

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: P261384

Luminaire Tested: **24CZ-LD5-50SE-S-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261384
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-L92765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4158.0 lumens
Efficiency: N/A
Efficacy: 105.7 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

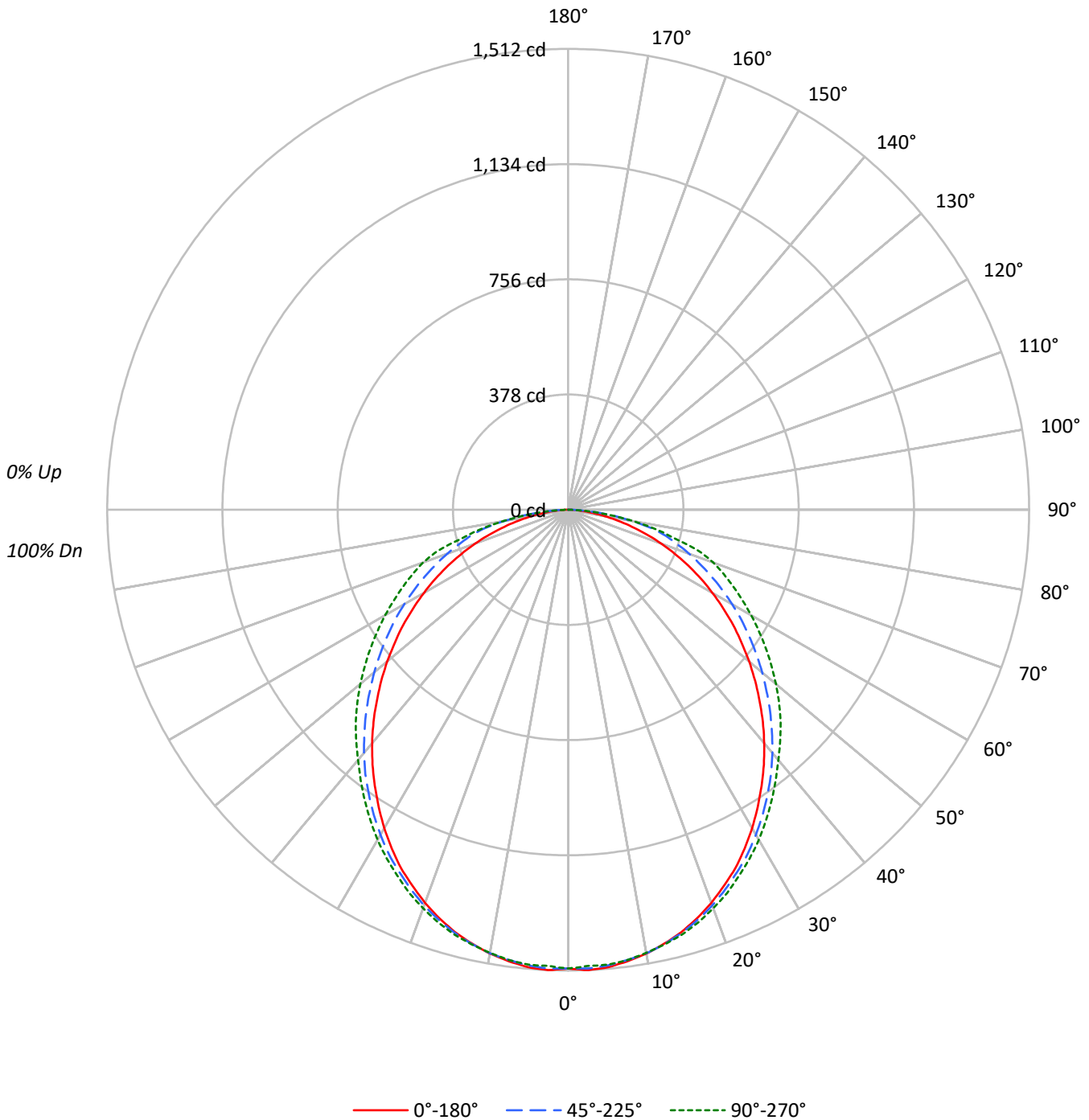
Input Watts (W): 39.339
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2025	2025	2025
5°	2035	2027	2024
10°	2021	2019	2017
15°	1998	2002	2010
20°	1965	1979	1993
25°	1927	1947	1968
30°	1874	1913	1943
35°	1816	1872	1911
40°	1757	1830	1883
45°	1690	1782	1874
50°	1622	1738	1862
55°	1551	1701	1856
60°	1471	1672	1865
65°	1383	1652	1903
70°	1273	1660	1992
75°	1129	1719	1855
80°	943	1629	1672
85°	706	1303	1196



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.3	3.4
10°-20°	404.7	9.7
20°-30°	603.2	14.5
30°-40°	710.0	17.1
40°-50°	721.6	17.4
50°-60°	648.7	15.6
60°-70°	512.5	12.3
70°-80°	325.1	7.8
80°-90°	89.7	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°	1150.3	27.7
0°-40°	1860.3	44.7
0°-60°	3230.6	77.7
0°-90°	4158.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4158.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1505	1505	1505	1505	1505	
5°	1507	1494	1501	1498	1498	143
15°	1435	1428	1438	1442	1443	404
25°	1298	1296	1312	1320	1325	597
35°	1105	1112	1140	1152	1164	692
45°	888	901	937	964	985	685
55°	661	678	725	772	791	591
65°	434	457	519	576	598	430
75°	217	255	331	360	357	231
85°	46	79	84	78	78	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1505.3	1505.3	1505.3	1505.3	1505.3
2.5°	1512.2	1501.1	1506.7	1503.9	1498.4
5°	1506.7	1494.2	1501.1	1498.4	1498.4
7.5°	1494.2	1484.5	1490.1	1488.7	1490.1
10°	1479.0	1469.3	1477.6	1477.6	1476.2
12.5°	1458.2	1449.9	1459.6	1459.6	1461.0
15°	1434.7	1427.8	1437.5	1441.6	1443.0
17.5°	1405.7	1398.7	1411.2	1415.3	1419.5
20°	1372.5	1369.7	1382.1	1386.3	1391.8
22.5°	1335.1	1335.1	1347.6	1353.1	1361.4
25°	1297.7	1296.4	1311.6	1319.9	1325.4
27.5°	1253.5	1254.9	1274.2	1282.5	1289.4
30°	1206.4	1209.2	1231.3	1241.0	1250.7
32.5°	1156.6	1162.2	1187.1	1198.1	1207.8
35°	1105.4	1112.4	1140.0	1152.5	1163.5
37.5°	1054.2	1063.9	1093.0	1105.4	1117.9
40°	1000.3	1008.6	1041.8	1057.0	1072.2
42.5°	944.9	956.0	989.2	1011.4	1029.3
45°	888.2	900.7	936.6	964.3	985.1
47.5°	831.5	848.1	882.7	920.0	938.0
50°	774.8	791.4	830.1	871.6	889.6
52.5°	716.7	733.3	777.5	820.4	839.8
55°	661.3	677.9	725.0	772.0	791.4
57.5°	603.2	621.2	673.8	722.2	741.6
60°	546.5	564.5	621.2	672.4	693.1
62.5°	491.2	510.5	570.0	624.0	644.7
65°	434.4	456.6	518.8	575.5	597.7
67.5°	379.1	404.0	469.0	528.5	552.0
70°	323.7	352.8	422.0	482.8	506.4
72.5°	269.8	301.6	374.9	435.8	448.3
75°	217.2	254.6	330.7	359.7	356.9
77.5°	167.4	208.9	280.9	286.4	294.7
80°	121.7	167.4	210.3	221.4	215.8
82.5°	80.2	125.9	150.8	145.3	143.9
85°	45.7	78.9	84.4	77.5	77.5
87.5°	19.4	31.8	27.7	20.8	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)