

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-LD5-45-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-LD5-45-S-UNV-L850-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5029.5 lumens
Efficiency: N/A
Efficacy: 140.9 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

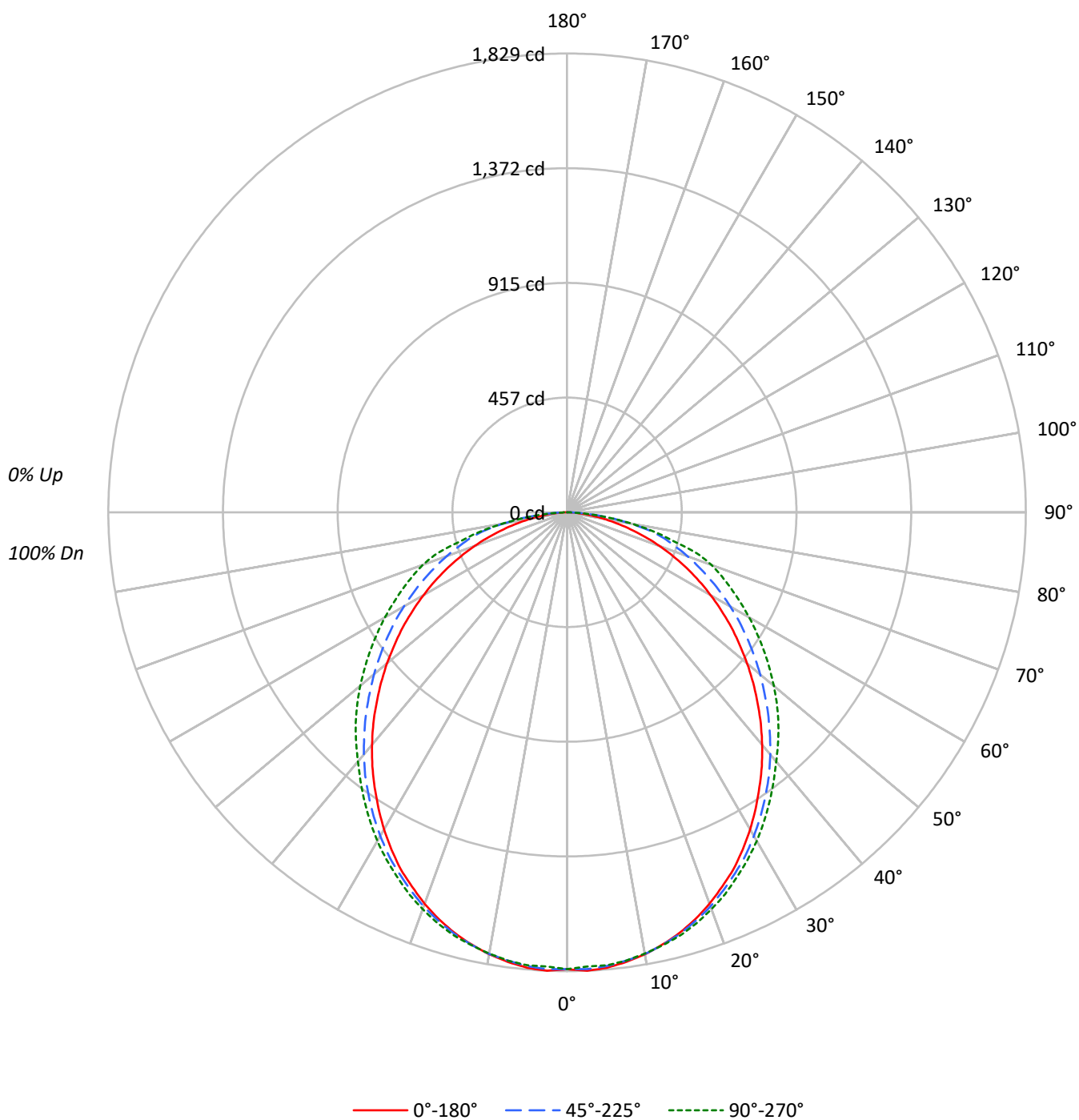
Input Watts (W): 35.69
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2450	2450	2450
5°	2456	2441	2437
10°	2433	2419	2418
15°	2401	2388	2399
20°	2356	2348	2367
25°	2303	2298	2326
30°	2235	2245	2284
35°	2158	2184	2234
40°	2081	2119	2186
45°	1995	2047	2159
50°	1905	1977	2126
55°	1812	1912	2096
60°	1705	1852	2076
65°	1588	1794	2079
70°	1442	1753	2119
75°	1249	1736	1892
80°	1000	1515	1576
85°	663	981	920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.1	3.4
10°-20°	489.6	9.7
20°-30°	729.6	14.5
30°-40°	858.9	17.1
40°-50°	872.8	17.4
50°-60°	784.7	15.6
60°-70°	619.9	12.3
70°-80°	393.3	7.8
80°-90°	108.5	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°	1391.3	27.7
0°-40°	2250.2	44.7
0°-60°	3907.7	77.7
0°-90°	5029.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5029.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1821	1821	1821	1821	1821	
5°	1822	1807	1816	1812	1812	173
15°	1735	1727	1739	1744	1745	489
25°	1570	1568	1586	1596	1603	722
35°	1337	1346	1379	1394	1407	837
45°	1074	1089	1133	1166	1192	829
55°	800	820	877	934	957	714
65°	526	552	628	696	723	521
75°	263	308	400	435	432	280
85°	55	95	102	94	94	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1820.8	1820.8	1820.8	1820.8	1820.8
2.5°	1829.1	1815.7	1822.4	1819.1	1812.4
5°	1822.4	1807.4	1815.7	1812.4	1812.4
7.5°	1807.4	1795.7	1802.3	1800.7	1802.3
10°	1789.0	1777.2	1787.3	1787.3	1785.6
12.5°	1763.9	1753.8	1765.5	1765.5	1767.2
15°	1735.4	1727.0	1738.8	1743.8	1745.4
17.5°	1700.3	1691.9	1707.0	1712.0	1717.0
20°	1660.1	1656.8	1671.8	1676.8	1683.5
22.5°	1614.9	1614.9	1630.0	1636.7	1646.7
25°	1569.7	1568.1	1586.5	1596.5	1603.2
27.5°	1516.2	1517.9	1541.3	1551.3	1559.7
30°	1459.3	1462.6	1489.4	1501.1	1512.8
32.5°	1399.0	1405.7	1435.9	1449.2	1461.0
35°	1337.1	1345.5	1379.0	1394.0	1407.4
37.5°	1275.2	1286.9	1322.1	1337.1	1352.2
40°	1209.9	1220.0	1260.1	1278.5	1297.0
42.5°	1143.0	1156.4	1196.5	1223.3	1245.1
45°	1074.4	1089.4	1133.0	1166.4	1191.5
47.5°	1005.8	1025.8	1067.7	1112.9	1134.6
50°	937.2	957.2	1004.1	1054.3	1076.1
52.5°	866.9	886.9	940.5	992.4	1015.8
55°	799.9	820.0	876.9	933.8	957.2
57.5°	729.6	751.4	815.0	873.6	897.0
60°	661.0	682.8	751.4	813.3	838.4
62.5°	594.1	617.5	689.5	754.7	779.8
65°	525.5	552.3	627.6	696.2	722.9
67.5°	458.5	488.7	567.3	639.3	667.7
70°	391.6	426.7	510.4	584.0	612.5
72.5°	326.3	364.8	453.5	527.1	542.2
75°	262.7	307.9	400.0	435.1	431.8
77.5°	202.5	252.7	339.7	346.4	356.5
80°	147.3	202.5	254.4	267.8	261.1
82.5°	97.1	152.3	182.4	175.7	174.0
85°	55.2	95.4	102.1	93.7	93.7
87.5°	23.4	38.5	33.5	25.1	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)