

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-UNV-L835-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-LD5-50-UNV-L835-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

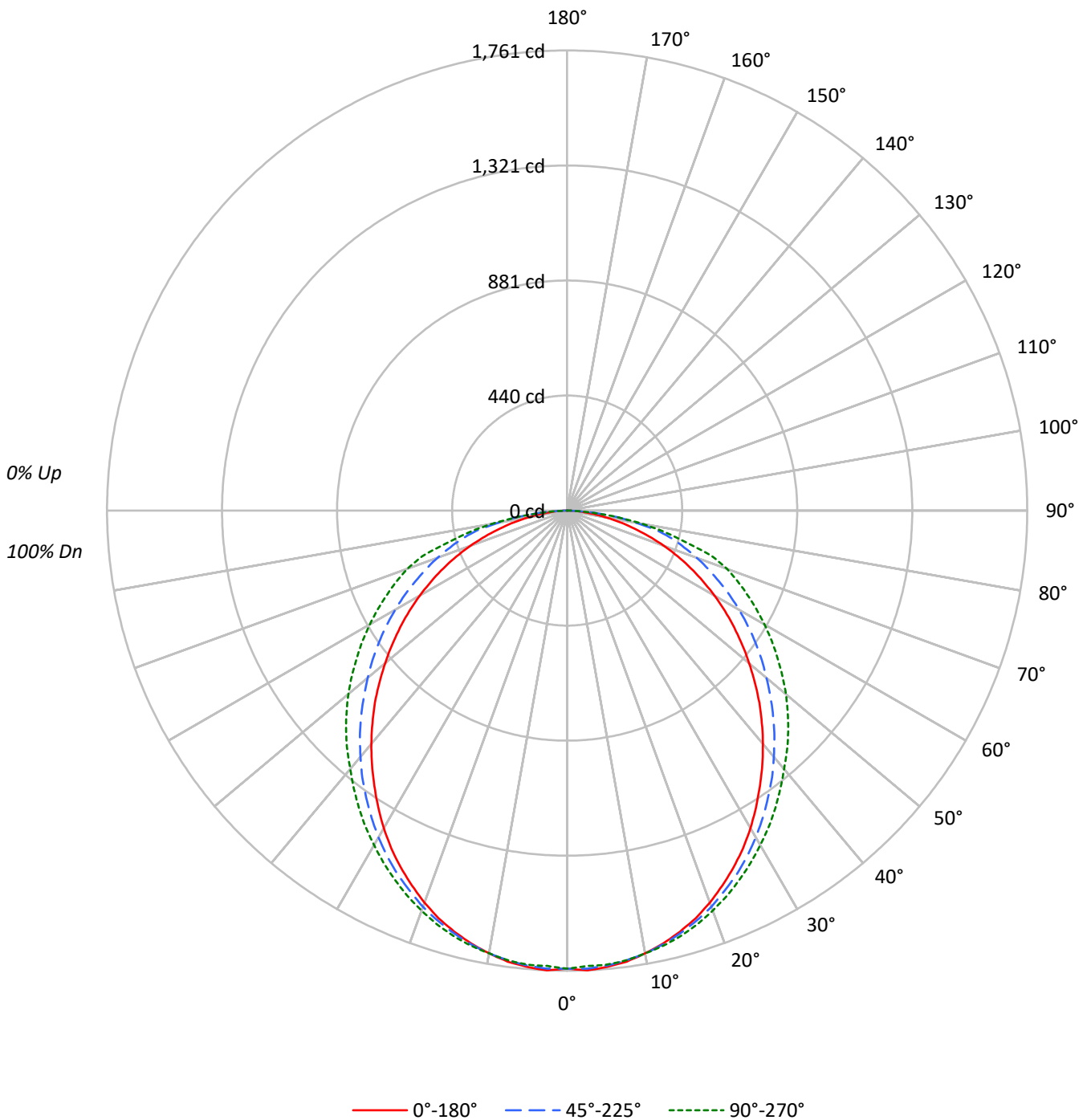
Lumens per Lamp: N/A
Luminaire Lumens: 4988.0 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 40.68
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°	2358	2358	2358
5°	2362	2350	2346
10°	2340	2329	2330
15°	2308	2300	2316
20°	2266	2267	2291
25°	2211	2225	2262
30°	2149	2177	2232
35°	2076	2123	2205
40°	2005	2069	2177
45°	1931	2014	2168
50°	1849	1961	2159
55°	1768	1917	2151
60°	1681	1874	2160
65°	1579	1834	2186
70°	1449	1812	2248
75°	1267	1804	2067
80°	1036	1587	1752
85°	713	1027	1000



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.8	3.3
10°-20°	471.8	9.5
20°-30°	705.2	14.1
30°-40°	836.3	16.8
40°-50°	860.0	17.2
50°-60°	786.7	15.8
60°-70°	634.5	12.7
70°-80°	411.9	8.3
80°-90°	115.9	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°	1342.8	26.9
0°-40°	2179.0	43.7
0°-60°	3825.7	76.7
0°-90°	4988.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4988.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1753	1753	1753	1753	1753	
5°	1753	1741	1748	1744	1744	166
15°	1668	1660	1675	1682	1685	470
25°	1507	1507	1536	1548	1559	694
35°	1286	1298	1340	1368	1390	805
45°	1040	1059	1115	1166	1196	802
55°	780	806	879	948	982	698
65°	523	553	641	724	760	517
75°	266	316	416	467	472	284
85°	59	98	107	105	102	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1752.8	1752.8	1752.8	1752.8	1752.8
2.5°	1761.3	1747.7	1754.5	1751.1	1744.3
5°	1752.8	1741.0	1747.7	1744.3	1744.3
7.5°	1741.0	1729.1	1735.9	1735.9	1735.9
10°	1720.6	1710.4	1720.6	1720.6	1720.6
12.5°	1696.8	1688.4	1700.2	1701.9	1705.3
15°	1668.0	1659.5	1674.8	1681.6	1685.0
17.5°	1635.7	1629.0	1645.9	1654.4	1659.5
20°	1596.7	1591.6	1613.7	1622.2	1629.0
22.5°	1552.6	1552.6	1574.7	1584.8	1596.7
25°	1506.8	1506.8	1535.6	1547.5	1559.4
27.5°	1457.6	1459.3	1491.5	1508.5	1520.4
30°	1403.3	1410.1	1444.0	1464.4	1477.9
32.5°	1345.6	1354.1	1393.1	1418.6	1435.5
35°	1286.2	1298.1	1340.5	1367.6	1389.7
37.5°	1226.8	1242.1	1287.9	1318.4	1340.5
40°	1165.7	1182.7	1230.2	1265.8	1291.3
42.5°	1102.9	1121.6	1174.2	1214.9	1245.5
45°	1040.2	1058.8	1114.8	1165.7	1196.3
47.5°	974.0	996.0	1055.4	1114.8	1145.4
50°	909.5	933.3	996.0	1060.5	1092.8
52.5°	845.0	872.2	938.4	1006.2	1038.5
55°	780.5	806.0	879.0	948.5	982.5
57.5°	716.1	743.2	819.6	892.5	928.2
60°	651.6	680.4	760.2	836.5	872.2
62.5°	585.4	616.0	700.8	780.5	816.2
65°	522.6	553.2	641.4	724.5	760.2
67.5°	458.1	492.1	583.7	668.6	705.9
70°	393.7	431.0	527.7	612.6	649.9
72.5°	329.2	371.6	470.0	554.9	582.0
75°	266.4	315.6	415.7	466.6	471.7
77.5°	208.7	259.6	354.6	375.0	385.2
80°	152.7	208.7	266.4	291.9	290.2
82.5°	101.8	159.5	191.7	195.1	191.7
85°	59.4	98.4	106.9	105.2	101.8
87.5°	25.5	39.0	33.9	28.8	23.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)