

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: P261158

Luminaire Tested: **24CZ-LD5-50-S-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261158
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-LD5-50-S-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4704.0 lumens
Efficiency: N/A
Efficacy: 131.7 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

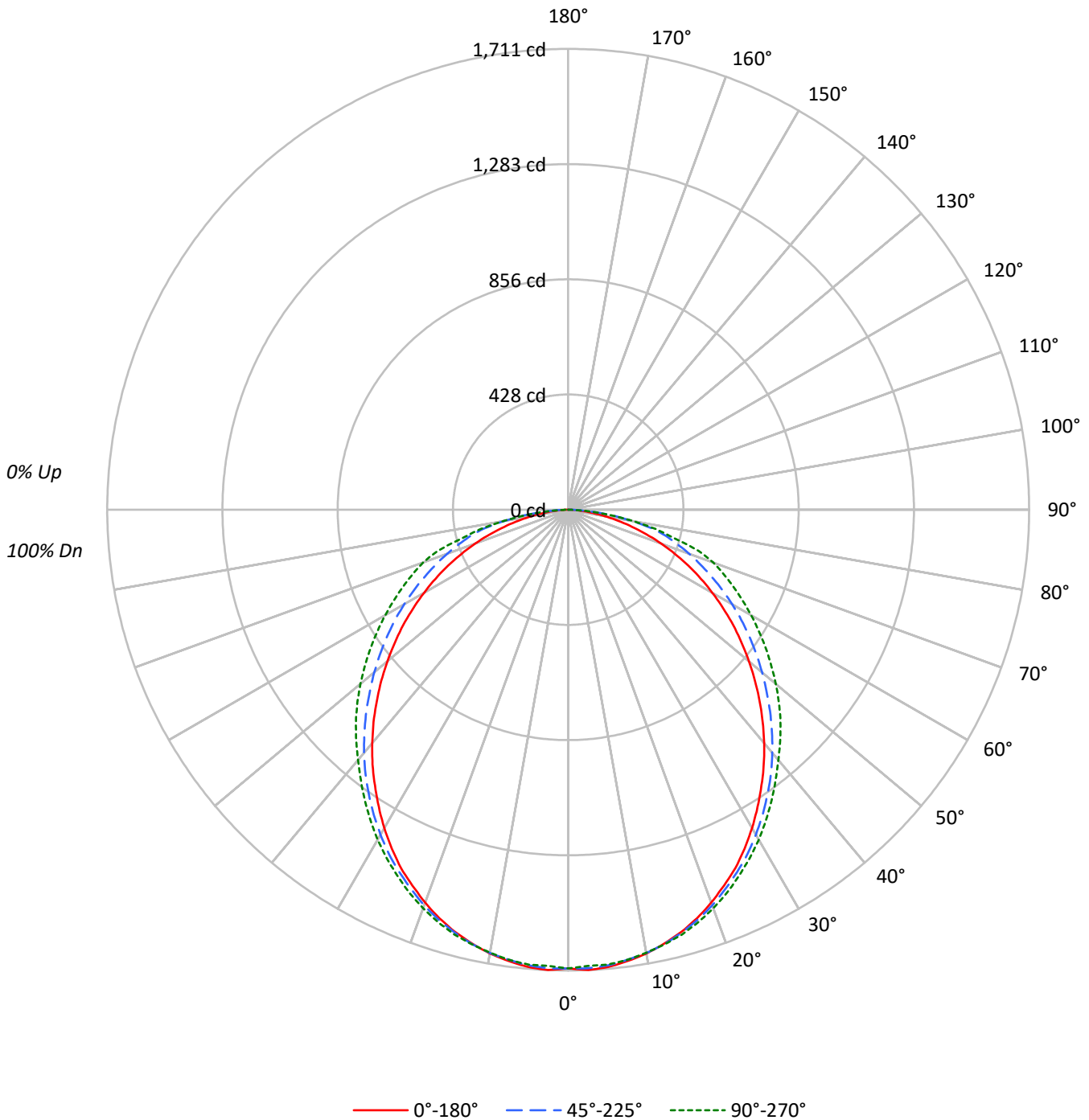
Input Watts (W): 35.712
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2291	2291	2291
5°	2302	2294	2289
10°	2286	2284	2282
15°	2261	2265	2274
20°	2223	2239	2255
25°	2180	2203	2226
30°	2121	2164	2198
35°	2054	2118	2162
40°	1988	2070	2131
45°	1912	2016	2120
50°	1835	1966	2107
55°	1755	1924	2100
60°	1664	1891	2110
65°	1565	1869	2153
70°	1441	1878	2254
75°	1277	1945	2099
80°	1067	1843	1892
85°	798	1474	1354



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.0	3.4
10°-20°	457.9	9.7
20°-30°	682.4	14.5
30°-40°	803.3	17.1
40°-50°	816.3	17.4
50°-60°	733.9	15.6
60°-70°	579.8	12.3
70°-80°	367.8	7.8
80°-90°	101.5	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°	1301.3	27.7
0°-40°	2104.6	44.7
0°-60°	3654.8	77.7
0°-90°	4704.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4704.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1703	1703	1703	1703	1703	
5°	1704	1690	1698	1695	1695	162
15°	1623	1615	1626	1631	1632	457
25°	1468	1467	1484	1493	1500	675
35°	1251	1258	1290	1304	1316	782
45°	1005	1019	1060	1091	1114	775
55°	748	767	820	873	895	668
65°	492	516	587	651	676	487
75°	246	288	374	407	404	262
85°	52	89	96	88	88	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1702.9	1702.9	1702.9	1702.9	1702.9
2.5°	1710.8	1698.2	1704.5	1701.4	1695.1
5°	1704.5	1690.4	1698.2	1695.1	1695.1
7.5°	1690.4	1679.5	1685.7	1684.2	1685.7
10°	1673.2	1662.2	1671.6	1671.6	1670.1
12.5°	1649.7	1640.3	1651.3	1651.3	1652.8
15°	1623.1	1615.3	1626.2	1630.9	1632.5
17.5°	1590.2	1582.4	1596.5	1601.2	1605.9
20°	1552.7	1549.5	1563.6	1568.3	1574.6
22.5°	1510.4	1510.4	1524.5	1530.8	1540.2
25°	1468.2	1466.6	1483.8	1493.2	1499.5
27.5°	1418.1	1419.6	1441.5	1450.9	1458.8
30°	1364.9	1368.0	1393.0	1404.0	1414.9
32.5°	1308.5	1314.8	1342.9	1355.5	1366.4
35°	1250.6	1258.4	1289.7	1303.8	1316.3
37.5°	1192.7	1203.6	1236.5	1250.6	1264.7
40°	1131.6	1141.0	1178.6	1195.8	1213.0
42.5°	1069.0	1081.6	1119.1	1144.2	1164.5
45°	1004.9	1018.9	1059.6	1090.9	1114.4
47.5°	940.7	959.5	998.6	1040.9	1061.2
50°	876.5	895.3	939.1	986.1	1006.4
52.5°	810.8	829.6	879.6	928.2	950.1
55°	748.2	766.9	820.2	873.4	895.3
57.5°	682.4	702.8	762.3	817.0	838.9
60°	618.3	638.6	702.8	760.7	784.2
62.5°	555.6	577.6	644.9	705.9	729.4
65°	491.5	516.5	586.9	651.1	676.2
67.5°	428.9	457.0	530.6	597.9	624.5
70°	366.3	399.1	477.4	546.3	572.9
72.5°	305.2	341.2	424.2	493.0	507.1
75°	245.7	288.0	374.1	407.0	403.8
77.5°	189.4	236.3	317.7	324.0	333.4
80°	137.7	189.4	237.9	250.4	244.2
82.5°	90.8	142.4	170.6	164.3	162.8
85°	51.7	89.2	95.5	87.7	87.7
87.5°	21.9	36.0	31.3	23.5	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)