

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: P261301

Luminaire Tested: **24CZ-LD5-50-S-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261301
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-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4865.0 lumens
Efficiency: N/A
Efficacy: 130.1 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

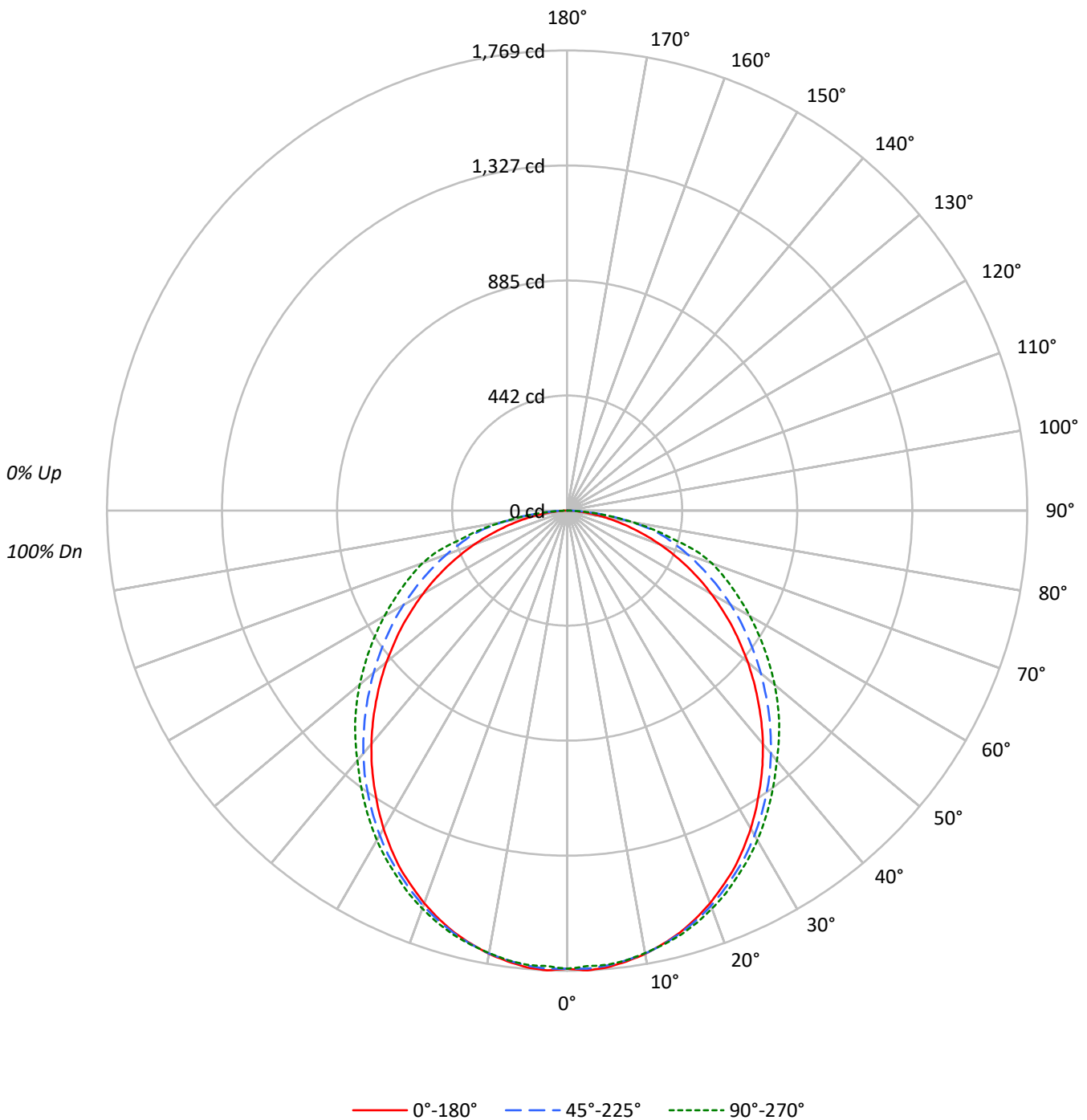
Input Watts (W): 37.386
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50					50			
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2370	2370	2370
5°	2381	2372	2368
10°	2364	2362	2360
15°	2338	2343	2352
20°	2299	2315	2332
25°	2254	2278	2302
30°	2193	2238	2274
35°	2124	2191	2236
40°	2056	2141	2203
45°	1977	2085	2193
50°	1897	2033	2179
55°	1815	1990	2172
60°	1721	1956	2182
65°	1618	1933	2226
70°	1490	1942	2331
75°	1321	2011	2171
80°	1104	1907	1956
85°	824	1524	1400



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.5	3.4
10°-20°	473.6	9.7
20°-30°	705.8	14.5
30°-40°	830.8	17.1
40°-50°	844.3	17.4
50°-60°	759.0	15.6
60°-70°	599.7	12.3
70°-80°	380.4	7.8
80°-90°	105.0	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°	1345.8	27.7
0°-40°	2176.6	44.7
0°-60°	3779.9	77.7
0°-90°	4865.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4865.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1761	1761	1761	1761	1761	
5°	1763	1748	1756	1753	1753	167
15°	1679	1671	1682	1687	1688	473
25°	1518	1517	1535	1544	1551	698
35°	1293	1302	1334	1348	1361	809
45°	1039	1054	1096	1128	1153	802
55°	774	793	848	903	926	691
65°	508	534	607	673	699	503
75°	254	298	387	421	418	271
85°	53	92	99	91	91	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1761.2	1761.2	1761.2	1761.2	1761.2
2.5°	1769.3	1756.4	1762.8	1759.6	1753.1
5°	1762.8	1748.3	1756.4	1753.1	1753.1
7.5°	1748.3	1736.9	1743.4	1741.8	1743.4
10°	1730.5	1719.1	1728.8	1728.8	1727.2
12.5°	1706.2	1696.5	1707.8	1707.8	1709.4
15°	1678.7	1670.6	1681.9	1686.8	1688.4
17.5°	1644.7	1636.6	1651.1	1656.0	1660.9
20°	1605.8	1602.6	1617.1	1622.0	1628.5
22.5°	1562.1	1562.1	1576.7	1583.2	1592.9
25°	1518.4	1516.8	1534.6	1544.3	1550.8
27.5°	1466.6	1468.2	1490.9	1500.6	1508.7
30°	1411.6	1414.8	1440.7	1452.0	1463.4
32.5°	1353.3	1359.8	1388.9	1401.9	1413.2
35°	1293.4	1301.5	1333.9	1348.4	1361.4
37.5°	1233.5	1244.8	1278.8	1293.4	1308.0
40°	1170.4	1180.1	1218.9	1236.7	1254.5
42.5°	1105.6	1118.6	1157.4	1183.3	1204.4
45°	1039.2	1053.8	1095.9	1128.3	1152.6
47.5°	972.9	992.3	1032.8	1076.5	1097.5
50°	906.5	925.9	971.3	1019.8	1040.9
52.5°	838.5	857.9	909.7	959.9	982.6
55°	773.8	793.2	848.2	903.3	925.9
57.5°	705.8	726.8	788.3	845.0	867.7
60°	639.4	660.5	726.8	786.7	811.0
62.5°	574.7	597.3	666.9	730.1	754.3
65°	508.3	534.2	607.0	673.4	699.3
67.5°	443.5	472.7	548.8	618.4	645.9
70°	378.8	412.8	493.7	565.0	592.5
72.5°	315.7	352.9	438.7	509.9	524.5
75°	254.1	297.9	386.9	420.9	417.6
77.5°	195.9	244.4	328.6	335.1	344.8
80°	142.5	195.9	246.1	259.0	252.5
82.5°	93.9	147.3	176.4	170.0	168.4
85°	53.4	92.3	98.7	90.7	90.7
87.5°	22.7	37.2	32.4	24.3	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)