

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: P260966

Luminaire Tested: **24CZ-LD5-50SE-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-50SE-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4418.0 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

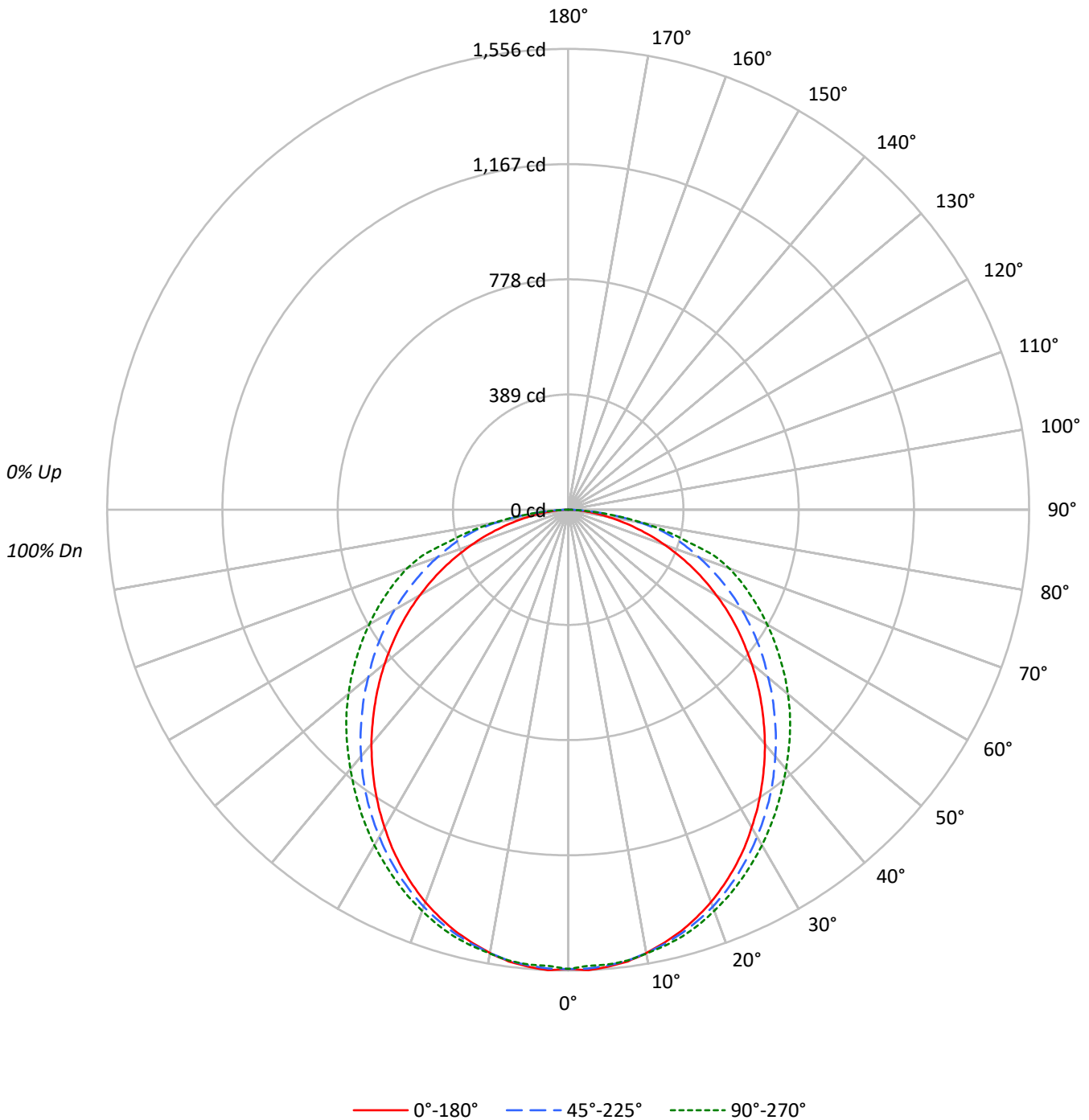
Input Watts (W): 40.176
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2086	2086	2086
5°	2092	2086	2082
10°	2077	2077	2079
15°	2052	2063	2078
20°	2019	2042	2064
25°	1976	2014	2048
30°	1925	1981	2033
35°	1871	1948	2018
40°	1815	1910	2009
45°	1753	1874	2015
50°	1691	1843	2026
55°	1629	1831	2047
60°	1555	1820	2088
65°	1474	1820	2158
70°	1363	1851	2273
75°	1219	1934	2163
80°	1020	1852	1980
85°	770	1425	1354



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.5	3.3
10°-20°	417.0	9.4
20°-30°	623.4	14.1
30°-40°	739.5	16.7
40°-50°	761.2	17.2
50°-60°	698.3	15.8
60°-70°	564.6	12.8
70°-80°	366.4	8.3
80°-90°	101.0	2.3
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°	1186.9	26.9
0°-40°	1926.5	43.6
0°-60°	3385.9	76.6
0°-90°	4418.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4418.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1550	1550	1550	1550	1550	
5°	1549	1538	1544	1543	1541	147
15°	1473	1467	1481	1487	1492	415
25°	1331	1333	1357	1369	1380	613
35°	1139	1148	1186	1212	1228	712
45°	921	936	985	1032	1059	711
55°	694	716	780	844	873	620
65°	463	490	572	647	678	457
75°	234	278	372	416	416	249
85°	50	85	92	89	88	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1550.5	1550.5	1550.5	1550.5	1550.5
2.5°	1556.5	1544.4	1550.5	1549.0	1541.4
5°	1549.0	1538.4	1544.4	1542.9	1541.4
7.5°	1538.4	1527.8	1535.4	1533.8	1535.4
10°	1520.2	1511.2	1520.2	1521.7	1521.7
12.5°	1497.5	1490.0	1502.1	1505.1	1508.1
15°	1473.3	1467.3	1480.9	1487.0	1491.5
17.5°	1443.1	1438.6	1455.2	1462.8	1468.8
20°	1409.8	1408.3	1426.4	1434.0	1441.6
22.5°	1372.0	1372.0	1393.2	1402.2	1412.8
25°	1331.2	1332.7	1356.9	1369.0	1379.6
27.5°	1287.3	1288.8	1317.5	1332.7	1344.8
30°	1238.9	1244.9	1275.2	1294.8	1308.5
32.5°	1190.5	1198.0	1231.3	1254.0	1269.1
35°	1139.0	1148.1	1185.9	1211.6	1228.3
37.5°	1086.1	1096.7	1137.5	1166.3	1185.9
40°	1033.2	1045.3	1087.6	1120.9	1143.6
42.5°	977.2	990.8	1037.7	1077.0	1101.2
45°	921.2	936.3	984.7	1031.6	1058.9
47.5°	865.2	883.4	934.8	986.3	1015.0
50°	807.8	825.9	880.4	939.4	968.1
52.5°	750.3	771.5	832.0	892.5	921.2
55°	694.3	715.5	780.5	844.1	872.8
57.5°	636.8	658.0	729.1	795.7	824.4
60°	577.8	602.0	676.2	744.2	776.0
62.5°	520.4	546.1	624.7	697.3	727.6
65°	462.9	490.1	571.8	647.4	677.7
67.5°	403.9	435.6	520.4	597.5	629.3
70°	346.4	381.2	470.4	547.6	577.8
72.5°	290.4	328.2	420.5	499.2	517.3
75°	234.5	278.3	372.1	416.0	416.0
77.5°	181.5	229.9	317.7	334.3	343.4
80°	131.6	184.5	239.0	258.7	255.6
82.5°	87.7	140.7	170.9	170.9	166.4
85°	49.9	84.7	92.3	89.2	87.7
87.5°	21.2	31.8	28.7	22.7	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)