

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: P261249

Luminaire Tested: **24CZ-LD5-50SE-S-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261249
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-L82765-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: 4816.0 lumens
Efficiency: N/A
Efficacy: 122.1 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

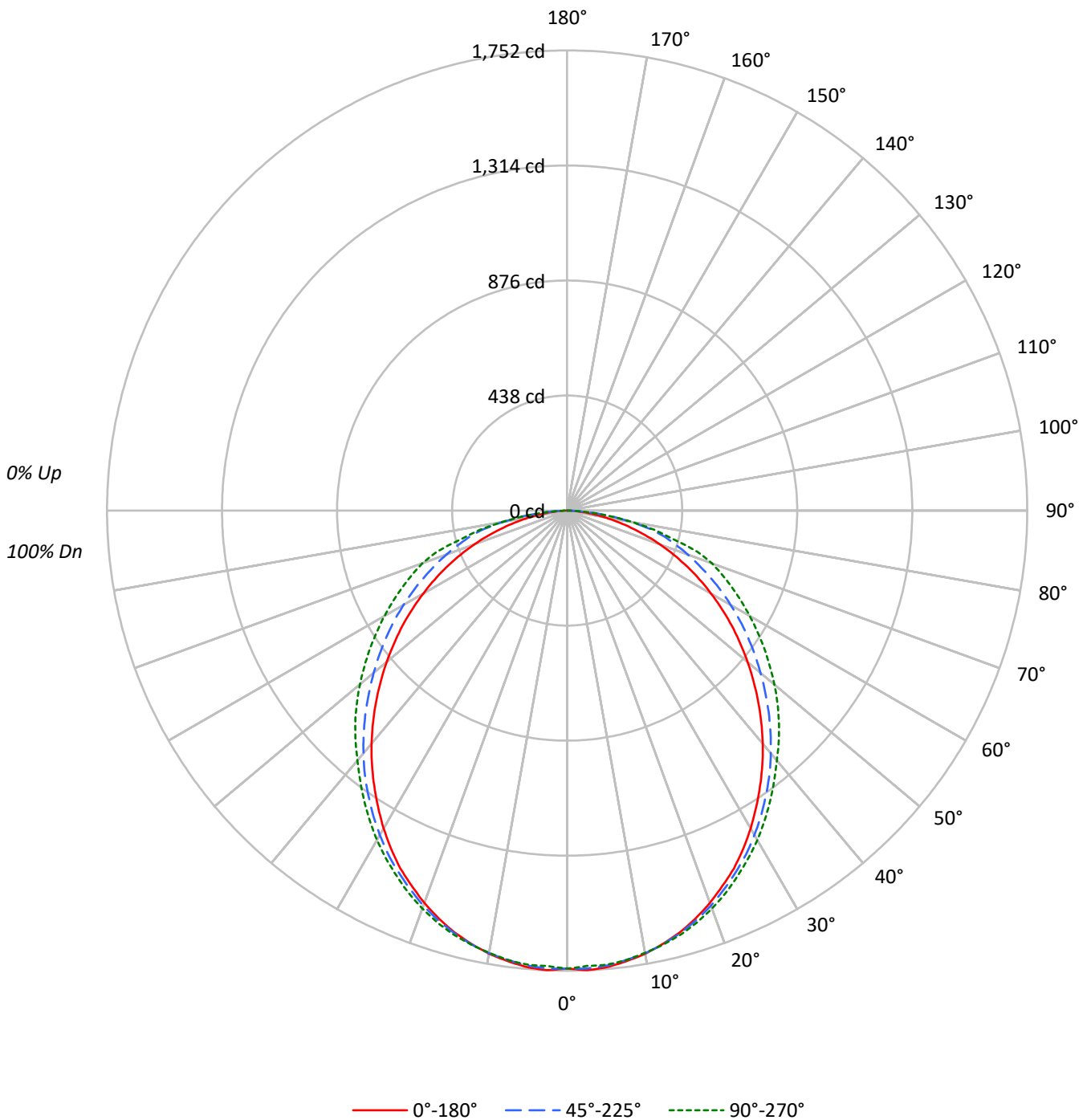
Input Watts (W): 39.432
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2346	2346	2346
5°	2357	2348	2344
10°	2340	2338	2336
15°	2315	2319	2328
20°	2276	2292	2308
25°	2231	2255	2279
30°	2171	2216	2251
35°	2103	2169	2214
40°	2035	2119	2181
45°	1958	2064	2171
50°	1878	2013	2157
55°	1797	1970	2150
60°	1703	1936	2160
65°	1602	1913	2204
70°	1475	1923	2307
75°	1308	1991	2149
80°	1093	1888	1937
85°	817	1510	1385



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.8	3.4
10°-20°	468.8	9.7
20°-30°	698.6	14.5
30°-40°	822.4	17.1
40°-50°	835.8	17.4
50°-60°	751.4	15.6
60°-70°	593.6	12.3
70°-80°	376.6	7.8
80°-90°	103.9	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°	1332.3	27.7
0°-40°	2154.7	44.7
0°-60°	3741.9	77.7
0°-90°	4816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4816.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1744	1744	1744	1744	1744	
5°	1745	1731	1739	1736	1736	165
15°	1662	1654	1665	1670	1671	468
25°	1503	1502	1519	1529	1535	691
35°	1280	1288	1320	1335	1348	801
45°	1029	1043	1085	1117	1141	794
55°	766	785	840	894	917	684
65°	503	529	601	667	692	498
75°	252	295	383	417	413	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°	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1751.5	1738.7	1745.1	1741.9	1735.5
5°	1745.1	1730.7	1738.7	1735.5	1735.5
7.5°	1730.7	1719.4	1725.9	1724.3	1725.9
10°	1713.0	1701.8	1711.4	1711.4	1709.8
12.5°	1689.0	1679.4	1690.6	1690.6	1692.2
15°	1661.8	1653.7	1665.0	1669.8	1671.4
17.5°	1628.1	1620.1	1634.5	1639.3	1644.1
20°	1589.6	1586.4	1600.9	1605.7	1612.1
22.5°	1546.4	1546.4	1560.8	1567.2	1576.8
25°	1503.1	1501.5	1519.1	1528.8	1535.2
27.5°	1451.8	1453.4	1475.9	1485.5	1493.5
30°	1397.3	1400.6	1426.2	1437.4	1448.6
32.5°	1339.7	1346.1	1374.9	1387.7	1399.0
35°	1280.4	1288.4	1320.4	1334.9	1347.7
37.5°	1221.1	1232.3	1265.9	1280.4	1294.8
40°	1158.6	1168.2	1206.7	1224.3	1241.9
42.5°	1094.5	1107.3	1145.8	1171.4	1192.2
45°	1028.8	1043.2	1084.9	1116.9	1141.0
47.5°	963.1	982.3	1022.4	1065.6	1086.5
50°	897.4	916.6	961.5	1009.6	1030.4
52.5°	830.1	849.3	900.6	950.3	972.7
55°	766.0	785.2	839.7	894.2	916.6
57.5°	698.7	719.5	780.4	836.5	858.9
60°	633.0	653.8	719.5	778.8	802.8
62.5°	568.9	591.3	660.2	722.7	746.7
65°	503.2	528.8	600.9	666.6	692.3
67.5°	439.1	467.9	543.2	612.1	639.4
70°	375.0	408.6	488.8	559.3	586.5
72.5°	312.5	349.3	434.3	504.8	519.2
75°	251.6	294.9	383.0	416.6	413.4
77.5°	193.9	242.0	325.3	331.7	341.3
80°	141.0	193.9	243.6	256.4	250.0
82.5°	92.9	145.8	174.7	168.3	166.7
85°	52.9	91.3	97.8	89.7	89.7
87.5°	22.4	36.9	32.0	24.0	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)