

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: P261311

Luminaire Tested: **24CZ-LD5-60-S-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261311
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-LD5-60-S-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4822.0 lumens
Efficiency: N/A
Efficacy: 109.2 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

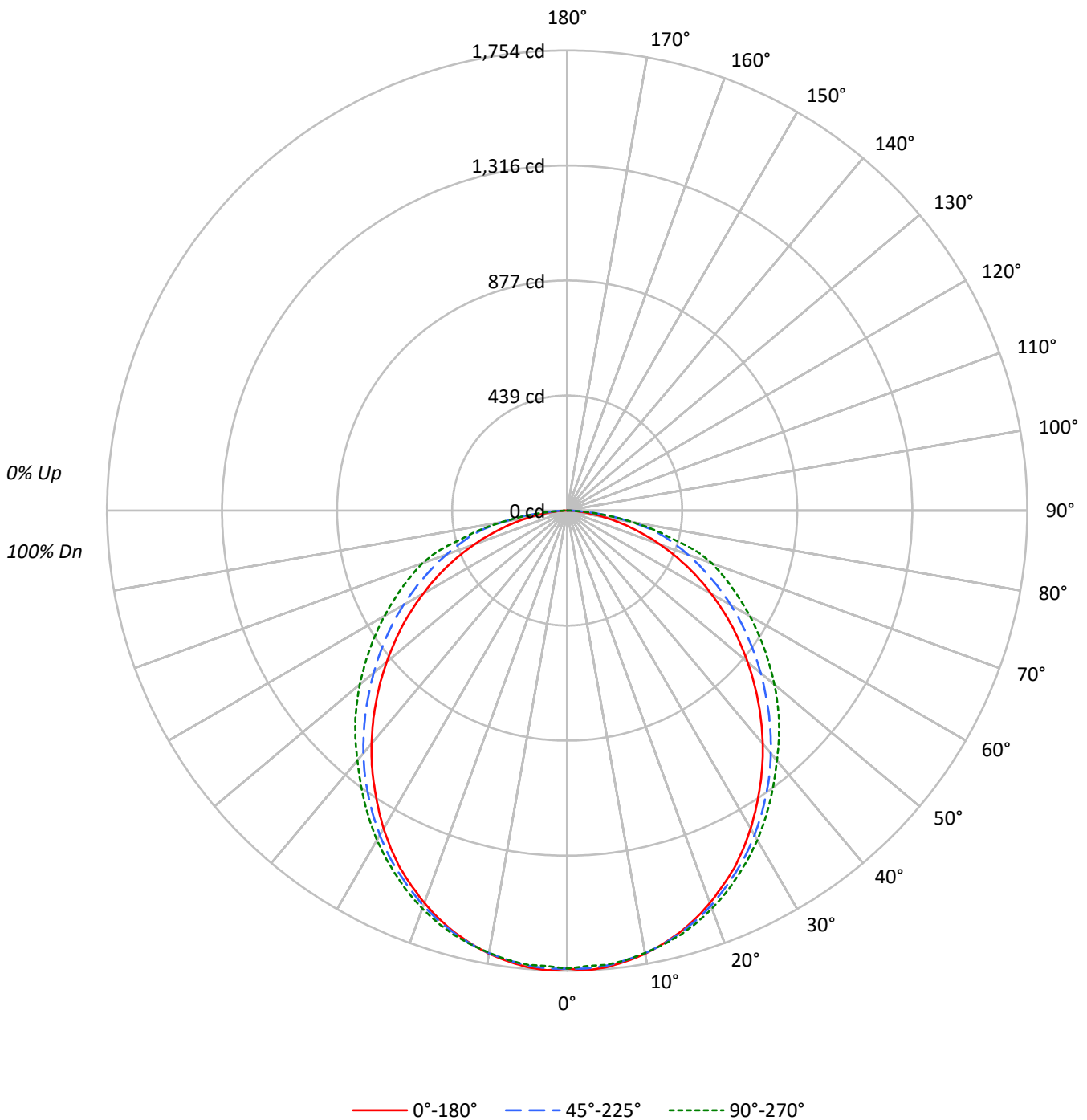
Input Watts (W): 44.175
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2349	2349	2349
5°	2360	2351	2347
10°	2343	2341	2339
15°	2318	2322	2331
20°	2279	2295	2311
25°	2234	2258	2282
30°	2174	2219	2253
35°	2106	2172	2216
40°	2037	2122	2184
45°	1960	2067	2174
50°	1881	2015	2160
55°	1799	1972	2153
60°	1706	1939	2163
65°	1604	1916	2207
70°	1477	1925	2310
75°	1310	1994	2152
80°	1094	1890	1939
85°	817	1511	1386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.0	3.4
10°-20°	469.4	9.7
20°-30°	699.5	14.5
30°-40°	823.4	17.1
40°-50°	836.8	17.4
50°-60°	752.3	15.6
60°-70°	594.4	12.3
70°-80°	377.1	7.8
80°-90°	104.1	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°	1333.9	27.7
0°-40°	2157.4	44.7
0°-60°	3746.5	77.7
0°-90°	4822.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4822.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1746	1746	1746	1746	1746	
5°	1747	1733	1741	1738	1738	166
15°	1664	1656	1667	1672	1674	469
25°	1505	1503	1521	1531	1537	692
35°	1282	1290	1322	1336	1349	802
45°	1030	1044	1086	1118	1142	795
55°	767	786	841	895	918	685
65°	504	530	602	668	693	499
75°	252	295	384	417	414	268
85°	53	92	98	90	90	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1745.7	1745.7	1745.7	1745.7	1745.7
2.5°	1753.7	1740.8	1747.3	1744.0	1737.6
5°	1747.3	1732.8	1740.8	1737.6	1737.6
7.5°	1732.8	1721.6	1728.0	1726.4	1728.0
10°	1715.2	1703.9	1713.6	1713.6	1712.0
12.5°	1691.1	1681.5	1692.7	1692.7	1694.3
15°	1663.8	1655.8	1667.0	1671.8	1673.5
17.5°	1630.1	1622.1	1636.5	1641.4	1646.2
20°	1591.6	1588.4	1602.9	1607.7	1614.1
22.5°	1548.3	1548.3	1562.7	1569.2	1578.8
25°	1505.0	1503.4	1521.0	1530.7	1537.1
27.5°	1453.6	1455.2	1477.7	1487.3	1495.4
30°	1399.1	1402.3	1428.0	1439.2	1450.4
32.5°	1341.3	1347.7	1376.6	1389.5	1400.7
35°	1282.0	1290.0	1322.1	1336.5	1349.4
37.5°	1222.6	1233.8	1267.5	1282.0	1296.4
40°	1160.0	1169.7	1208.2	1225.8	1243.5
42.5°	1095.8	1108.7	1147.2	1172.9	1193.7
45°	1030.1	1044.5	1086.2	1118.3	1142.4
47.5°	964.3	983.5	1023.6	1067.0	1087.8
50°	898.5	917.8	962.7	1010.8	1031.7
52.5°	831.1	850.4	901.7	951.4	973.9
55°	766.9	786.2	840.7	895.3	917.8
57.5°	699.5	720.4	781.4	837.5	860.0
60°	633.8	654.6	720.4	779.8	803.8
62.5°	569.6	592.0	661.0	723.6	747.7
65°	503.8	529.5	601.7	667.5	693.1
67.5°	439.6	468.5	543.9	612.9	640.2
70°	375.4	409.1	489.4	560.0	587.2
72.5°	312.9	349.8	434.8	505.4	519.8
75°	251.9	295.2	383.5	417.2	414.0
77.5°	194.1	242.3	325.7	332.1	341.8
80°	141.2	194.1	243.9	256.7	250.3
82.5°	93.1	146.0	174.9	168.5	166.9
85°	52.9	91.5	97.9	89.8	89.8
87.5°	22.5	36.9	32.1	24.1	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)