

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: P261146

Luminaire Tested: **24CZ-LD5-40-S-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261146
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-LD5-40-S-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4320.0 lumens
Efficiency: N/A
Efficacy: 148.4 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

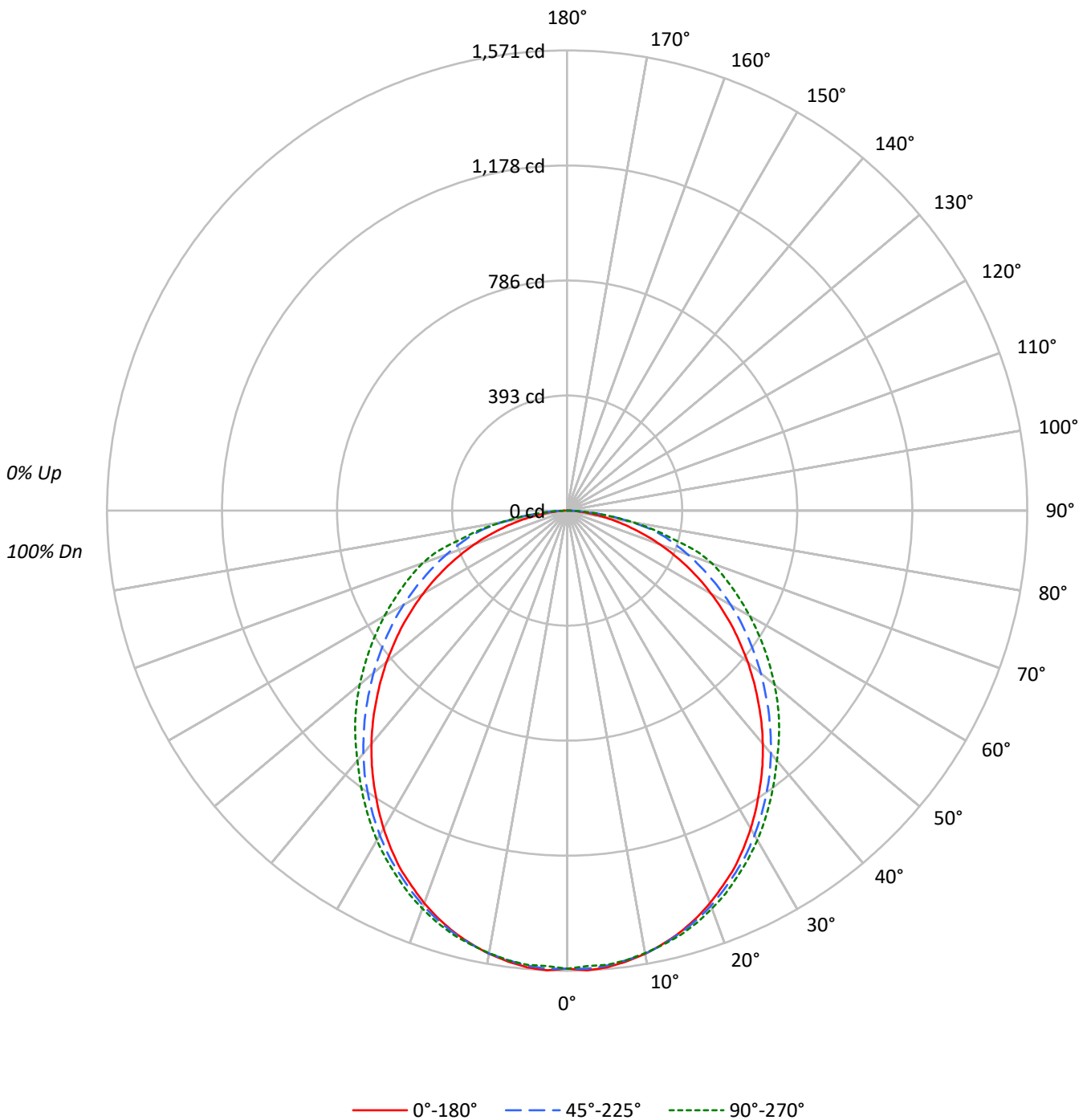
Input Watts (W): 29.109
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2104	2104	2104
5°	2114	2106	2103
10°	2099	2097	2095
15°	2076	2080	2088
20°	2042	2056	2071
25°	2002	2023	2044
30°	1947	1988	2019
35°	1886	1945	1986
40°	1825	1901	1957
45°	1756	1852	1947
50°	1685	1805	1935
55°	1612	1767	1929
60°	1528	1737	1938
65°	1437	1716	1977
70°	1323	1725	2070
75°	1173	1786	1928
80°	980	1693	1737
85°	732	1354	1243



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.9	3.4
10°-20°	420.5	9.7
20°-30°	626.7	14.5
30°-40°	737.7	17.1
40°-50°	749.7	17.4
50°-60°	674.0	15.6
60°-70°	532.5	12.3
70°-80°	337.8	7.8
80°-90°	93.2	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°	1195.1	27.7
0°-40°	1932.8	44.7
0°-60°	3356.5	77.7
0°-90°	4320.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4320.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1564	1564	1564	1564	1564	
5°	1565	1552	1560	1557	1557	148
15°	1491	1483	1494	1498	1499	420
25°	1348	1347	1363	1371	1377	620
35°	1148	1156	1184	1197	1209	719
45°	923	936	973	1002	1023	712
55°	687	704	753	802	822	614
65°	451	474	539	598	621	447
75°	226	264	344	374	371	240
85°	47	82	88	80	80	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1563.9	1563.9	1563.9	1563.9	1563.9
2.5°	1571.1	1559.6	1565.4	1562.5	1556.7
5°	1565.4	1552.4	1559.6	1556.7	1556.7
7.5°	1552.4	1542.4	1548.1	1546.7	1548.1
10°	1536.6	1526.5	1535.2	1535.2	1533.7
12.5°	1515.0	1506.4	1516.5	1516.5	1517.9
15°	1490.6	1483.4	1493.5	1497.8	1499.2
17.5°	1460.4	1453.2	1466.2	1470.5	1474.8
20°	1425.9	1423.1	1436.0	1440.3	1446.1
22.5°	1387.1	1387.1	1400.1	1405.8	1414.4
25°	1348.3	1346.9	1362.7	1371.3	1377.1
27.5°	1302.3	1303.7	1323.9	1332.5	1339.7
30°	1253.4	1256.3	1279.3	1289.4	1299.4
32.5°	1201.7	1207.4	1233.3	1244.8	1254.9
35°	1148.5	1155.7	1184.4	1197.4	1208.9
37.5°	1095.3	1105.4	1135.6	1148.5	1161.4
40°	1039.3	1047.9	1082.4	1098.2	1114.0
42.5°	981.8	993.3	1027.8	1050.8	1069.4
45°	922.8	935.8	973.1	1001.9	1023.4
47.5°	863.9	881.1	917.1	955.9	974.6
50°	805.0	822.2	862.5	905.6	924.3
52.5°	744.6	761.8	807.8	852.4	872.5
55°	687.1	704.3	753.2	802.1	822.2
57.5°	626.7	645.4	700.0	750.3	770.5
60°	567.8	586.5	645.4	698.6	720.2
62.5°	510.3	530.4	592.2	648.3	669.8
65°	451.4	474.4	539.0	598.0	621.0
67.5°	393.9	419.7	487.3	549.1	573.5
70°	336.4	366.5	438.4	501.7	526.1
72.5°	280.3	313.4	389.5	452.8	465.7
75°	225.7	264.5	343.5	373.7	370.9
77.5°	173.9	217.1	291.8	297.5	306.2
80°	126.5	173.9	218.5	230.0	224.2
82.5°	83.4	130.8	156.7	150.9	149.5
85°	47.4	81.9	87.7	80.5	80.5
87.5°	20.1	33.1	28.7	21.6	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)