

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-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-LD5-55-UNV-L835-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

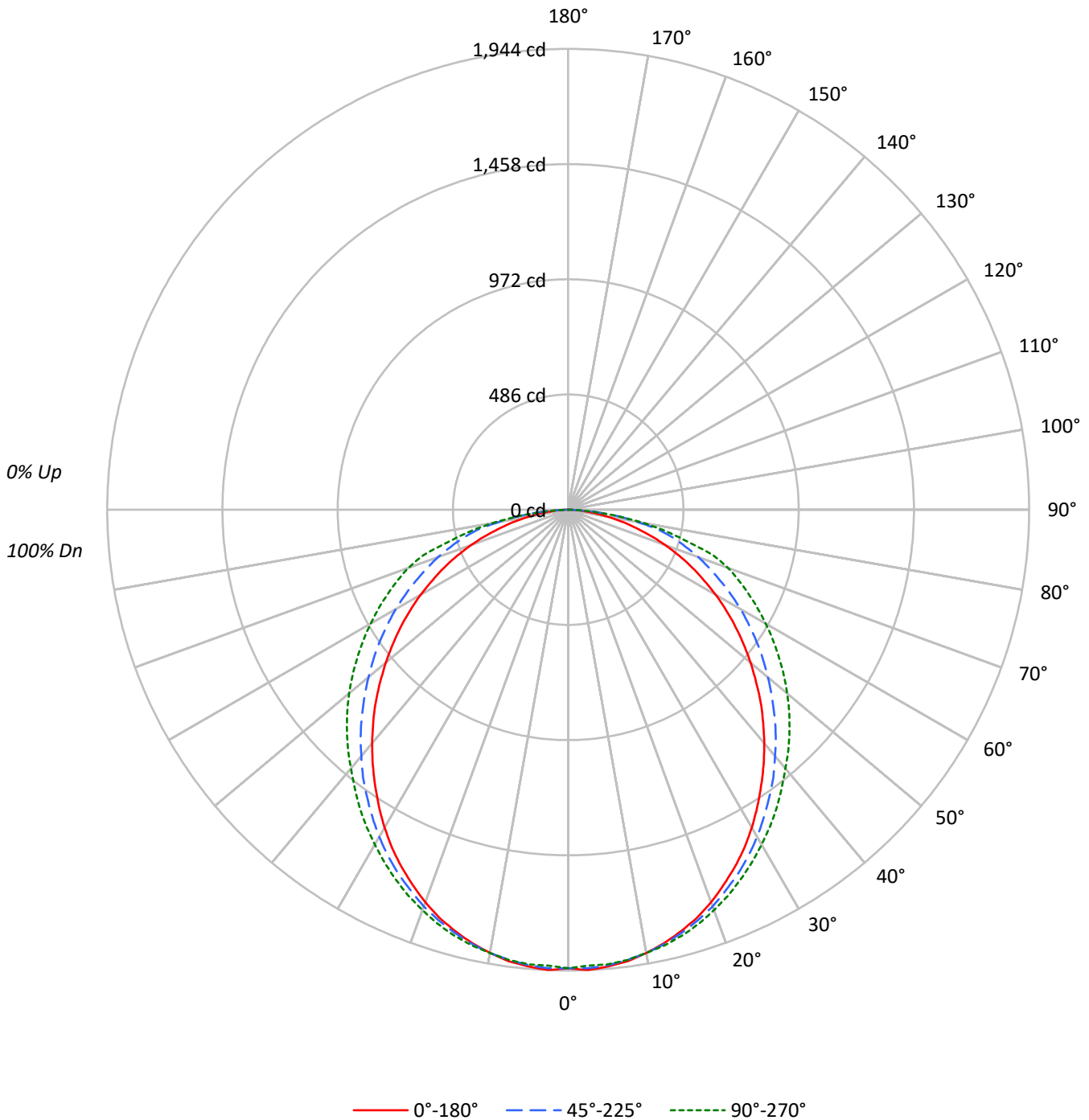
Lumens per Lamp: N/A
Luminaire Lumens: 5504.0 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

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°	2602	2602	2602
5°	2607	2593	2588
10°	2583	2570	2571
15°	2547	2538	2556
20°	2500	2501	2528
25°	2440	2455	2496
30°	2372	2402	2463
35°	2291	2343	2434
40°	2213	2283	2402
45°	2131	2223	2392
50°	2040	2164	2382
55°	1951	2115	2374
60°	1855	2067	2383
65°	1743	2023	2412
70°	1599	1999	2480
75°	1398	1991	2280
80°	1143	1751	1933
85°	786	1134	1103



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.9	3.3
10°-20°	520.6	9.5
20°-30°	778.2	14.1
30°-40°	922.8	16.8
40°-50°	949.0	17.2
50°-60°	868.0	15.8
60°-70°	700.1	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°	1481.7	26.9
0°-40°	2404.5	43.7
0°-60°	4221.5	76.7
0°-90°	5504.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5504.0	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	1856	1859	519
25°	1663	1663	1694	1708	1721	765
35°	1419	1432	1479	1509	1534	888
45°	1148	1168	1230	1286	1320	885
55°	861	889	970	1047	1084	770
65°	577	610	708	800	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°	1934.2	1934.2	1934.2	1934.2	1934.2
2.5°	1943.5	1928.5	1936.0	1932.3	1924.8
5°	1934.2	1921.1	1928.5	1924.8	1924.8
7.5°	1921.1	1907.9	1915.4	1915.4	1915.4
10°	1898.6	1887.3	1898.6	1898.6	1898.6
12.5°	1872.4	1863.0	1876.1	1878.0	1881.7
15°	1840.5	1831.2	1848.0	1855.5	1859.3
17.5°	1805.0	1797.5	1816.2	1825.6	1831.2
20°	1761.9	1756.3	1780.6	1790.0	1797.5
22.5°	1713.2	1713.2	1737.6	1748.8	1761.9
25°	1662.7	1662.7	1694.5	1707.6	1720.7
27.5°	1608.4	1610.2	1645.8	1664.5	1677.6
30°	1548.5	1555.9	1593.4	1615.9	1630.8
32.5°	1484.8	1494.2	1537.2	1565.3	1584.0
35°	1419.3	1432.4	1479.2	1509.1	1533.5
37.5°	1353.7	1370.6	1421.1	1454.8	1479.2
40°	1286.3	1305.0	1357.5	1396.8	1424.9
42.5°	1217.0	1237.6	1295.7	1340.6	1374.3
45°	1147.8	1168.4	1230.1	1286.3	1320.0
47.5°	1074.7	1099.1	1164.6	1230.1	1263.9
50°	1003.6	1029.8	1099.1	1170.2	1205.8
52.5°	932.4	962.4	1035.4	1110.3	1145.9
55°	861.3	889.4	969.9	1046.7	1084.1
57.5°	790.1	820.1	904.4	984.9	1024.2
60°	719.0	750.8	838.8	923.1	962.4
62.5°	646.0	679.7	773.3	861.3	900.6
65°	576.7	610.4	707.8	799.5	838.8
67.5°	505.5	543.0	644.1	737.7	778.9
70°	434.4	475.6	582.3	675.9	717.1
72.5°	363.2	410.0	518.6	612.3	642.2
75°	294.0	348.3	458.7	514.9	520.5
77.5°	230.3	286.5	391.3	413.8	425.0
80°	168.5	230.3	294.0	322.0	320.2
82.5°	112.3	176.0	211.6	215.3	211.6
85°	65.5	108.6	118.0	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)