

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-S-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 (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-55-S-UNV-L830-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5284.8 lumens
Efficiency: N/A
Efficacy: 115.4 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

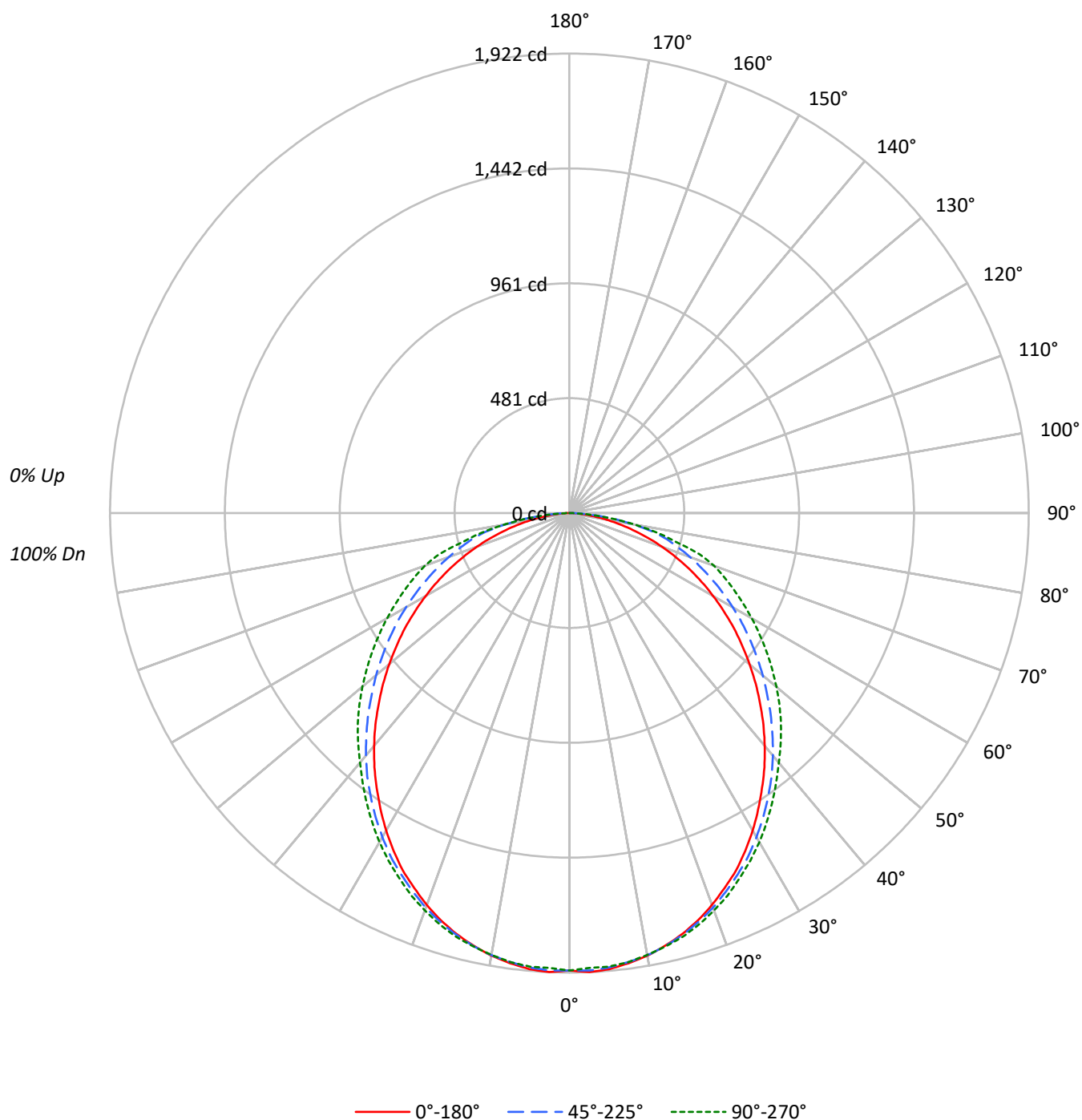
Input Watts (W): 45.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		50
5	76	63	53	47	73	61	53	47	59	52	46		57	51	45		43
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	35		33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		27
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2574	2574	2574
5°	2581	2565	2561
10°	2557	2542	2541
15°	2523	2509	2521
20°	2475	2468	2488
25°	2420	2415	2444
30°	2348	2359	2400
35°	2268	2295	2347
40°	2187	2227	2297
45°	2096	2151	2269
50°	2002	2077	2234
55°	1904	2009	2202
60°	1791	1946	2182
65°	1668	1885	2184
70°	1514	1841	2226
75°	1313	1824	1988
80°	1051	1592	1656
85°	696	1031	968



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.9	3.4
10°-20°	514.4	9.7
20°-30°	766.6	14.5
30°-40°	902.5	17.1
40°-50°	917.1	17.4
50°-60°	824.5	15.6
60°-70°	651.4	12.3
70°-80°	413.3	7.8
80°-90°	114.1	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°	1462.0	27.7
0°-40°	2364.4	44.7
0°-60°	4106.0	77.7
0°-90°	5284.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5284.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1913	1913	1913	1913	1913	
5°	1915	1899	1908	1904	1904	182
15°	1824	1815	1827	1832	1834	514
25°	1649	1648	1667	1678	1684	758
35°	1405	1414	1449	1465	1479	879
45°	1129	1145	1190	1226	1252	871
55°	841	862	921	981	1006	751
65°	552	580	659	732	760	547
75°	276	324	420	457	454	294
85°	58	100	107	98	98	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1913.2	1913.2	1913.2	1913.2	1913.2
2.5°	1921.9	1907.9	1914.9	1911.4	1904.4
5°	1914.9	1899.1	1907.9	1904.4	1904.4
7.5°	1899.1	1886.8	1893.8	1892.1	1893.8
10°	1879.8	1867.4	1878.0	1878.0	1876.2
12.5°	1853.4	1842.8	1855.2	1855.2	1856.9
15°	1823.5	1814.7	1827.0	1832.3	1834.1
17.5°	1786.6	1777.7	1793.6	1798.9	1804.1
20°	1744.4	1740.9	1756.6	1762.0	1769.0
22.5°	1696.9	1696.9	1712.8	1719.8	1730.3
25°	1649.4	1647.7	1667.0	1677.5	1684.5
27.5°	1593.1	1594.9	1619.6	1630.1	1638.8
30°	1533.4	1536.9	1565.0	1577.3	1589.6
32.5°	1470.0	1477.1	1508.7	1522.8	1535.1
35°	1405.0	1413.8	1448.9	1464.8	1478.9
37.5°	1339.9	1352.2	1389.2	1405.0	1420.8
40°	1271.4	1281.9	1324.1	1343.4	1362.8
42.5°	1201.0	1215.0	1257.3	1285.4	1308.2
45°	1128.9	1144.8	1190.4	1225.6	1252.0
47.5°	1056.8	1078.0	1121.9	1169.4	1192.2
50°	984.7	1005.9	1055.1	1107.8	1130.7
52.5°	910.9	932.0	988.3	1042.7	1067.3
55°	840.6	861.6	921.4	981.2	1005.9
57.5°	766.6	789.5	856.3	917.9	942.5
60°	694.5	717.4	789.5	854.6	880.9
62.5°	624.2	648.8	724.5	793.1	819.5
65°	552.1	580.3	659.4	731.5	759.6
67.5°	481.8	513.5	596.1	671.7	701.6
70°	411.4	448.4	536.3	613.7	643.6
72.5°	342.9	383.3	476.5	553.9	569.7
75°	276.1	323.6	420.3	457.2	453.7
77.5°	212.8	265.5	356.9	364.0	374.6
80°	154.8	212.8	267.2	281.4	274.4
82.5°	102.0	160.0	191.7	184.7	182.9
85°	58.0	100.2	107.3	98.5	98.5
87.5°	24.6	40.5	35.2	26.4	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)