

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: P260742

Luminaire Tested: **24CZ-LD5-50-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260742
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-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5106.0 lumens
Efficiency: N/A
Efficacy: 140.4 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

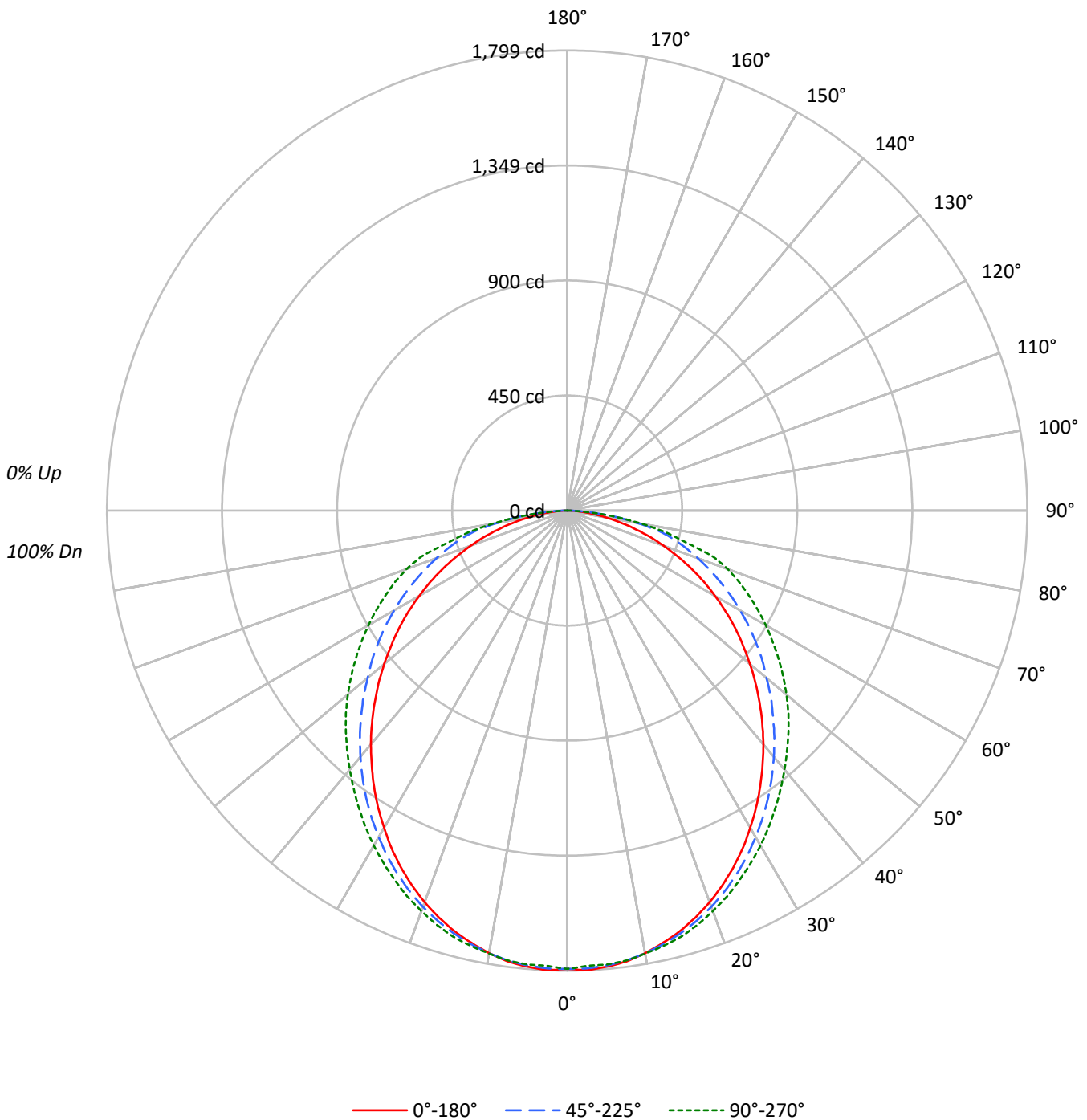
Input Watts (W): 36.363
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2411	2411	2411
5°	2418	2411	2406
10°	2400	2400	2403
15°	2372	2384	2401
20°	2333	2361	2386
25°	2284	2328	2367
30°	2224	2290	2349
35°	2162	2251	2332
40°	2097	2208	2321
45°	2026	2166	2329
50°	1954	2130	2342
55°	1882	2116	2366
60°	1797	2103	2413
65°	1703	2104	2493
70°	1575	2139	2627
75°	1409	2236	2499
80°	1179	2140	2290
85°	891	1646	1565



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.3	3.3
10°-20°	481.9	9.4
20°-30°	720.5	14.1
30°-40°	854.7	16.7
40°-50°	879.7	17.2
50°-60°	807.0	15.8
60°-70°	652.5	12.8
70°-80°	423.5	8.3
80°-90°	116.8	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°	1371.8	26.9
0°-40°	2226.5	43.6
0°-60°	3913.2	76.6
0°-90°	5106.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5106.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1792	1792	1792	1792	1792	
5°	1790	1778	1785	1783	1782	170
15°	1703	1696	1712	1718	1724	480
25°	1538	1540	1568	1582	1594	708
35°	1316	1327	1371	1400	1420	823
45°	1065	1082	1138	1192	1224	822
55°	802	827	902	976	1009	717
65°	535	566	661	748	783	529
75°	271	322	430	481	481	288
85°	58	98	107	103	101	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1791.9	1791.9	1791.9	1791.9	1791.9
2.5°	1798.9	1784.9	1791.9	1790.2	1781.5
5°	1790.2	1778.0	1784.9	1783.2	1781.5
7.5°	1778.0	1765.7	1774.5	1772.7	1774.5
10°	1757.0	1746.5	1757.0	1758.7	1758.7
12.5°	1730.8	1722.0	1736.0	1739.5	1743.0
15°	1702.8	1695.8	1711.5	1718.5	1723.8
17.5°	1667.8	1662.6	1681.8	1690.5	1697.5
20°	1629.4	1627.6	1648.6	1657.3	1666.1
22.5°	1585.6	1585.6	1610.1	1620.6	1632.9
25°	1538.4	1540.2	1568.2	1582.2	1594.4
27.5°	1487.7	1489.5	1522.7	1540.2	1554.2
30°	1431.8	1438.8	1473.8	1496.5	1512.2
32.5°	1375.9	1384.6	1423.1	1449.3	1466.8
35°	1316.4	1326.9	1370.6	1400.3	1419.6
37.5°	1255.2	1267.5	1314.7	1347.9	1370.6
40°	1194.0	1208.0	1257.0	1295.4	1321.7
42.5°	1129.4	1145.1	1199.3	1244.7	1272.7
45°	1064.7	1082.2	1138.1	1192.3	1223.8
47.5°	1000.0	1021.0	1080.4	1139.8	1173.1
50°	933.6	954.5	1017.5	1085.7	1118.9
52.5°	867.1	891.6	961.5	1031.5	1064.7
55°	802.4	826.9	902.1	975.5	1008.7
57.5°	736.0	760.5	842.6	919.6	952.8
60°	667.8	695.8	781.5	860.1	896.8
62.5°	601.4	631.1	722.0	805.9	840.9
65°	535.0	566.4	660.8	748.2	783.2
67.5°	466.8	503.5	601.4	690.6	727.3
70°	400.3	440.6	543.7	632.9	667.8
72.5°	335.7	379.4	486.0	576.9	597.9
75°	271.0	321.7	430.1	480.8	480.8
77.5°	209.8	265.7	367.1	386.4	396.8
80°	152.1	213.3	276.2	298.9	295.5
82.5°	101.4	162.6	197.6	197.6	192.3
85°	57.7	97.9	106.6	103.1	101.4
87.5°	24.5	36.7	33.2	26.2	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)