

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: P#

Luminaire Tested: **24CZ-LD5-50SE-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25689)
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-L850-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5611.6 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

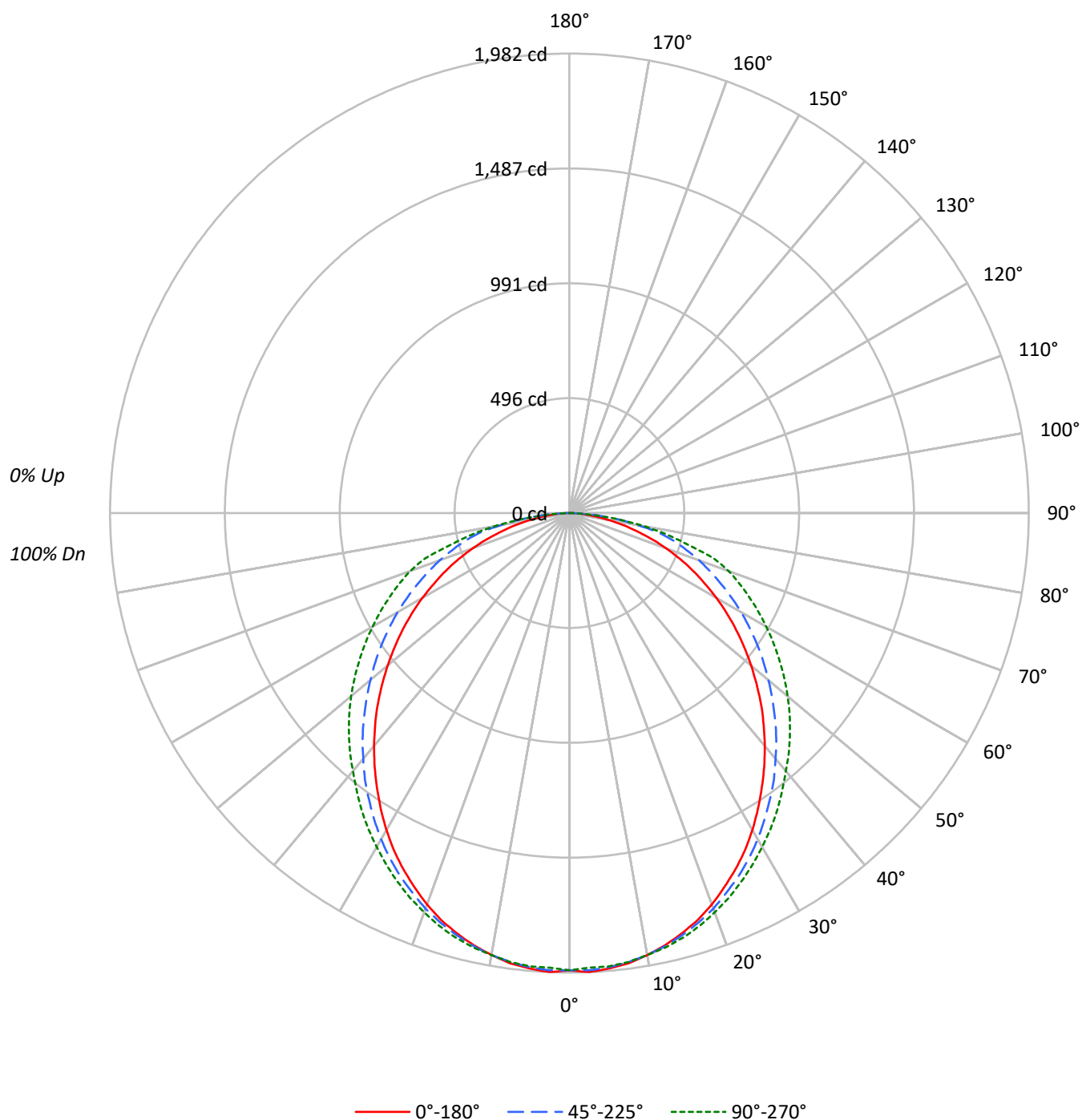
Input Watts (W): 46.56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	108	103	99	95	106	101	97	93	97	93	90		93	90	88		83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		68
3	89	79	70	63	87	77	69	63	74	67	62		71	65	61		57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		33
8	60	46	38	32	58	45	37	32	44	37	31		43	36	31		29
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		26
10	52	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2653	2653	2653
5°	2658	2643	2639
10°	2633	2620	2622
15°	2596	2588	2606
20°	2549	2550	2577
25°	2488	2503	2545
30°	2418	2449	2511
35°	2336	2388	2481
40°	2256	2327	2449
45°	2172	2266	2439
50°	2080	2206	2429
55°	1989	2156	2420
60°	1891	2108	2430
65°	1777	2063	2459
70°	1630	2039	2529
75°	1425	2030	2325
80°	1166	1785	1970
85°	802	1156	1125



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.5	3.3
10°-20°	530.8	9.5
20°-30°	793.4	14.1
30°-40°	940.8	16.8
40°-50°	967.5	17.2
50°-60°	885.0	15.8
60°-70°	713.8	12.7
70°-80°	463.4	8.3
80°-90°	130.4	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°	1510.7	26.9
0°-40°	2451.5	43.7
0°-60°	4304.0	76.7
0°-90°	5611.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5611.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1972	1972	1972	1972	1972	
5°	1972	1959	1966	1962	1962	187
15°	1876	1867	1884	1892	1896	529
25°	1695	1695	1728	1741	1754	780
35°	1447	1460	1508	1539	1564	905
45°	1170	1191	1254	1312	1346	902
55°	878	907	989	1067	1105	785
65°	588	622	722	815	855	581
75°	300	355	468	525	531	320
85°	67	111	120	118	114	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1972.0	1972.0	1972.0	1972.0	1972.0
2.5°	1981.5	1966.2	1973.9	1970.1	1962.4
5°	1972.0	1958.6	1966.2	1962.4	1962.4
7.5°	1958.6	1945.2	1952.9	1952.9	1952.9
10°	1935.7	1924.2	1935.7	1935.7	1935.7
12.5°	1909.0	1899.4	1912.8	1914.7	1918.5
15°	1876.5	1867.0	1884.2	1891.8	1895.6
17.5°	1840.3	1832.6	1851.7	1861.3	1867.0
20°	1796.3	1790.6	1815.4	1825.0	1832.6
22.5°	1746.7	1746.7	1771.5	1783.0	1796.3
25°	1695.2	1695.2	1727.6	1741.0	1754.3
27.5°	1639.8	1641.7	1678.0	1697.1	1710.4
30°	1578.7	1586.4	1624.5	1647.4	1662.7
32.5°	1513.8	1523.4	1567.3	1595.9	1615.0
35°	1447.0	1460.4	1508.1	1538.6	1563.5
37.5°	1380.2	1397.4	1448.9	1483.3	1508.1
40°	1311.5	1330.6	1384.0	1424.1	1452.7
42.5°	1240.8	1261.8	1321.0	1366.8	1401.2
45°	1170.2	1191.2	1254.2	1311.5	1345.8
47.5°	1095.8	1120.6	1187.4	1254.2	1288.6
50°	1023.2	1049.9	1120.6	1193.1	1229.4
52.5°	950.7	981.2	1055.7	1132.0	1168.3
55°	878.1	906.8	988.8	1067.1	1105.3
57.5°	805.6	836.1	922.0	1004.1	1044.2
60°	733.0	765.5	855.2	941.1	981.2
62.5°	658.6	693.0	788.4	878.1	918.2
65°	588.0	622.3	721.6	815.1	855.2
67.5°	515.4	553.6	656.7	752.1	794.1
70°	442.9	484.9	593.7	689.1	731.1
72.5°	370.3	418.1	528.8	624.2	654.8
75°	299.7	355.1	467.7	525.0	530.7
77.5°	234.8	292.1	399.0	421.9	433.3
80°	171.8	234.8	299.7	328.3	326.4
82.5°	114.5	179.4	215.7	219.5	215.7
85°	66.8	110.7	120.3	118.4	114.5
87.5°	28.6	43.9	38.2	32.5	26.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)