

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: P261042

Luminaire Tested: **24CZ-LD5-50SE-S-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261042
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-L83050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4821.0 lumens
Efficiency: N/A
Efficacy: 121.6 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

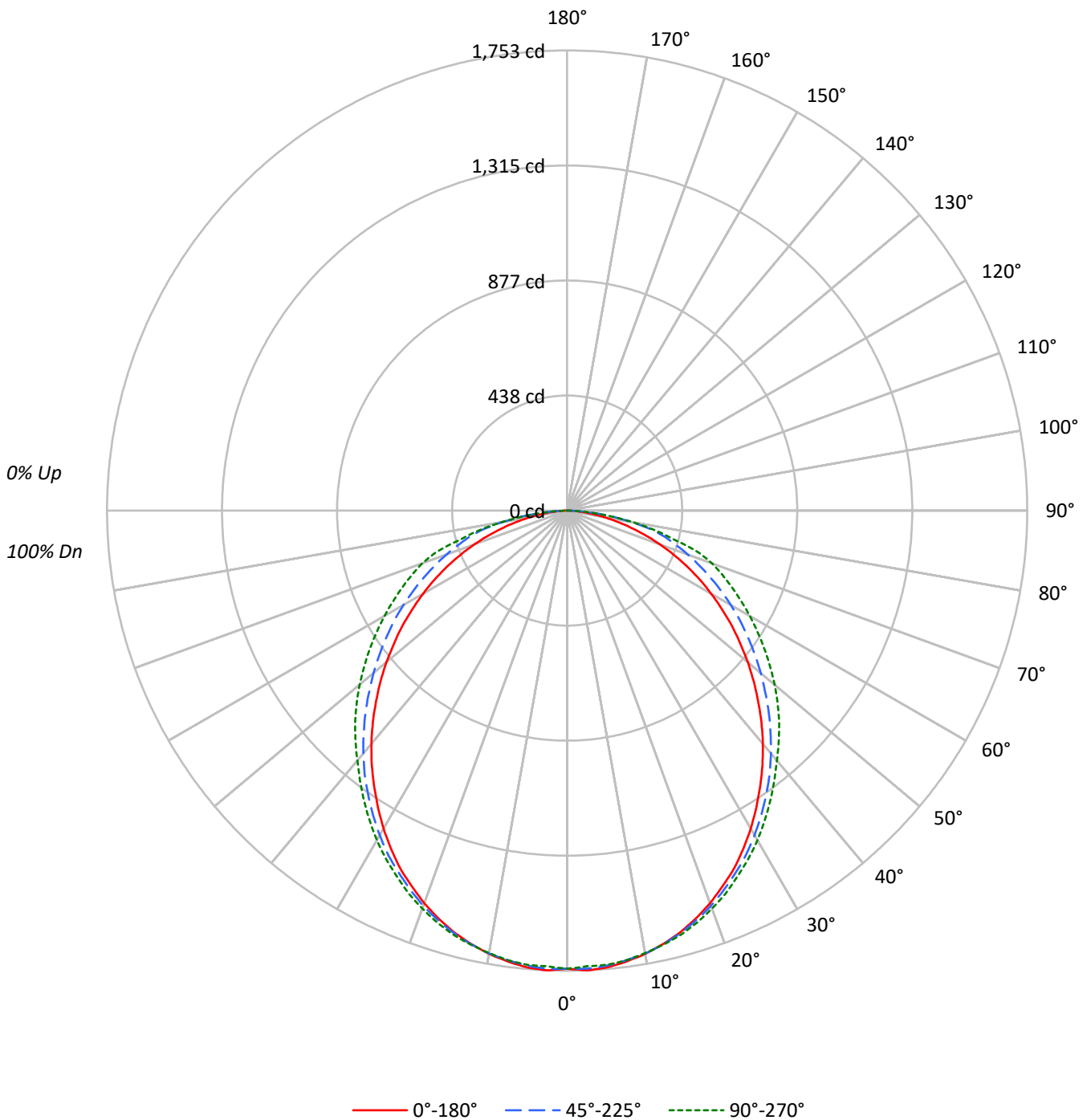
Input Watts (W): 39.631578
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2348	2348	2348
5°	2359	2351	2346
10°	2343	2341	2338
15°	2317	2322	2331
20°	2278	2295	2311
25°	2234	2258	2282
30°	2173	2218	2253
35°	2105	2171	2216
40°	2037	2122	2184
45°	1960	2066	2173
50°	1880	2015	2159
55°	1799	1972	2152
60°	1705	1938	2163
65°	1604	1915	2206
70°	1477	1925	2310
75°	1309	1993	2152
80°	1094	1889	1939
85°	817	1511	1386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.0	3.4
10°-20°	469.3	9.7
20°-30°	699.4	14.5
30°-40°	823.3	17.1
40°-50°	836.6	17.4
50°-60°	752.2	15.6
60°-70°	594.2	12.3
70°-80°	377.0	7.8
80°-90°	104.0	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°	1333.7	27.7
0°-40°	2156.9	44.7
0°-60°	3745.7	77.7
0°-90°	4821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4821.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1745	1745	1745	1745	1745	
5°	1747	1732	1740	1737	1737	166
15°	1664	1656	1667	1672	1673	469
25°	1505	1503	1521	1530	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	529	602	667	693	499
75°	252	295	383	417	414	268
85°	53	91	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°	1745.3	1745.3	1745.3	1745.3	1745.3
2.5°	1753.3	1740.5	1746.9	1743.7	1737.3
5°	1746.9	1732.5	1740.5	1737.3	1737.3
7.5°	1732.5	1721.2	1727.6	1726.0	1727.6
10°	1714.8	1703.6	1713.2	1713.2	1711.6
12.5°	1690.8	1681.1	1692.4	1692.4	1694.0
15°	1663.5	1655.5	1666.7	1671.5	1673.1
17.5°	1629.8	1621.8	1636.2	1641.0	1645.8
20°	1591.3	1588.1	1602.5	1607.3	1613.8
22.5°	1548.0	1548.0	1562.4	1568.8	1578.5
25°	1504.7	1503.1	1520.7	1530.3	1536.8
27.5°	1453.3	1454.9	1477.4	1487.0	1495.0
30°	1398.8	1402.0	1427.7	1438.9	1450.1
32.5°	1341.1	1347.5	1376.3	1389.2	1400.4
35°	1281.7	1289.7	1321.8	1336.2	1349.1
37.5°	1222.3	1233.6	1267.3	1281.7	1296.1
40°	1159.8	1169.4	1207.9	1225.6	1243.2
42.5°	1095.6	1108.5	1147.0	1172.6	1193.5
45°	1029.8	1044.3	1086.0	1118.1	1142.1
47.5°	964.1	983.3	1023.4	1066.7	1087.6
50°	898.3	917.6	962.5	1010.6	1031.5
52.5°	830.9	850.2	901.5	951.2	973.7
55°	766.8	786.0	840.6	895.1	917.6
57.5°	699.4	720.3	781.2	837.4	859.8
60°	633.6	654.5	720.3	779.6	803.7
62.5°	569.5	591.9	660.9	723.5	747.5
65°	503.7	529.4	601.5	667.3	693.0
67.5°	439.5	468.4	543.8	612.8	640.0
70°	375.4	409.1	489.3	559.8	587.1
72.5°	312.8	349.7	434.7	505.3	519.7
75°	251.8	295.2	383.4	417.1	413.9
77.5°	194.1	242.2	325.6	332.1	341.7
80°	141.2	194.1	243.8	256.7	250.2
82.5°	93.0	146.0	174.8	168.4	166.8
85°	52.9	91.4	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)