

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

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5044.5 lumens
Efficiency: N/A
Efficacy: 126.4 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

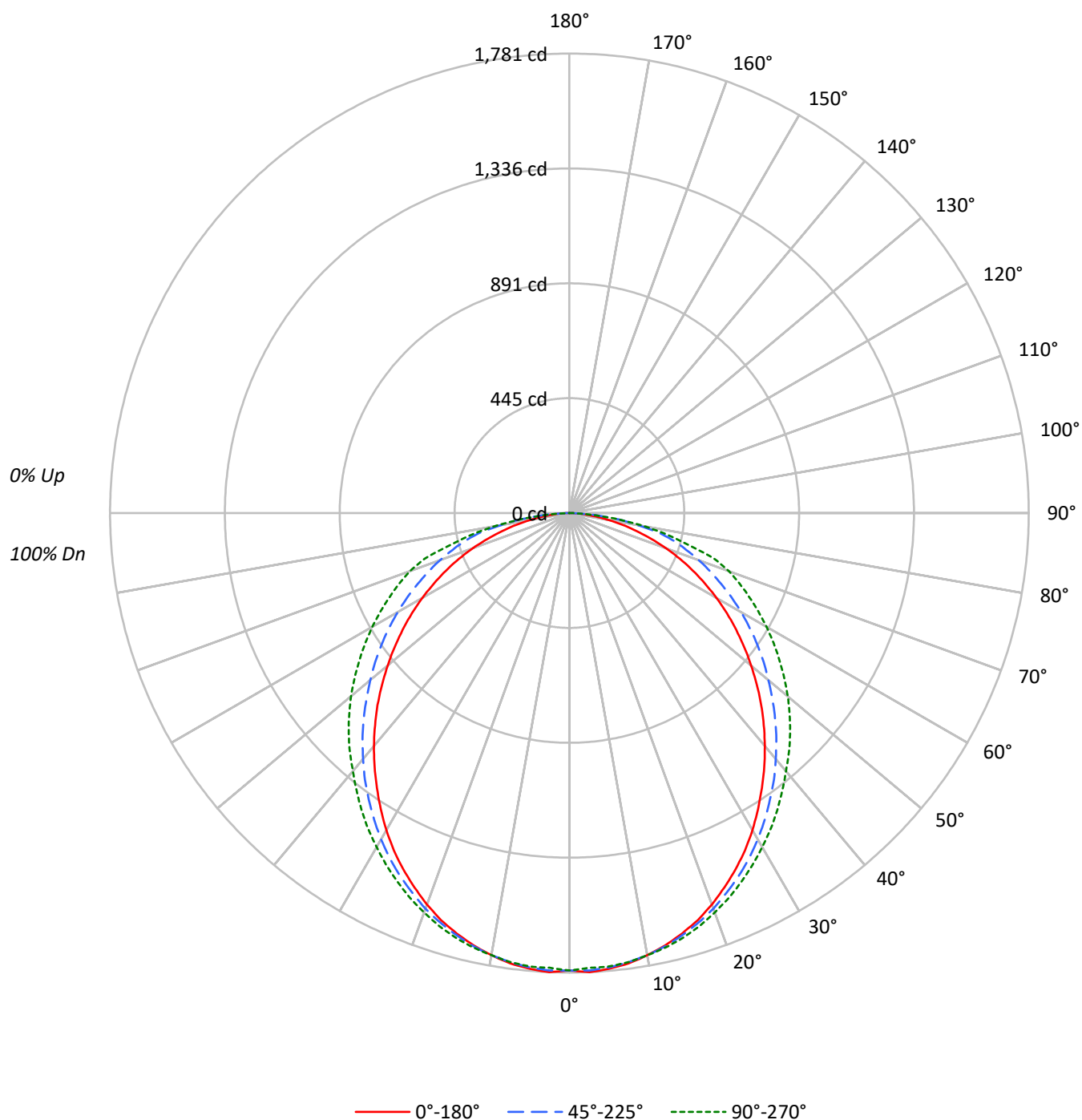
Input Watts (W): 39.91
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	95	106	101	97	93		97	93	90		93	90	88		89	87	85
2	98	90	83	77	96	88	81	76		84	79	74		81	76	72		78	74	71
3	89	79	70	63	87	77	69	63		74	67	62		71	65	61		69	64	60
4	82	69	60	54	79	68	60	53		66	58	52		63	57	52		61	56	51
5	75	62	53	46	73	61	52	46		59	51	45		57	50	45		55	49	44
6	69	56	47	40	67	55	46	40		53	45	40		51	44	39		50	44	39
7	64	51	42	35	63	50	41	35		48	41	35		47	40	35		45	39	35
8	60	46	38	32	58	45	37	32		44	37	31		43	36	31		42	36	31
9	56	42	34	28	55	42	34	28		41	33	28		40	33	28		39	32	28
10	52	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2385	2385	2385
5°	2389	2376	2372
10°	2367	2355	2357
15°	2334	2326	2342
20°	2291	2293	2317
25°	2236	2250	2288
30°	2174	2202	2257
35°	2100	2147	2230
40°	2028	2092	2201
45°	1953	2037	2192
50°	1870	1983	2183
55°	1788	1938	2175
60°	1700	1895	2185
65°	1597	1854	2211
70°	1465	1833	2273
75°	1281	1824	2090
80°	1048	1605	1771
85°	722	1039	1012



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.6	3.3
10°-20°	477.1	9.5
20°-30°	713.2	14.1
30°-40°	845.7	16.8
40°-50°	869.7	17.2
50°-60°	795.6	15.8
60°-70°	641.6	12.7
70°-80°	416.6	8.3
80°-90°	117.2	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°	1358.0	26.9
0°-40°	2203.7	43.7
0°-60°	3869.0	76.7
0°-90°	5044.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5044.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1773	1773	1773	1773	1773	
5°	1773	1761	1768	1764	1764	168
15°	1687	1678	1694	1701	1704	475
25°	1524	1524	1553	1565	1577	702
35°	1301	1313	1356	1383	1405	814
45°	1052	1071	1127	1179	1210	811
55°	789	815	889	959	994	706
65°	528	559	649	733	769	523
75°	269	319	420	472	477	287
85°	60	100	108	106	103	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1772.7	1772.7	1772.7	1772.7	1772.7
2.5°	1781.3	1767.5	1774.4	1771.0	1764.1
5°	1772.7	1760.7	1767.5	1764.1	1764.1
7.5°	1760.7	1748.7	1755.5	1755.5	1755.5
10°	1740.1	1729.8	1740.1	1740.1	1740.1
12.5°	1716.1	1707.5	1719.5	1721.2	1724.6
15°	1686.9	1678.3	1693.7	1700.6	1704.0
17.5°	1654.3	1647.4	1664.6	1673.2	1678.3
20°	1614.8	1609.7	1632.0	1640.5	1647.4
22.5°	1570.2	1570.2	1592.5	1602.8	1614.8
25°	1523.9	1523.9	1553.0	1565.0	1577.1
27.5°	1474.1	1475.8	1508.4	1525.6	1537.6
30°	1419.2	1426.0	1460.4	1481.0	1494.7
32.5°	1360.8	1369.4	1408.9	1434.6	1451.8
35°	1300.8	1312.8	1355.7	1383.1	1405.4
37.5°	1240.7	1256.1	1302.5	1333.4	1355.7
40°	1178.9	1196.1	1244.1	1280.2	1305.9
42.5°	1115.4	1134.3	1187.5	1228.7	1259.6
45°	1051.9	1070.8	1127.4	1178.9	1209.8
47.5°	985.0	1007.3	1067.4	1127.4	1158.3
50°	919.8	943.8	1007.3	1072.5	1105.1
52.5°	854.6	882.1	949.0	1017.6	1050.2
55°	789.4	815.1	888.9	959.3	993.6
57.5°	724.2	751.6	828.9	902.6	938.7
60°	659.0	688.1	768.8	846.0	882.1
62.5°	592.0	622.9	708.7	789.4	825.4
65°	528.5	559.4	648.7	732.8	768.8
67.5°	463.3	497.7	590.3	676.1	713.9
70°	398.1	435.9	533.7	619.5	657.2
72.5°	332.9	375.8	475.3	561.1	588.6
75°	269.4	319.2	420.4	471.9	477.1
77.5°	211.1	262.6	358.7	379.2	389.5
80°	154.4	211.1	269.4	295.2	293.4
82.5°	103.0	161.3	193.9	197.3	193.9
85°	60.1	99.5	108.1	106.4	103.0
87.5°	25.7	39.5	34.3	29.2	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)