

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-LD5-55-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-LD5-55-UNV-L830-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

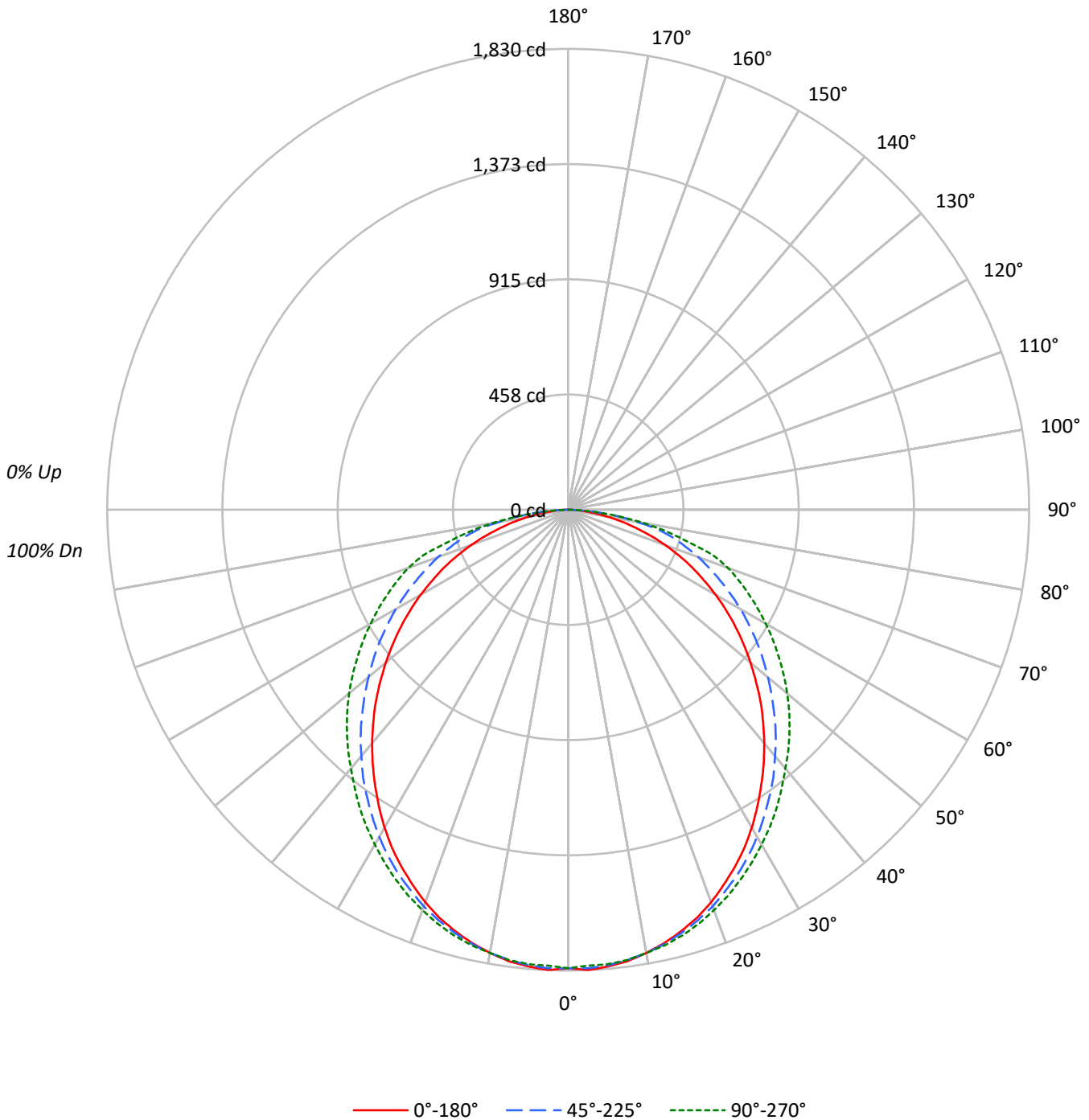
Lumens per Lamp: N/A
Luminaire Lumens: 5181.1 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 45.8
Input Voltage (V): NR
Input Current (A_{in}): 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	0		
RW	70	50	30	10	70	50	30	10	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		102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	79	70	63	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31		43	36	31		42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		39	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2450	2450	2450
5°	2454	2441	2436
10°	2431	2419	2420
15°	2397	2389	2406
20°	2353	2355	2379
25°	2297	2311	2350
30°	2232	2261	2318
35°	2157	2205	2291
40°	2083	2149	2261
45°	2006	2092	2252
50°	1920	2037	2242
55°	1836	1991	2234
60°	1746	1946	2243
65°	1640	1904	2270
70°	1505	1882	2335
75°	1316	1874	2147
80°	1076	1648	1819
85°	741	1068	1038



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.2	3.3
10°-20°	490.1	9.5
20°-30°	732.5	14.1
30°-40°	868.6	16.8
40°-50°	893.3	17.2
50°-60°	817.1	15.8
60°-70°	659.0	12.7
70°-80°	427.9	8.3
80°-90°	120.4	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°	1394.8	26.9
0°-40°	2263.4	43.7
0°-60°	3973.8	76.7
0°-90°	5181.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5181.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1821	1821	1821	1821	1821	
5°	1821	1808	1815	1812	1812	173
15°	1733	1724	1740	1747	1750	488
25°	1565	1565	1595	1607	1620	721
35°	1336	1348	1392	1421	1444	836
45°	1080	1100	1158	1211	1243	833
55°	811	837	913	985	1020	725
65°	543	575	666	753	790	537
75°	277	328	432	485	490	295
85°	62	102	111	109	106	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1820.7	1820.7	1820.7	1820.7	1820.7
2.5°	1829.5	1815.4	1822.5	1819.0	1811.8
5°	1820.7	1808.3	1815.4	1811.8	1811.8
7.5°	1808.3	1796.0	1803.1	1803.1	1803.1
10°	1787.2	1776.6	1787.2	1787.2	1787.2
12.5°	1762.5	1753.7	1766.0	1767.9	1771.4
15°	1732.6	1723.8	1739.6	1746.7	1750.2
17.5°	1699.1	1692.0	1709.6	1718.5	1723.8
20°	1658.5	1653.3	1676.2	1685.0	1692.0
22.5°	1612.7	1612.7	1635.6	1646.2	1658.5
25°	1565.1	1565.1	1595.0	1607.4	1619.8
27.5°	1514.0	1515.8	1549.3	1566.9	1579.2
30°	1457.6	1464.7	1500.0	1521.0	1535.2
32.5°	1397.7	1406.5	1447.0	1473.4	1491.1
35°	1336.0	1348.3	1392.4	1420.6	1443.5
37.5°	1274.3	1290.2	1337.8	1369.5	1392.4
40°	1210.9	1228.4	1277.8	1314.9	1341.3
42.5°	1145.6	1165.1	1219.7	1262.0	1293.7
45°	1080.4	1099.8	1158.0	1210.9	1242.6
47.5°	1011.7	1034.6	1096.3	1158.0	1189.7
50°	944.7	969.4	1034.6	1101.6	1135.1
52.5°	877.7	905.9	974.7	1045.2	1078.6
55°	810.7	837.2	913.0	985.2	1020.5
57.5°	743.8	772.0	851.3	927.1	964.1
60°	676.8	706.8	789.6	869.0	905.9
62.5°	608.1	639.8	727.9	810.7	847.8
65°	542.8	574.6	666.2	752.6	789.6
67.5°	475.9	511.1	606.3	694.4	733.2
70°	408.9	447.6	548.2	636.3	675.1
72.5°	341.9	386.0	488.2	576.4	604.6
75°	276.7	327.8	431.8	484.7	490.0
77.5°	216.8	269.7	368.4	389.5	400.1
80°	158.6	216.8	276.7	303.1	301.4
82.5°	105.7	165.7	199.1	202.7	199.1
85°	61.7	102.2	111.1	109.2	105.7
87.5°	26.4	40.6	35.2	29.9	24.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)