

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-L835-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-L835-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5087.8 lumens
Efficiency: N/A
Efficacy: 125.1 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

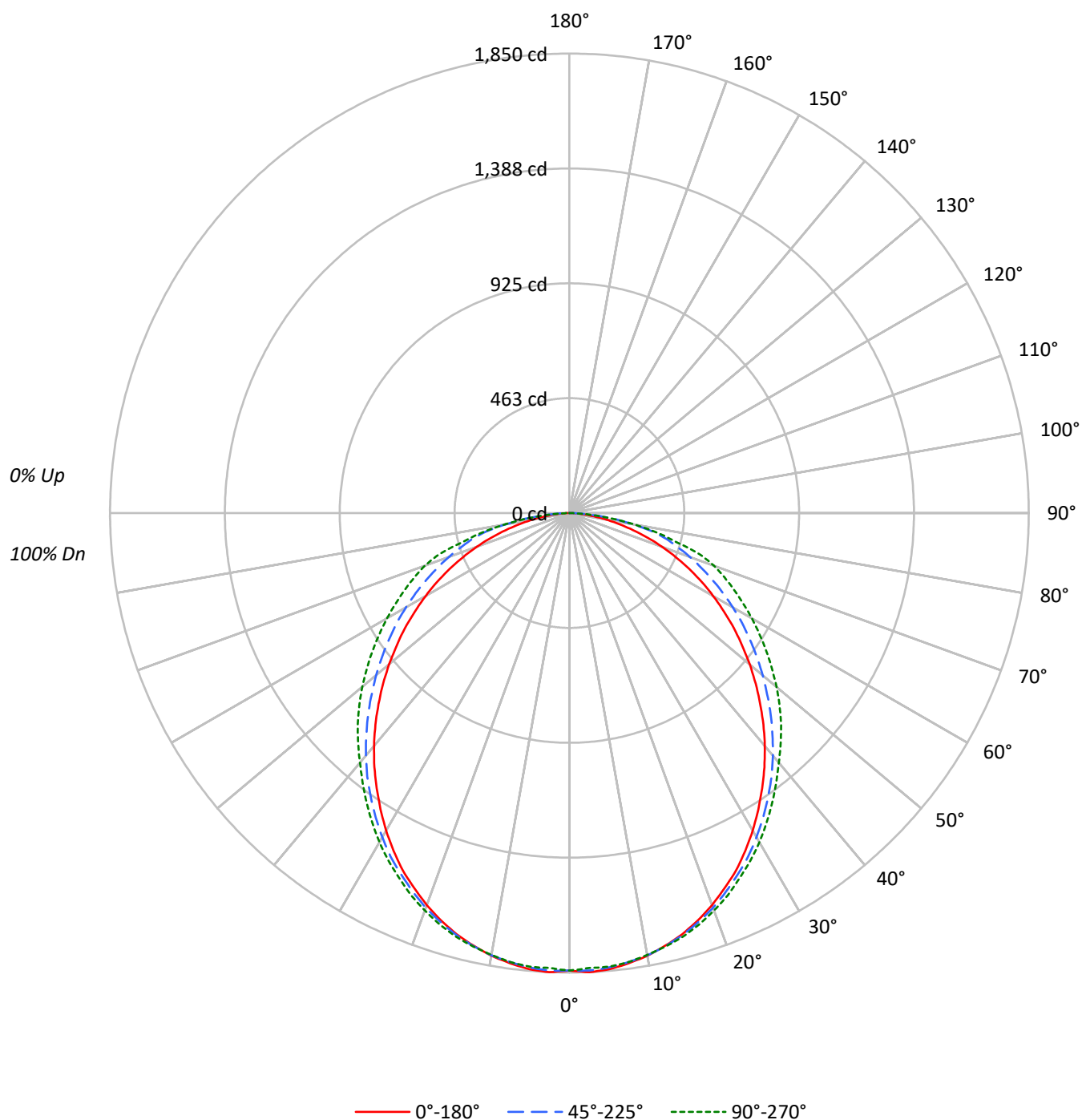
Input Watts (W): 40.68
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2478	2478	2478
5°	2485	2469	2465
10°	2462	2447	2446
15°	2429	2416	2427
20°	2383	2376	2395
25°	2330	2325	2353
30°	2261	2271	2311
35°	2183	2209	2259
40°	2106	2144	2212
45°	2018	2071	2184
50°	1927	2000	2150
55°	1833	1934	2120
60°	1725	1873	2100
65°	1606	1815	2103
70°	1458	1773	2143
75°	1264	1756	1914
80°	1011	1533	1594
85°	671	993	931



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.1	3.4
10°-20°	495.3	9.7
20°-30°	738.1	14.5
30°-40°	868.8	17.1
40°-50°	882.9	17.4
50°-60°	793.8	15.6
60°-70°	627.1	12.3
70°-80°	397.9	7.8
80°-90°	109.8	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°	1407.5	27.7
0°-40°	2276.3	44.7
0°-60°	3953.0	77.7
0°-90°	5087.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5087.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1842	1842	1842	1842	1842	
5°	1844	1828	1837	1833	1833	175
15°	1756	1747	1759	1764	1766	495
25°	1588	1586	1605	1615	1622	730
35°	1353	1361	1395	1410	1424	846
45°	1087	1102	1146	1180	1205	839
55°	809	830	887	945	968	723
65°	532	559	635	704	731	527
75°	266	312	405	440	437	283
85°	56	96	103	95	95	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1841.9	1841.9	1841.9	1841.9	1841.9
2.5°	1850.3	1836.8	1843.6	1840.2	1833.4
5°	1843.6	1828.3	1836.8	1833.4	1833.4
7.5°	1828.3	1816.5	1823.2	1821.5	1823.2
10°	1809.7	1797.8	1808.0	1808.0	1806.3
12.5°	1784.3	1774.1	1786.0	1786.0	1787.7
15°	1755.5	1747.1	1758.9	1764.0	1765.7
17.5°	1720.0	1711.5	1726.7	1731.8	1736.9
20°	1679.3	1676.0	1691.2	1696.3	1703.0
22.5°	1633.6	1633.6	1648.9	1655.6	1665.8
25°	1587.9	1586.2	1604.9	1615.0	1621.8
27.5°	1533.8	1535.4	1559.2	1569.3	1577.8
30°	1476.2	1479.6	1506.7	1518.5	1530.4
32.5°	1415.3	1422.0	1452.5	1466.0	1477.9
35°	1352.6	1361.1	1394.9	1410.2	1423.7
37.5°	1290.0	1301.8	1337.4	1352.6	1367.9
40°	1224.0	1234.1	1274.7	1293.4	1312.0
42.5°	1156.2	1169.8	1210.4	1237.5	1259.5
45°	1086.8	1102.1	1146.1	1179.9	1205.3
47.5°	1017.4	1037.7	1080.1	1125.8	1147.8
50°	948.0	968.3	1015.7	1066.5	1088.5
52.5°	876.9	897.2	951.4	1003.9	1027.6
55°	809.2	829.5	887.1	944.6	968.3
57.5°	738.1	760.1	824.4	883.7	907.4
60°	668.7	690.7	760.1	822.7	848.1
62.5°	601.0	624.7	697.5	763.5	788.9
65°	531.6	558.7	634.8	704.2	731.3
67.5°	463.9	494.3	573.9	646.7	675.5
70°	396.1	431.7	516.3	590.8	619.6
72.5°	330.1	369.0	458.8	533.3	548.5
75°	265.8	311.5	404.6	440.2	436.8
77.5°	204.8	255.6	343.7	350.4	360.6
80°	149.0	204.8	257.3	270.9	264.1
82.5°	98.2	154.1	184.5	177.8	176.1
85°	55.9	96.5	103.3	94.8	94.8
87.5°	23.7	38.9	33.9	25.4	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)