

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: P261385

Luminaire Tested: **24CZ-LD5-50SE-S-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261385
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-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4366.0 lumens
Efficiency: N/A
Efficacy: 109.7 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

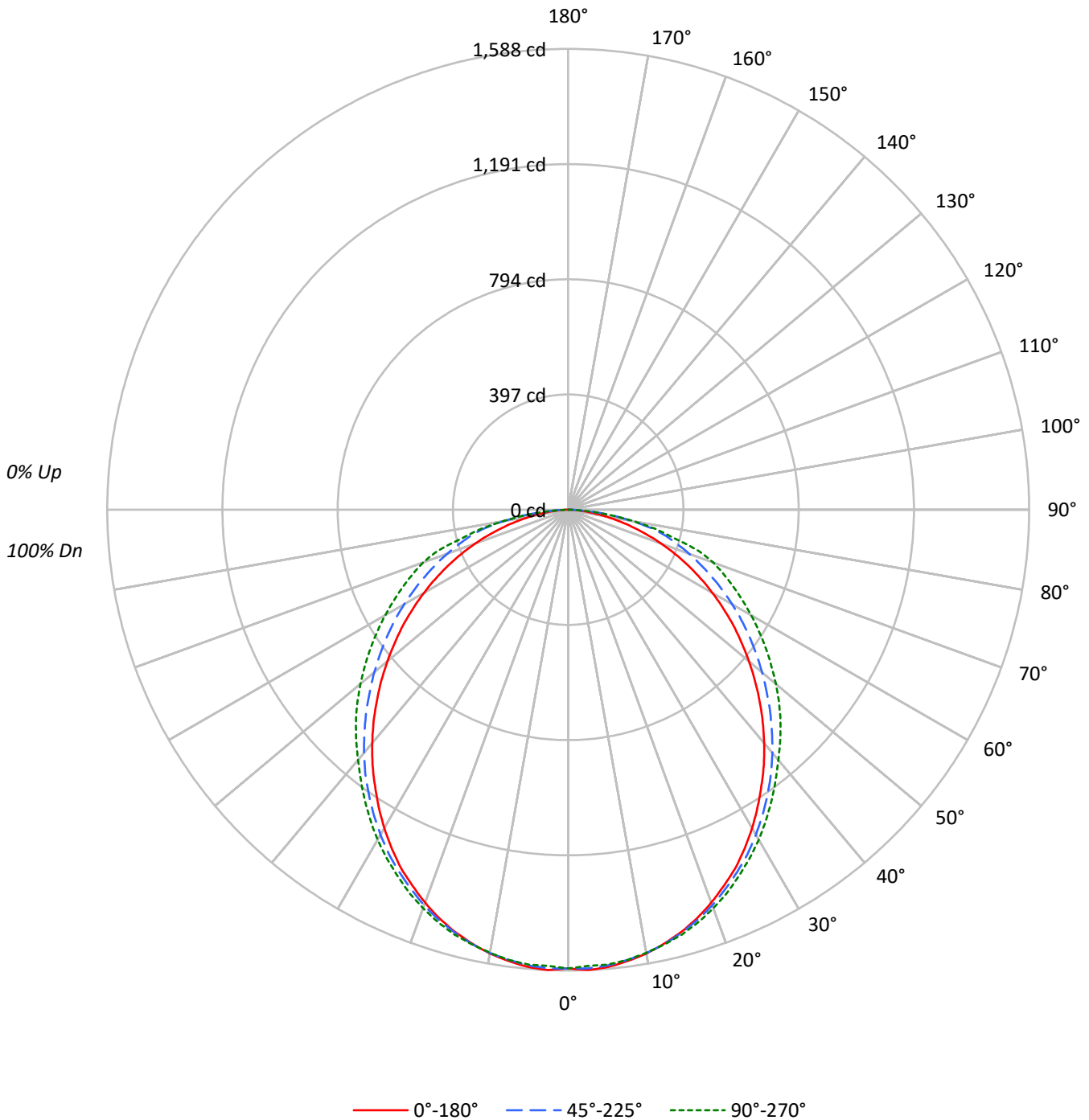
Input Watts (W): 39.804
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2127	2127	2127
5°	2137	2129	2125
10°	2122	2120	2118
15°	2098	2103	2111
20°	2063	2078	2092
25°	2023	2045	2066
30°	1968	2009	2040
35°	1906	1966	2007
40°	1845	1921	1978
45°	1775	1871	1968
50°	1703	1824	1955
55°	1629	1786	1949
60°	1544	1755	1958
65°	1452	1734	1998
70°	1337	1743	2092
75°	1186	1805	1948
80°	990	1711	1756
85°	739	1368	1257



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.4	3.4
10°-20°	425.0	9.7
20°-30°	633.4	14.5
30°-40°	745.6	17.1
40°-50°	757.7	17.4
50°-60°	681.2	15.6
60°-70°	538.1	12.3
70°-80°	341.4	7.8
80°-90°	94.2	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°	1207.8	27.7
0°-40°	1953.4	44.7
0°-60°	3392.2	77.7
0°-90°	4366.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4366.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1581	1581	1581	1581	1581	
5°	1582	1569	1576	1573	1573	150
15°	1506	1499	1509	1514	1515	424
25°	1363	1361	1377	1386	1392	627
35°	1161	1168	1197	1210	1222	726
45°	933	946	984	1013	1034	720
55°	694	712	761	811	831	620
65°	456	479	545	604	628	452
75°	228	267	347	378	375	243
85°	48	83	89	81	81	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1580.6	1580.6	1580.6	1580.6	1580.6
2.5°	1587.8	1576.2	1582.0	1579.1	1573.3
5°	1582.0	1569.0	1576.2	1573.3	1573.3
7.5°	1569.0	1558.8	1564.6	1563.1	1564.6
10°	1553.0	1542.8	1551.5	1551.5	1550.1
12.5°	1531.2	1522.5	1532.6	1532.6	1534.1
15°	1506.5	1499.2	1509.4	1513.7	1515.2
17.5°	1476.0	1468.7	1481.8	1486.1	1490.5
20°	1441.1	1438.2	1451.3	1455.6	1461.4
22.5°	1401.9	1401.9	1415.0	1420.8	1429.5
25°	1362.7	1361.2	1377.2	1385.9	1391.7
27.5°	1316.2	1317.6	1338.0	1346.7	1353.9
30°	1266.8	1269.7	1292.9	1303.1	1313.3
32.5°	1214.5	1220.3	1246.4	1258.1	1268.2
35°	1160.7	1168.0	1197.1	1210.1	1221.7
37.5°	1107.0	1117.2	1147.7	1160.7	1173.8
40°	1050.3	1059.0	1093.9	1109.9	1125.9
42.5°	992.2	1003.8	1038.7	1061.9	1080.8
45°	932.7	945.7	983.5	1012.6	1034.3
47.5°	873.1	890.5	926.8	966.1	985.0
50°	813.5	831.0	871.6	915.2	934.1
52.5°	752.5	769.9	816.4	861.5	881.8
55°	694.4	711.8	761.2	810.6	831.0
57.5°	633.4	652.3	707.5	758.3	778.7
60°	573.8	592.7	652.3	706.0	727.8
62.5°	515.7	536.1	598.5	655.2	677.0
65°	456.2	479.4	544.8	604.3	627.6
67.5°	398.0	424.2	492.5	554.9	579.6
70°	339.9	370.4	443.1	507.0	531.7
72.5°	283.3	316.7	393.7	457.6	470.7
75°	228.1	267.3	347.2	377.7	374.8
77.5°	175.8	219.4	294.9	300.7	309.4
80°	127.8	175.8	220.8	232.4	226.6
82.5°	84.3	132.2	158.3	152.5	151.1
85°	47.9	82.8	88.6	81.4	81.4
87.5°	20.3	33.4	29.1	21.8	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)