

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

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4303.8 lumens
Efficiency: N/A
Efficacy: 107.8 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

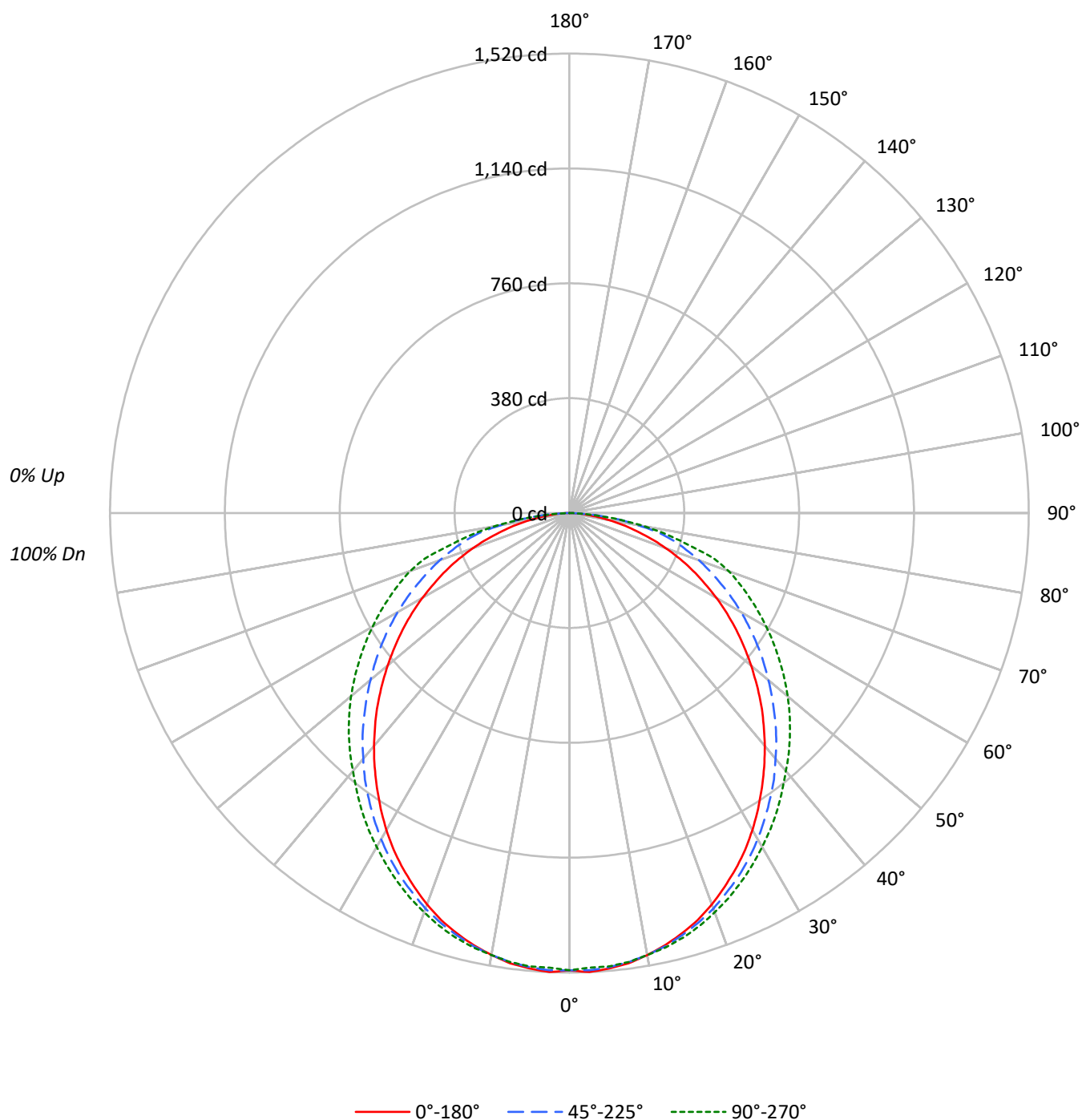
Input Watts (W): 39.91
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10
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°	2035	2035	2035
5°	2038	2027	2024
10°	2019	2010	2011
15°	1991	1985	1998
20°	1955	1956	1976
25°	1908	1920	1952
30°	1854	1878	1926
35°	1792	1832	1903
40°	1730	1785	1878
45°	1666	1738	1871
50°	1595	1692	1863
55°	1525	1654	1856
60°	1450	1617	1864
65°	1363	1582	1886
70°	1250	1563	1940
75°	1093	1557	1783
80°	894	1369	1511
85°	615	886	863



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.0	3.3
10°-20°	407.1	9.5
20°-30°	608.5	14.1
30°-40°	721.6	16.8
40°-50°	742.0	17.2
50°-60°	678.7	15.8
60°-70°	547.4	12.7
70°-80°	355.4	8.3
80°-90°	100.0	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°	1158.6	26.9
0°-40°	1880.1	43.7
0°-60°	3300.9	76.7
0°-90°	4303.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4303.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1512	1512	1512	1512	1512	
5°	1512	1502	1508	1505	1505	144
15°	1439	1432	1445	1451	1454	406
25°	1300	1300	1325	1335	1346	599
35°	1110	1120	1157	1180	1199	694
45°	898	914	962	1006	1032	692
55°	674	695	758	818	848	602
65°	451	477	553	625	656	446
75°	230	272	359	403	407	245
85°	51	85	92	91	88	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1512.4	1512.4	1512.4	1512.4	1512.4
2.5°	1519.7	1508.0	1513.8	1511.0	1505.1
5°	1512.4	1502.1	1508.0	1505.1	1505.1
7.5°	1502.1	1491.9	1497.8	1497.8	1497.8
10°	1484.6	1475.8	1484.6	1484.6	1484.6
12.5°	1464.0	1456.7	1467.0	1468.5	1471.4
15°	1439.2	1431.8	1445.0	1450.9	1453.8
17.5°	1411.4	1405.5	1420.2	1427.5	1431.8
20°	1377.7	1373.3	1392.3	1399.6	1405.5
22.5°	1339.6	1339.6	1358.7	1367.4	1377.7
25°	1300.1	1300.1	1325.0	1335.2	1345.5
27.5°	1257.6	1259.1	1287.0	1301.6	1311.9
30°	1210.8	1216.7	1245.9	1263.5	1275.2
32.5°	1161.0	1168.3	1202.0	1224.0	1238.6
35°	1109.8	1120.0	1156.6	1180.1	1199.1
37.5°	1058.5	1071.7	1111.2	1137.6	1156.6
40°	1005.9	1020.5	1061.4	1092.2	1114.2
42.5°	951.6	967.8	1013.2	1048.3	1074.6
45°	897.5	913.6	961.9	1005.9	1032.2
47.5°	840.4	859.4	910.7	961.9	988.3
50°	784.7	805.2	859.4	915.0	942.9
52.5°	729.1	752.5	809.6	868.2	896.0
55°	673.5	695.4	758.4	818.4	847.7
57.5°	617.9	641.2	707.2	770.1	800.8
60°	562.2	587.1	655.9	721.8	752.5
62.5°	505.1	531.4	604.7	673.5	704.2
65°	451.0	477.3	553.4	625.2	655.9
67.5°	395.3	424.6	503.7	576.8	609.0
70°	339.6	371.8	455.3	528.6	560.8
72.5°	284.0	320.6	405.6	478.8	502.2
75°	229.9	272.4	358.7	402.6	407.0
77.5°	180.1	224.0	306.0	323.6	332.3
80°	131.8	180.1	229.9	251.8	250.3
82.5°	87.9	137.7	165.4	168.3	165.4
85°	51.2	84.9	92.2	90.8	87.9
87.5°	21.9	33.6	29.3	24.9	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)