

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: P261251

Luminaire Tested: **24CZ-LD5-50SE-S-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261251
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-LD5-50SE-S-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5093.0 lumens
Efficiency: N/A
Efficacy: 126.8 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

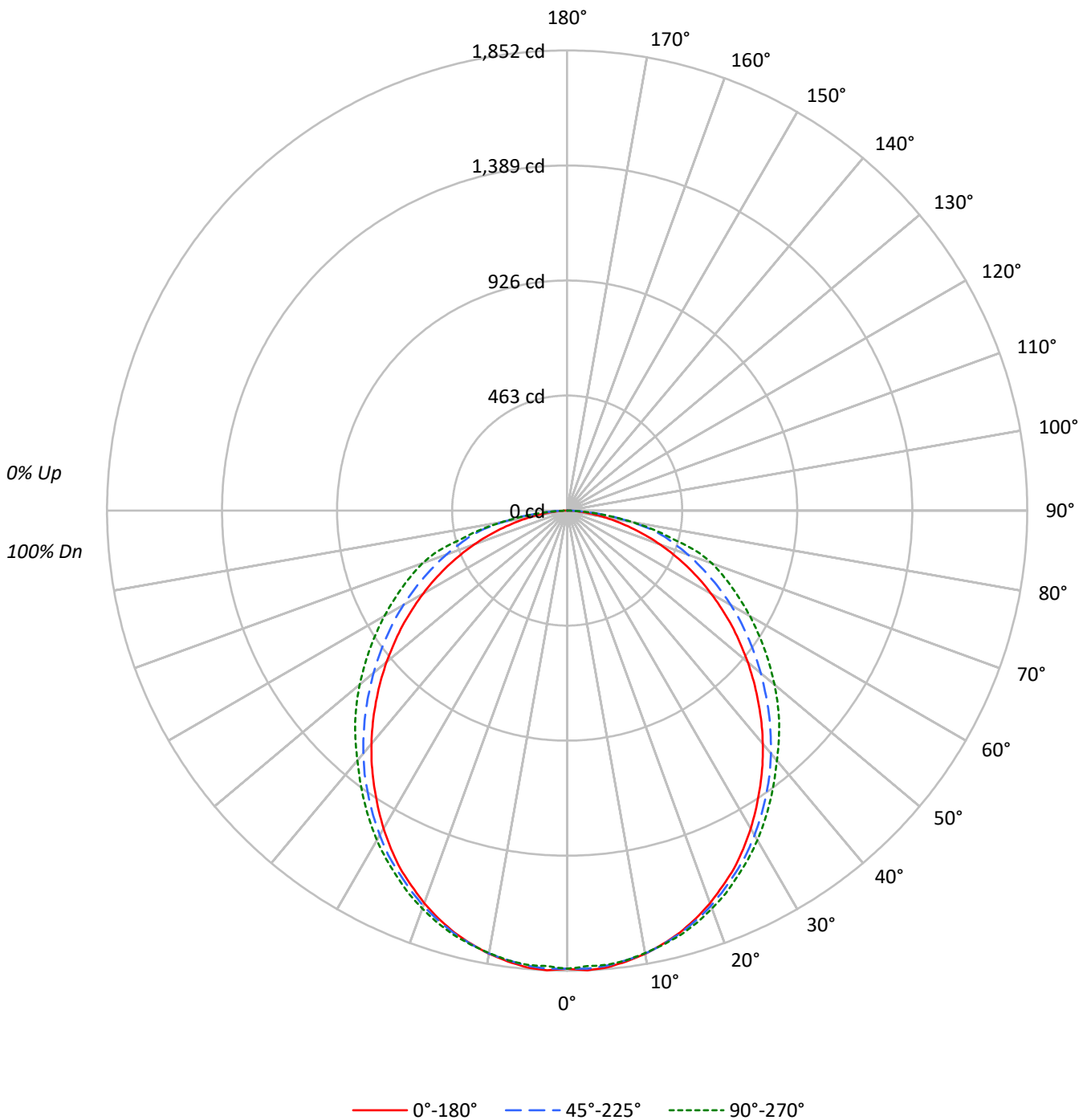
Input Watts (W): 40.176
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2481	2481	2481
5°	2493	2483	2479
10°	2475	2473	2470
15°	2448	2453	2462
20°	2407	2424	2441
25°	2360	2385	2410
30°	2296	2343	2380
35°	2224	2294	2341
40°	2152	2241	2307
45°	2070	2183	2296
50°	1986	2128	2281
55°	1900	2083	2274
60°	1801	2048	2285
65°	1694	2023	2331
70°	1560	2033	2440
75°	1383	2105	2273
80°	1155	1996	2049
85°	863	1596	1465



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.3	3.4
10°-20°	495.8	9.7
20°-30°	738.8	14.5
30°-40°	869.7	17.1
40°-50°	883.8	17.4
50°-60°	794.6	15.6
60°-70°	627.8	12.3
70°-80°	398.3	7.8
80°-90°	109.9	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°	1408.9	27.7
0°-40°	2278.6	44.7
0°-60°	3957.1	77.7
0°-90°	5093.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5093.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1844	1844	1844	1844	1844	
5°	1846	1830	1839	1835	1835	175
15°	1757	1749	1761	1766	1768	495
25°	1590	1588	1606	1617	1624	731
35°	1354	1362	1396	1412	1425	847
45°	1088	1103	1147	1181	1207	839
55°	810	830	888	946	969	723
65°	532	559	636	705	732	527
75°	266	312	405	441	437	283
85°	56	97	103	95	95	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1843.8	1843.8	1843.8	1843.8	1843.8
2.5°	1852.2	1838.7	1845.5	1842.1	1835.3
5°	1845.5	1830.2	1838.7	1835.3	1835.3
7.5°	1830.2	1818.3	1825.1	1823.4	1825.1
10°	1811.6	1799.7	1809.9	1809.9	1808.2
12.5°	1786.1	1776.0	1787.8	1787.8	1789.5
15°	1757.3	1748.9	1760.7	1765.8	1767.5
17.5°	1721.7	1713.3	1728.5	1733.6	1738.7
20°	1681.1	1677.7	1692.9	1698.0	1704.8
22.5°	1635.3	1635.3	1650.6	1657.4	1667.5
25°	1589.6	1587.9	1606.5	1616.7	1623.5
27.5°	1535.3	1537.0	1560.8	1570.9	1579.4
30°	1477.7	1481.1	1508.2	1520.1	1531.9
32.5°	1416.7	1423.5	1454.0	1467.6	1479.4
35°	1354.0	1362.5	1396.4	1411.6	1425.2
37.5°	1291.3	1303.2	1338.8	1354.0	1369.3
40°	1225.2	1235.4	1276.1	1294.7	1313.3
42.5°	1157.4	1171.0	1211.7	1238.8	1260.8
45°	1088.0	1103.2	1147.3	1181.2	1206.6
47.5°	1018.5	1038.8	1081.2	1126.9	1149.0
50°	949.0	969.3	1016.8	1067.6	1089.6
52.5°	877.8	898.2	952.4	1004.9	1028.6
55°	810.0	830.4	888.0	945.6	969.3
57.5°	738.9	760.9	825.3	884.6	908.3
60°	669.4	691.4	760.9	823.6	849.0
62.5°	601.6	625.3	698.2	764.3	789.7
65°	532.1	559.2	635.5	705.0	732.1
67.5°	464.3	494.8	574.5	647.3	676.2
70°	396.5	432.1	516.9	591.4	620.2
72.5°	330.5	369.4	459.2	533.8	549.1
75°	266.1	311.8	405.0	440.6	437.2
77.5°	205.1	255.9	344.0	350.8	361.0
80°	149.1	205.1	257.6	271.1	264.4
82.5°	98.3	154.2	184.7	177.9	176.2
85°	55.9	96.6	103.4	94.9	94.9
87.5°	23.7	39.0	33.9	25.4	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)