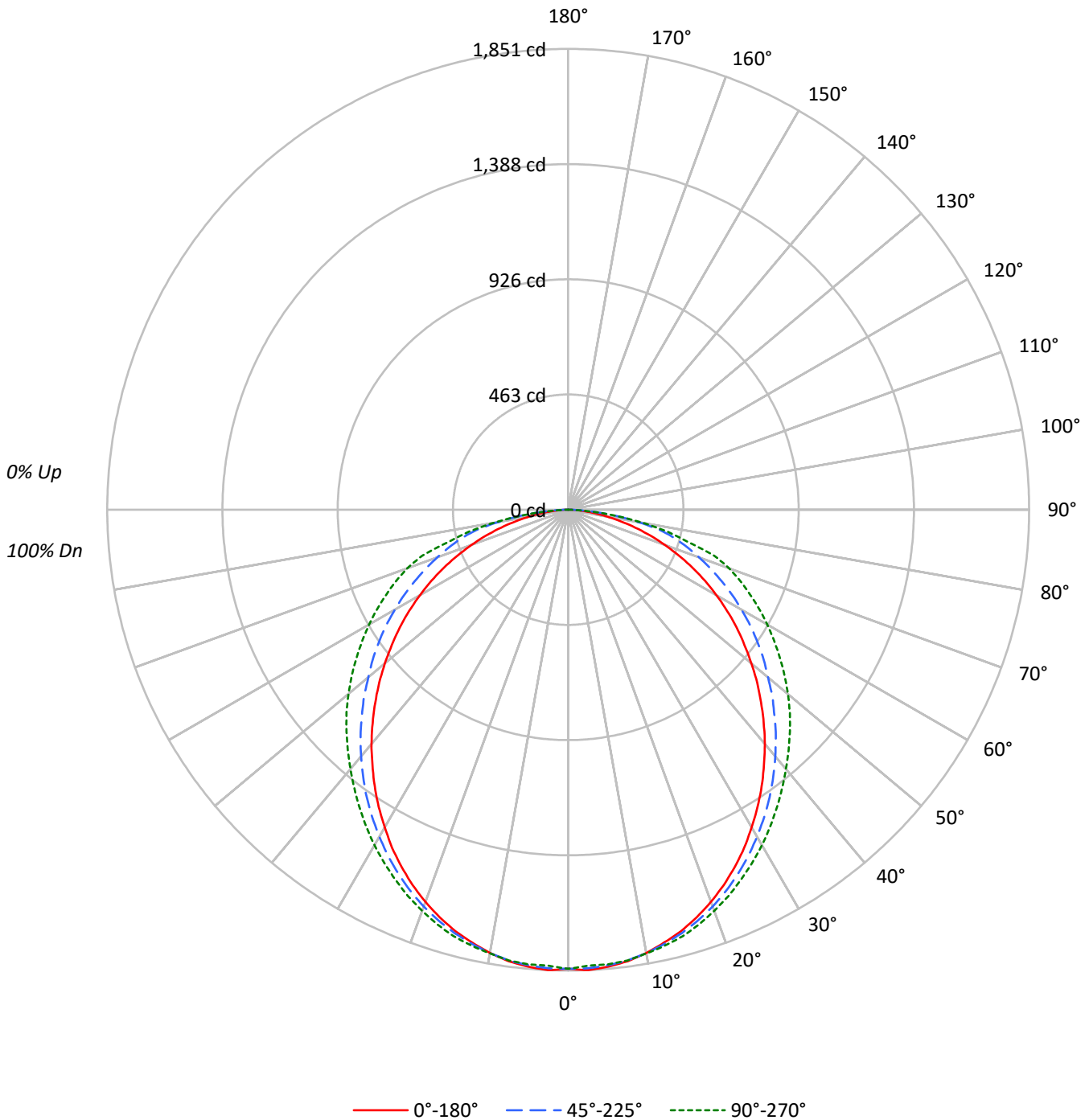
Input Watts (W): 37.293
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2481	2481	2481
5°	2488	2481	2476
10°	2470	2470	2472
15°	2441	2453	2471
20°	2401	2429	2455
25°	2350	2396	2436
30°	2289	2356	2418
35°	2225	2316	2399
40°	2158	2272	2389
45°	2085	2228	2396
50°	2011	2192	2410
55°	1937	2177	2435
60°	1849	2164	2483
65°	1753	2165	2566
70°	1620	2201	2703
75°	1449	2300	2572
80°	1213	2202	2356
85°	917	1694	1610



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.2	3.3
10°-20°	495.9	9.4
20°-30°	741.4	14.1
30°-40°	879.5	16.7
40°-50°	905.2	17.2
50°-60°	830.4	15.8
60°-70°	671.4	12.8
70°-80°	435.8	8.3
80°-90°	120.2	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°	1411.5	26.9
0°-40°	2291.0	43.6
0°-60°	4026.6	76.6
0°-90°	5254.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5254.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1844	1844	1844	1844	1844	
5°	1842	1830	1837	1835	1833	175
15°	1752	1745	1761	1768	1774	494
25°	1583	1585	1614	1628	1641	729
35°	1355	1365	1410	1441	1461	847
45°	1096	1114	1171	1227	1259	845
55°	826	851	928	1004	1038	738
65°	550	583	680	770	806	544
75°	279	331	442	495	495	296
85°	59	101	110	106	104	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1843.9	1843.9	1843.9	1843.9	1843.9
2.5°	1851.1	1836.7	1843.9	1842.1	1833.1
5°	1842.1	1829.5	1836.7	1834.9	1833.1
7.5°	1829.5	1816.9	1825.9	1824.1	1825.9
10°	1807.9	1797.1	1807.9	1809.7	1809.7
12.5°	1780.9	1771.9	1786.3	1789.9	1793.5
15°	1752.1	1744.9	1761.1	1768.3	1773.7
17.5°	1716.2	1710.8	1730.5	1739.5	1746.7
20°	1676.6	1674.8	1696.4	1705.4	1714.4
22.5°	1631.6	1631.6	1656.8	1667.6	1680.2
25°	1583.0	1584.8	1613.6	1628.0	1640.6
27.5°	1530.9	1532.7	1566.8	1584.8	1599.2
30°	1473.3	1480.5	1516.5	1539.9	1556.1
32.5°	1415.7	1424.7	1464.3	1491.3	1509.3
35°	1354.6	1365.4	1410.3	1440.9	1460.7
37.5°	1291.6	1304.2	1352.8	1387.0	1410.3
40°	1228.7	1243.0	1293.4	1333.0	1360.0
42.5°	1162.1	1178.3	1234.1	1280.8	1309.6
45°	1095.5	1113.5	1171.1	1226.9	1259.2
47.5°	1029.0	1050.6	1111.7	1172.9	1207.1
50°	960.6	982.2	1047.0	1117.1	1151.3
52.5°	892.3	917.4	989.4	1061.4	1095.5
55°	825.7	850.9	928.2	1003.8	1038.0
57.5°	757.3	782.5	867.1	946.2	980.4
60°	687.2	716.0	804.1	885.1	922.8
62.5°	618.8	649.4	742.9	829.3	865.3
65°	550.5	582.8	680.0	769.9	805.9
67.5°	480.3	518.1	618.8	710.6	748.3
70°	411.9	453.3	559.5	651.2	687.2
72.5°	345.4	390.4	500.1	593.6	615.2
75°	278.8	331.0	442.5	494.7	494.7
77.5°	215.9	273.4	377.8	397.6	408.4
80°	156.5	219.5	284.2	307.6	304.0
82.5°	104.3	167.3	203.3	203.3	197.9
85°	59.4	100.7	109.7	106.1	104.3
87.5°	25.2	37.8	34.2	27.0	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)