

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-LD5-50SE-S-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 (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-50SE-S-UNV-L835-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

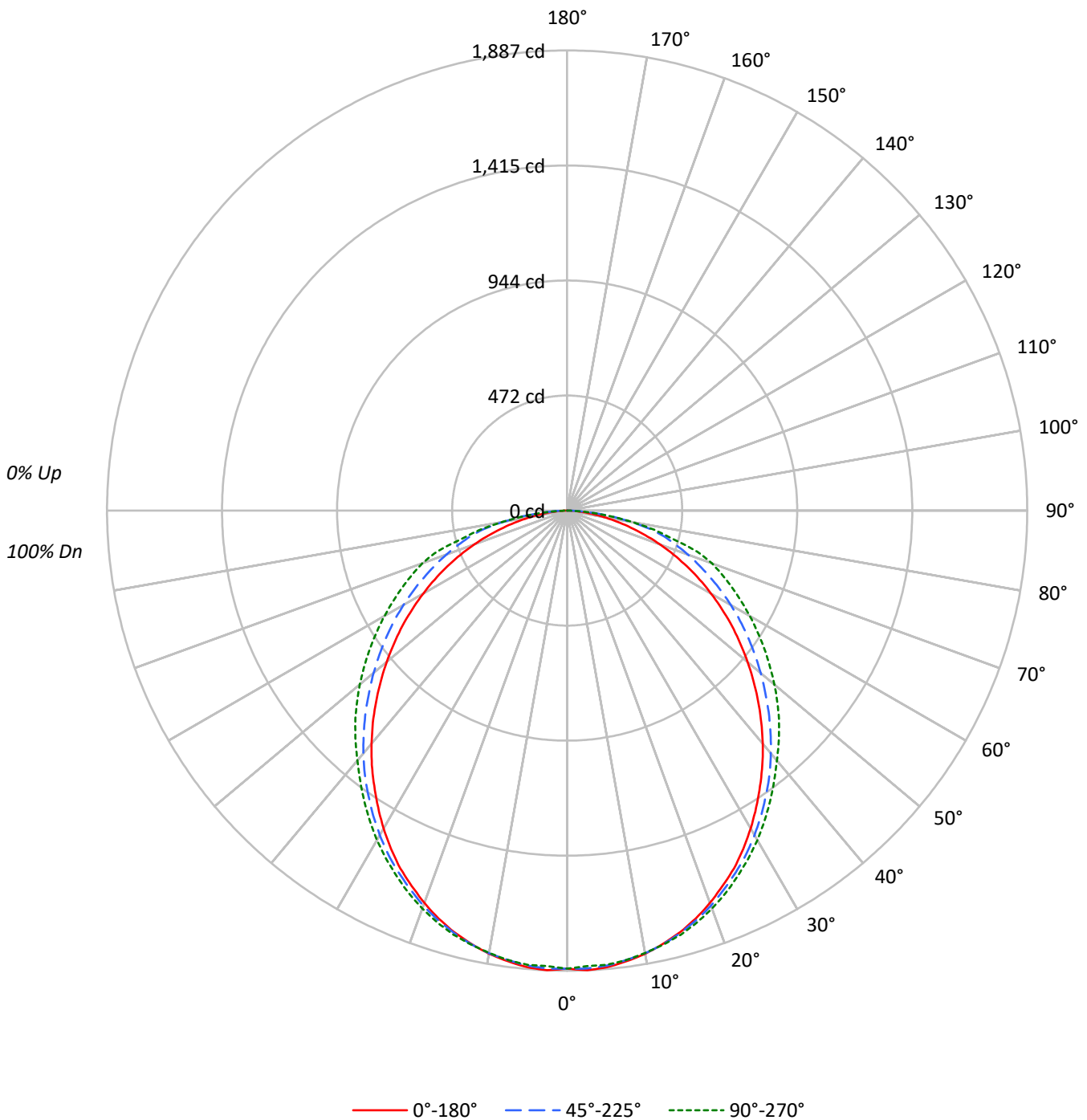
Lumens per Lamp: N/A
Luminaire Lumens: 5187.7 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 46.56
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	104	99	95	106	101	97	94	97	94	91		93	90	88		89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	35		46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2527	2527	2527
5°	2533	2518	2514
10°	2510	2495	2494
15°	2477	2463	2475
20°	2430	2422	2442
25°	2376	2371	2399
30°	2305	2316	2356
35°	2226	2253	2304
40°	2147	2186	2255
45°	2057	2112	2227
50°	1965	2039	2193
55°	1869	1972	2162
60°	1759	1910	2142
65°	1638	1850	2144
70°	1487	1808	2185
75°	1289	1790	1951
80°	1031	1563	1626
85°	684	1012	950



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.6	3.4
10°-20°	505.0	9.7
20°-30°	752.6	14.5
30°-40°	885.9	17.1
40°-50°	900.3	17.4
50°-60°	809.4	15.6
60°-70°	639.4	12.3
70°-80°	405.7	7.8
80°-90°	112.0	2.2
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°	1435.1	27.7
0°-40°	2321.0	44.7
0°-60°	4030.7	77.7
0°-90°	5187.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5187.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1878	1878	1878	1878	1878	
5°	1880	1864	1873	1869	1869	178
15°	1790	1781	1794	1799	1800	504
25°	1619	1617	1636	1647	1654	744
35°	1379	1388	1422	1438	1452	863
45°	1108	1124	1169	1203	1229	855
55°	825	846	904	963	987	737
65°	542	570	647	718	746	537
75°	271	318	412	449	445	288
85°	57	98	105	97	97	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1878.1	1878.1	1878.1	1878.1	1878.1
2.5°	1886.7	1872.9	1879.8	1876.3	1869.4
5°	1879.8	1864.2	1872.9	1869.4	1869.4
7.5°	1864.2	1852.2	1859.1	1857.3	1859.1
10°	1845.3	1833.2	1843.5	1843.5	1841.8
12.5°	1819.4	1809.0	1821.1	1821.1	1822.8
15°	1790.0	1781.4	1793.5	1798.6	1800.4
17.5°	1753.8	1745.1	1760.7	1765.9	1771.0
20°	1712.3	1708.9	1724.4	1729.6	1736.5
22.5°	1665.7	1665.7	1681.3	1688.2	1698.5
25°	1619.1	1617.4	1636.4	1646.7	1653.7
27.5°	1563.9	1565.6	1589.8	1600.1	1608.8
30°	1505.2	1508.7	1536.3	1548.4	1560.4
32.5°	1443.1	1450.0	1481.0	1494.8	1506.9
35°	1379.2	1387.8	1422.3	1437.9	1451.7
37.5°	1315.3	1327.4	1363.7	1379.2	1394.7
40°	1248.0	1258.4	1299.8	1318.8	1337.8
42.5°	1179.0	1192.8	1234.2	1261.8	1284.3
45°	1108.2	1123.7	1168.6	1203.1	1229.0
47.5°	1037.4	1058.1	1101.3	1147.9	1170.3
50°	966.6	987.4	1035.7	1087.5	1109.9
52.5°	894.1	914.9	970.1	1023.6	1047.8
55°	825.1	845.8	904.5	963.2	987.4
57.5°	752.6	775.0	840.6	901.0	925.2
60°	681.8	704.3	775.0	838.9	864.8
62.5°	612.8	636.9	711.2	778.5	804.4
65°	542.0	569.6	647.3	718.1	745.7
67.5°	473.0	504.0	585.2	659.4	688.7
70°	403.9	440.2	526.5	602.4	631.8
72.5°	336.6	376.3	467.8	543.7	559.3
75°	271.0	317.6	412.5	448.8	445.3
77.5°	208.9	260.6	350.4	357.3	367.7
80°	151.9	208.9	262.4	276.2	269.3
82.5°	100.1	157.1	188.2	181.2	179.5
85°	57.0	98.4	105.3	96.7	96.7
87.5°	24.2	39.7	34.5	25.9	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)