

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-L830-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-L830-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4789.3 lumens
Efficiency: N/A
Efficacy: 117.7 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

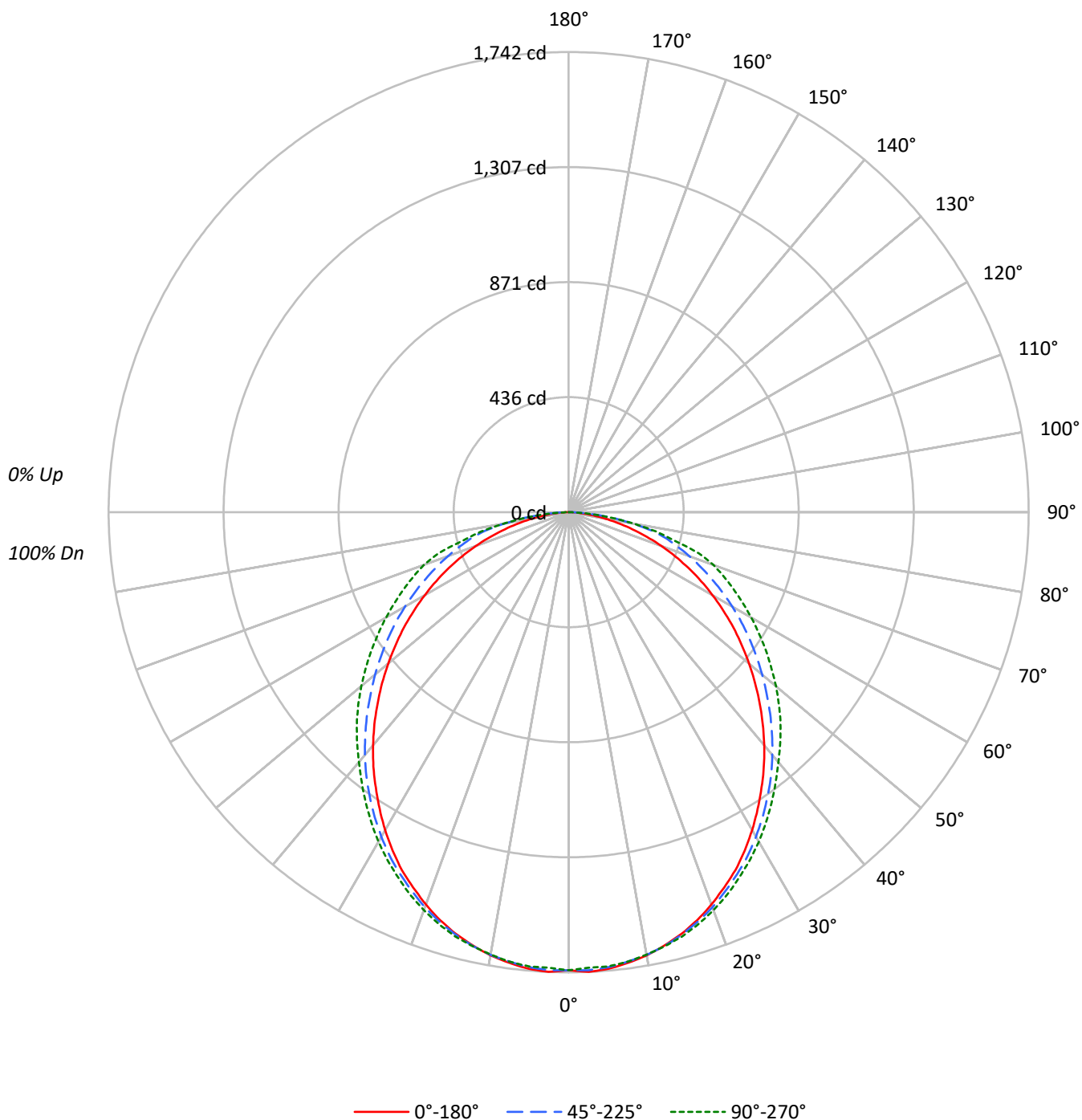
Input Watts (W): 40.68
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		50
5	76	63	53	47	73	61	53	47	59	52	46		57	51	45		43
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	35		33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		27
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2333	2333	2333
5°	2339	2324	2321
10°	2317	2304	2303
15°	2287	2274	2285
20°	2243	2236	2254
25°	2193	2189	2215
30°	2128	2138	2175
35°	2055	2080	2127
40°	1982	2018	2082
45°	1899	1949	2056
50°	1814	1883	2024
55°	1725	1821	1996
60°	1624	1763	1977
65°	1512	1708	1980
70°	1373	1669	2017
75°	1190	1653	1801
80°	951	1443	1501
85°	632	934	876



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.9	3.4
10°-20°	466.2	9.7
20°-30°	694.8	14.5
30°-40°	817.9	17.1
40°-50°	831.1	17.4
50°-60°	747.2	15.6
60°-70°	590.3	12.3
70°-80°	374.5	7.8
80°-90°	103.3	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°	1324.9	27.7
0°-40°	2142.7	44.7
0°-60°	3721.1	77.7
0°-90°	4789.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4789.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1734	1734	1734	1734	1734	
5°	1735	1721	1729	1726	1726	165
15°	1652	1644	1656	1660	1662	465
25°	1495	1493	1511	1520	1527	687
35°	1273	1281	1313	1327	1340	797
45°	1023	1037	1079	1111	1135	789
55°	762	781	835	889	912	680
65°	500	526	598	663	688	496
75°	250	293	381	414	411	266
85°	53	91	97	89	89	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1733.8	1733.8	1733.8	1733.8	1733.8
2.5°	1741.8	1729.0	1735.4	1732.2	1725.9
5°	1735.4	1721.0	1729.0	1725.9	1725.9
7.5°	1721.0	1709.9	1716.3	1714.7	1716.3
10°	1703.5	1692.4	1701.9	1701.9	1700.3
12.5°	1679.6	1670.1	1681.2	1681.2	1682.8
15°	1652.5	1644.5	1655.8	1660.5	1662.1
17.5°	1619.1	1611.1	1625.4	1630.2	1635.0
20°	1580.8	1577.7	1592.0	1596.8	1603.1
22.5°	1537.8	1537.8	1552.1	1558.5	1568.1
25°	1494.7	1493.2	1510.7	1520.3	1526.6
27.5°	1443.8	1445.3	1467.7	1477.2	1485.2
30°	1389.6	1392.8	1418.3	1429.5	1440.6
32.5°	1332.2	1338.6	1367.3	1380.1	1391.2
35°	1273.3	1281.3	1313.1	1327.4	1340.2
37.5°	1214.3	1225.5	1258.9	1273.3	1287.6
40°	1152.2	1161.8	1199.9	1217.5	1235.0
42.5°	1088.4	1101.1	1139.4	1164.9	1185.6
45°	1023.1	1037.4	1078.8	1110.7	1134.6
47.5°	957.7	976.9	1016.7	1059.7	1080.4
50°	892.4	911.5	956.2	1004.0	1024.7
52.5°	825.5	844.6	895.6	945.0	967.3
55°	761.7	780.9	835.0	889.2	911.5
57.5°	694.8	715.5	776.1	831.8	854.1
60°	629.5	650.2	715.5	774.4	798.4
62.5°	565.7	588.0	656.5	718.7	742.6
65°	500.4	525.9	597.6	662.9	688.5
67.5°	436.6	465.3	540.3	608.8	635.8
70°	372.9	406.4	486.0	556.1	583.2
72.5°	310.7	347.4	431.9	502.0	516.3
75°	250.2	293.3	380.9	414.3	411.2
77.5°	192.8	240.6	323.5	329.8	339.4
80°	140.2	192.8	242.2	255.0	248.6
82.5°	92.4	145.0	173.7	167.3	165.8
85°	52.6	90.8	97.2	89.2	89.2
87.5°	22.3	36.7	31.8	23.9	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)