

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: P261298

Luminaire Tested: **24CZ-LD5-50-S-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261298
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-L92765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4739.0 lumens
Efficiency: N/A
Efficacy: 129.7 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

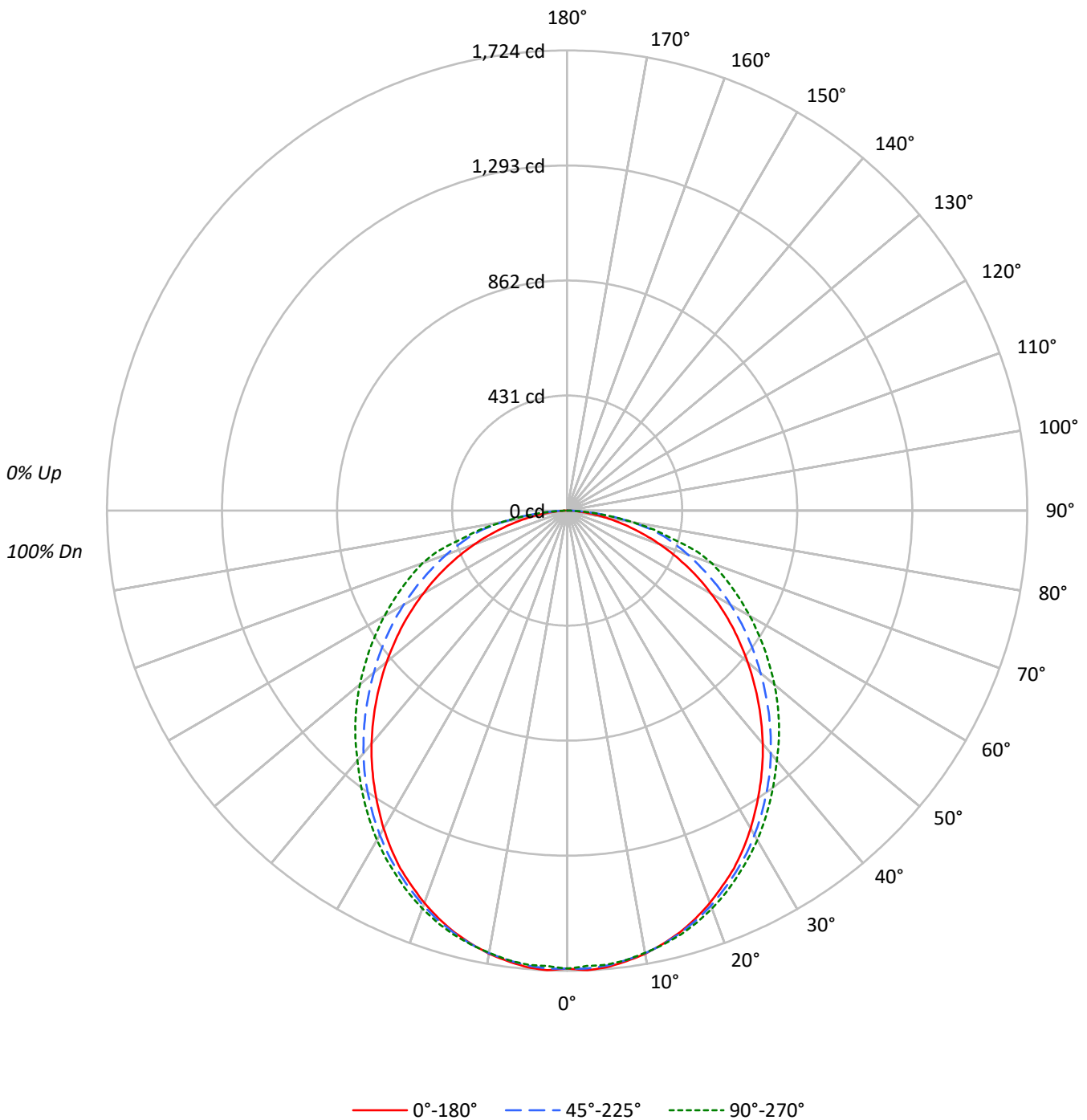
Input Watts (W): 36.549
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2308	2308	2308
5°	2319	2311	2306
10°	2303	2301	2299
15°	2278	2282	2291
20°	2240	2256	2271
25°	2196	2219	2243
30°	2136	2180	2215
35°	2069	2134	2178
40°	2002	2086	2147
45°	1926	2031	2136
50°	1848	1980	2122
55°	1768	1938	2116
60°	1676	1905	2126
65°	1576	1883	2169
70°	1452	1892	2270
75°	1287	1959	2115
80°	1075	1857	1906
85°	803	1485	1363



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.2	3.4
10°-20°	461.3	9.7
20°-30°	687.5	14.5
30°-40°	809.3	17.1
40°-50°	822.4	17.4
50°-60°	739.4	15.6
60°-70°	584.1	12.3
70°-80°	370.6	7.8
80°-90°	102.3	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°	1311.0	27.7
0°-40°	2120.2	44.7
0°-60°	3682.0	77.7
0°-90°	4739.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4739.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1716	1716	1716	1716	1716	
5°	1717	1703	1711	1708	1708	163
15°	1635	1627	1638	1643	1645	461
25°	1479	1478	1495	1504	1511	680
35°	1260	1268	1299	1314	1326	788
45°	1012	1026	1068	1099	1123	781
55°	754	773	826	880	902	673
65°	495	520	591	656	681	490
75°	248	290	377	410	407	264
85°	52	90	96	88	88	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1715.6	1715.6	1715.6	1715.6	1715.6
2.5°	1723.5	1710.9	1717.2	1714.0	1707.7
5°	1717.2	1703.0	1710.9	1707.7	1707.7
7.5°	1703.0	1692.0	1698.3	1696.7	1698.3
10°	1685.6	1674.6	1684.1	1684.1	1682.5
12.5°	1662.0	1652.5	1663.6	1663.6	1665.1
15°	1635.2	1627.3	1638.3	1643.1	1644.6
17.5°	1602.1	1594.2	1608.4	1613.1	1617.8
20°	1564.2	1561.1	1575.3	1580.0	1586.3
22.5°	1521.7	1521.7	1535.8	1542.2	1551.6
25°	1479.1	1477.5	1494.8	1504.3	1510.6
27.5°	1428.6	1430.2	1452.3	1461.7	1469.6
30°	1375.0	1378.2	1403.4	1414.4	1425.5
32.5°	1318.2	1324.5	1352.9	1365.5	1376.6
35°	1259.9	1267.8	1299.3	1313.5	1326.1
37.5°	1201.6	1212.6	1245.7	1259.9	1274.1
40°	1140.1	1149.5	1187.4	1204.7	1222.1
42.5°	1077.0	1089.6	1127.4	1152.7	1173.2
45°	1012.3	1026.5	1067.5	1099.1	1122.7
47.5°	947.7	966.6	1006.0	1048.6	1069.1
50°	883.0	902.0	946.1	993.4	1013.9
52.5°	816.8	835.7	886.2	935.1	957.1
55°	753.7	772.7	826.3	879.9	902.0
57.5°	687.5	708.0	767.9	823.1	845.2
60°	622.9	643.4	708.0	766.3	790.0
62.5°	559.8	581.9	649.7	711.2	734.8
65°	495.1	520.4	591.3	656.0	681.2
67.5°	432.1	460.4	534.5	602.4	629.2
70°	369.0	402.1	480.9	550.3	577.1
72.5°	307.5	343.8	427.3	496.7	510.9
75°	247.6	290.1	376.9	410.0	406.8
77.5°	190.8	238.1	320.1	326.4	335.9
80°	138.8	190.8	239.7	252.3	246.0
82.5°	91.5	143.5	171.9	165.6	164.0
85°	52.0	89.9	96.2	88.3	88.3
87.5°	22.1	36.3	31.5	23.7	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)