

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-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-LD5-50-UNV-L850-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

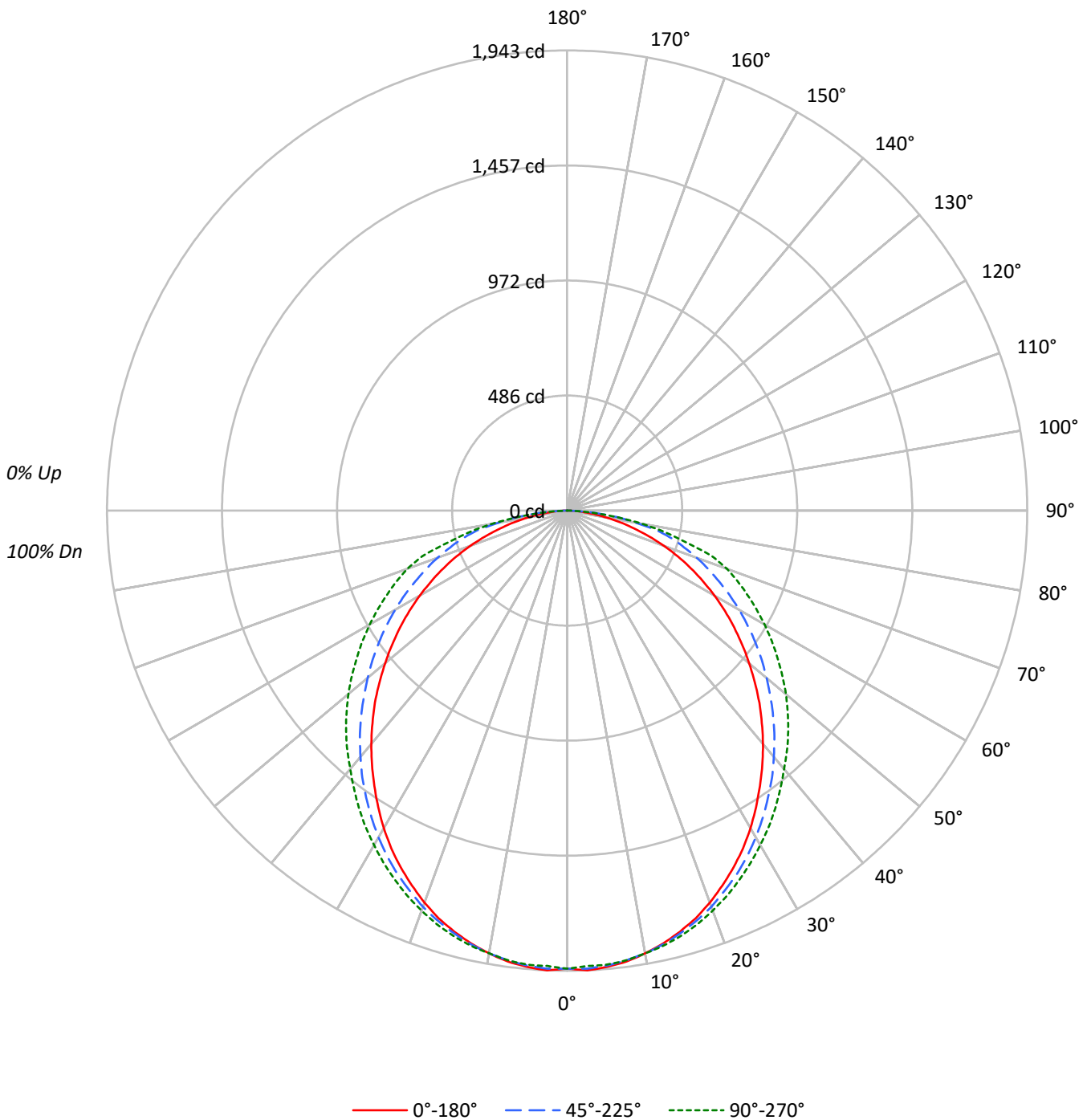
Lumens per Lamp: N/A
Luminaire Lumens: 5503.5 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

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°	2602	2602	2602
5°	2606	2593	2588
10°	2582	2570	2571
15°	2547	2538	2555
20°	2500	2501	2527
25°	2440	2455	2496
30°	2371	2402	2462
35°	2291	2342	2433
40°	2213	2282	2402
45°	2131	2223	2392
50°	2040	2164	2382
55°	1951	2115	2373
60°	1854	2067	2383
65°	1742	2023	2412
70°	1599	1999	2480
75°	1397	1991	2280
80°	1143	1751	1932
85°	786	1133	1103



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.9	3.3
10°-20°	520.5	9.5
20°-30°	778.1	14.1
30°-40°	922.7	16.8
40°-50°	948.9	17.2
50°-60°	868.0	15.8
60°-70°	700.0	12.7
70°-80°	454.5	8.3
80°-90°	127.9	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°	1481.5	26.9
0°-40°	2404.2	43.7
0°-60°	4221.1	76.7
0°-90°	5503.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5503.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1934	1934	1934	1934	1934	
5°	1934	1921	1928	1925	1925	184
15°	1840	1831	1848	1855	1859	519
25°	1662	1662	1694	1707	1720	765
35°	1419	1432	1479	1509	1533	888
45°	1148	1168	1230	1286	1320	885
55°	861	889	970	1047	1084	770
65°	577	610	708	799	839	570
75°	294	348	459	515	520	313
85°	66	109	118	116	112	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1934.0	1934.0	1934.0	1934.0	1934.0
2.5°	1943.3	1928.4	1935.8	1932.1	1924.6
5°	1934.0	1920.9	1928.4	1924.6	1924.6
7.5°	1920.9	1907.8	1915.3	1915.3	1915.3
10°	1898.4	1887.2	1898.4	1898.4	1898.4
12.5°	1872.2	1862.8	1875.9	1877.8	1881.6
15°	1840.4	1831.0	1847.9	1855.3	1859.1
17.5°	1804.8	1797.3	1816.0	1825.4	1831.0
20°	1761.7	1756.1	1780.5	1789.8	1797.3
22.5°	1713.1	1713.1	1737.4	1748.6	1761.7
25°	1662.5	1662.5	1694.3	1707.4	1720.5
27.5°	1608.2	1610.1	1645.7	1664.4	1677.5
30°	1548.3	1555.8	1593.2	1615.7	1630.7
32.5°	1484.6	1494.0	1537.1	1565.2	1583.9
35°	1419.1	1432.2	1479.0	1509.0	1533.3
37.5°	1353.6	1370.4	1421.0	1454.7	1479.0
40°	1286.2	1304.9	1357.3	1396.7	1424.7
42.5°	1216.9	1237.5	1295.6	1340.5	1374.2
45°	1147.7	1168.2	1230.0	1286.2	1319.9
47.5°	1074.6	1099.0	1164.5	1230.0	1263.7
50°	1003.5	1029.7	1099.0	1170.1	1205.7
52.5°	932.4	962.3	1035.3	1110.2	1145.8
55°	861.2	889.3	969.8	1046.6	1084.0
57.5°	790.1	820.0	904.3	984.8	1024.1
60°	718.9	750.7	838.7	923.0	962.3
62.5°	645.9	679.6	773.2	861.2	900.5
65°	576.6	610.3	707.7	799.4	838.7
67.5°	505.5	542.9	644.0	737.6	778.8
70°	434.3	475.5	582.3	675.9	717.0
72.5°	363.2	410.0	518.6	612.2	642.2
75°	293.9	348.2	458.7	514.9	520.5
77.5°	230.3	286.4	391.3	413.8	425.0
80°	168.5	230.3	293.9	322.0	320.1
82.5°	112.3	176.0	211.6	215.3	211.6
85°	65.5	108.6	117.9	116.1	112.3
87.5°	28.1	43.1	37.4	31.8	26.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)