

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-LD5-50-S-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 (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-50-S-UNV-L850-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5613.6 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

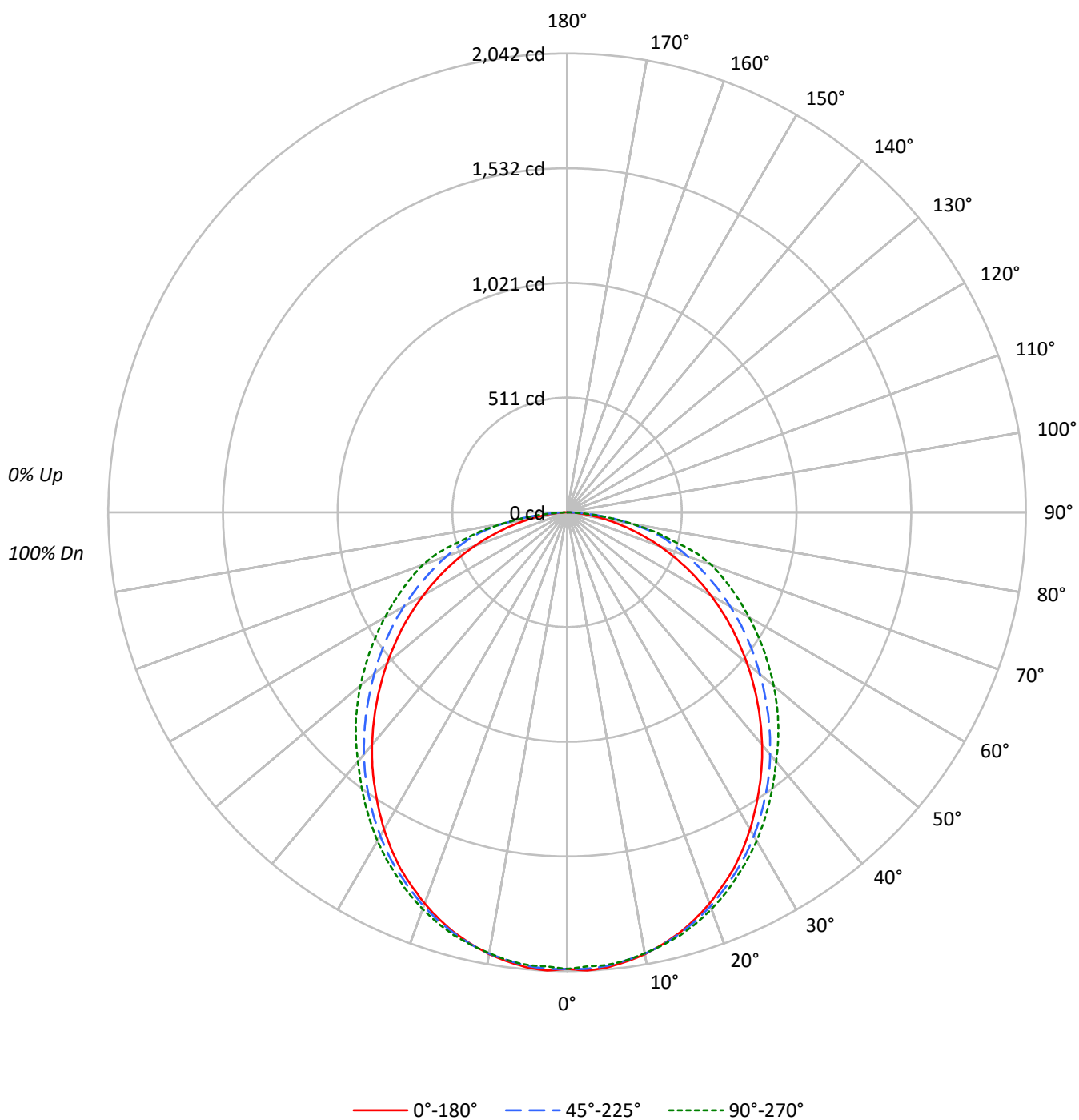
Input Watts (W): 40.68
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	104	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	99	90	83	77	96	88	82	76		85	79	75		81	77	73		78	75	71
3	90	79	71	64	87	77	70	64		74	68	62		72	66	61		69	64	60
4	82	70	61	54	80	69	60	54		66	59	53		64	58	52		62	56	52
5	76	63	53	47	73	61	53	47		59	52	46		57	51	45		55	50	45
6	70	56	47	41	68	55	47	41		54	46	40		52	45	40		50	44	40
7	65	51	42	36	63	50	42	36		49	41	36		47	41	35		46	40	35
8	60	47	38	32	59	46	38	32		45	37	32		43	37	32		42	36	32
9	56	43	35	29	55	42	34	29		41	34	29		40	33	29		39	33	29
10	53	40	32	26	52	39	31	26		38	31	26		37	31	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2734	2734	2734
5°	2741	2725	2720
10°	2716	2700	2699
15°	2680	2665	2678
20°	2629	2621	2642
25°	2571	2565	2596
30°	2495	2506	2550
35°	2409	2438	2493
40°	2323	2365	2440
45°	2226	2285	2410
50°	2126	2206	2373
55°	2022	2134	2339
60°	1903	2067	2318
65°	1772	2002	2320
70°	1609	1956	2364
75°	1395	1937	2111
80°	1116	1691	1759
85°	740	1095	1028



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.1	3.4
10°-20°	546.4	9.7
20°-30°	814.3	14.5
30°-40°	958.6	17.1
40°-50°	974.2	17.4
50°-60°	875.8	15.6
60°-70°	691.9	12.3
70°-80°	439.0	7.8
80°-90°	121.2	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°	1552.9	27.7
0°-40°	2511.5	44.7
0°-60°	4361.5	77.7
0°-90°	5613.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5613.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2032	2032	2032	2032	2032	
5°	2034	2017	2027	2023	2023	193
15°	1937	1928	1941	1946	1948	546
25°	1752	1750	1771	1782	1789	806
35°	1492	1502	1539	1556	1571	934
45°	1199	1216	1264	1302	1330	925
55°	893	915	979	1042	1068	797
65°	586	616	700	777	807	581
75°	293	344	446	486	482	312
85°	62	106	114	105	105	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2032.2	2032.2	2032.2	2032.2	2032.2
2.5°	2041.5	2026.6	2034.1	2030.3	2022.9
5°	2034.1	2017.3	2026.6	2022.9	2022.9
7.5°	2017.3	2004.2	2011.7	2009.8	2011.7
10°	1996.7	1983.6	1994.9	1994.9	1993.0
12.5°	1968.7	1957.5	1970.6	1970.6	1972.4
15°	1936.9	1927.6	1940.7	1946.3	1948.2
17.5°	1897.7	1888.4	1905.2	1910.8	1916.4
20°	1852.9	1849.2	1866.0	1871.6	1879.0
22.5°	1802.5	1802.5	1819.3	1826.7	1838.0
25°	1752.0	1750.2	1770.7	1781.9	1789.4
27.5°	1692.3	1694.1	1720.3	1731.5	1740.8
30°	1628.8	1632.5	1662.4	1675.5	1688.5
32.5°	1561.5	1569.0	1602.6	1617.5	1630.6
35°	1492.4	1501.7	1539.1	1555.9	1570.9
37.5°	1423.3	1436.4	1475.6	1492.4	1509.2
40°	1350.4	1361.7	1406.5	1427.0	1447.6
42.5°	1275.7	1290.7	1335.5	1365.4	1389.7
45°	1199.2	1216.0	1264.5	1301.9	1329.9
47.5°	1122.6	1145.0	1191.7	1242.1	1266.4
50°	1046.0	1068.4	1120.7	1176.7	1201.0
52.5°	967.5	990.0	1049.7	1107.6	1133.8
55°	892.8	915.2	978.7	1042.3	1068.4
57.5°	814.4	838.7	909.6	975.0	1001.2
60°	737.8	762.1	838.7	907.8	935.8
62.5°	663.1	689.2	769.5	842.4	870.4
65°	586.5	616.4	700.4	777.0	806.9
67.5°	511.8	545.4	633.2	713.5	745.3
70°	437.1	476.3	569.7	651.9	683.6
72.5°	364.2	407.2	506.2	588.4	605.2
75°	293.3	343.7	446.4	485.6	481.9
77.5°	226.0	282.0	379.2	386.6	397.8
80°	164.4	226.0	283.9	298.9	291.4
82.5°	108.3	170.0	203.6	196.1	194.3
85°	61.6	106.5	113.9	104.6	104.6
87.5°	26.1	43.0	37.4	28.0	26.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)