

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-LD5-70-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-LD5-70-S-UNV-L830-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6801.8 lumens
Efficiency: N/A
Efficacy: 105.9 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

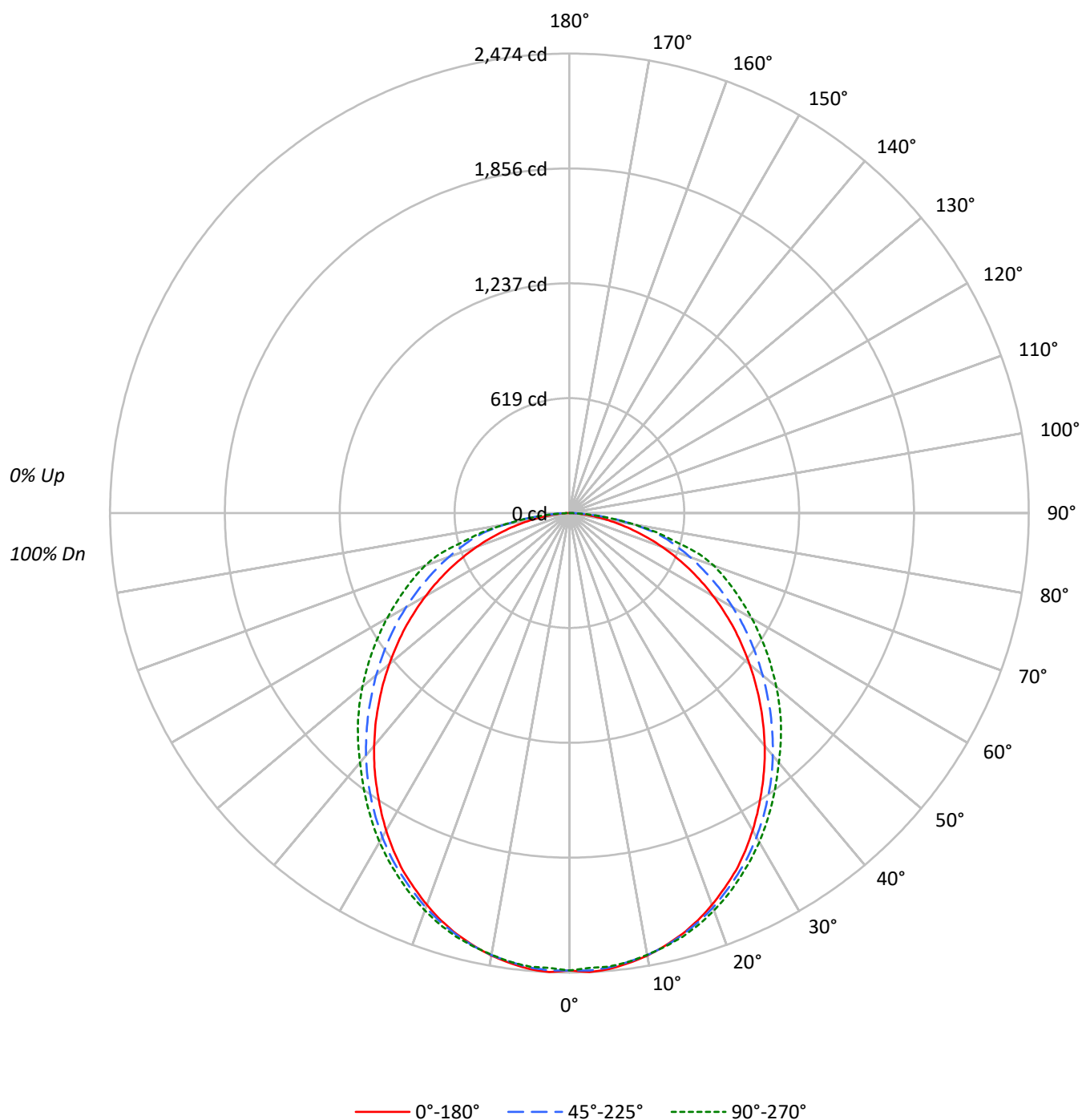
Input Watts (W): 64.22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-70-S-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-70-S-UNV-L830-CD1-U

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°	3313	3313	3313
5°	3322	3301	3296
10°	3291	3272	3270
15°	3248	3229	3245
20°	3186	3176	3202
25°	3115	3108	3146
30°	3022	3037	3089
35°	2919	2953	3020
40°	2815	2866	2957
45°	2697	2769	2920
50°	2576	2673	2875
55°	2450	2586	2834
60°	2306	2505	2808
65°	2148	2426	2811
70°	1950	2370	2865
75°	1689	2347	2558
80°	1351	2049	2131
85°	897	1326	1245



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-70-S-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.8	3.4
10°-20°	662.1	9.7
20°-30°	986.7	14.5
30°-40°	1161.5	17.1
40°-50°	1180.4	17.4
50°-60°	1061.2	15.6
60°-70°	838.4	12.3
70°-80°	531.9	7.8
80°-90°	146.8	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°	1881.6	27.7
0°-40°	3043.1	44.7
0°-60°	5284.7	77.7
0°-90°	6801.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6801.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2462	2462	2462	2462	2462	
5°	2465	2444	2456	2451	2451	234
15°	2347	2336	2351	2358	2361	661
25°	2123	2121	2146	2159	2168	976
35°	1808	1820	1865	1885	1903	1131
45°	1453	1473	1532	1578	1611	1121
55°	1082	1109	1186	1263	1295	966
65°	711	747	849	941	978	704
75°	355	416	541	588	584	378
85°	75	129	138	127	127	92
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-70-S-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2462.4	2462.4	2462.4	2462.4	2462.4
2.5°	2473.7	2455.6	2464.7	2460.1	2451.1
5°	2464.7	2444.3	2455.6	2451.1	2451.1
7.5°	2444.3	2428.4	2437.5	2435.2	2437.5
10°	2419.4	2403.5	2417.1	2417.1	2414.8
12.5°	2385.4	2371.9	2387.7	2387.7	2389.9
15°	2347.0	2335.7	2351.4	2358.3	2360.6
17.5°	2299.4	2288.1	2308.5	2315.2	2322.1
20°	2245.1	2240.6	2260.9	2267.7	2276.8
22.5°	2184.0	2184.0	2204.4	2213.4	2227.0
25°	2122.9	2120.6	2145.6	2159.1	2168.2
27.5°	2050.5	2052.8	2084.4	2098.0	2109.3
30°	1973.5	1978.1	2014.3	2030.2	2045.9
32.5°	1892.0	1901.1	1941.8	1959.9	1975.8
35°	1808.3	1819.6	1864.8	1885.3	1903.3
37.5°	1724.5	1740.4	1787.9	1808.3	1828.7
40°	1636.3	1649.9	1704.2	1729.1	1754.0
42.5°	1545.7	1563.9	1618.2	1654.4	1683.9
45°	1453.0	1473.4	1532.2	1577.5	1611.4
47.5°	1360.2	1387.4	1443.9	1505.1	1534.4
50°	1267.4	1294.6	1357.9	1425.9	1455.2
52.5°	1172.3	1199.5	1272.0	1342.1	1373.8
55°	1081.9	1108.9	1185.9	1262.8	1294.6
57.5°	986.8	1016.2	1102.2	1181.4	1213.1
60°	894.0	923.4	1016.2	1099.9	1133.8
62.5°	803.4	835.1	932.4	1020.7	1054.7
65°	710.7	746.9	848.7	941.4	977.7
67.5°	620.2	660.8	767.2	864.6	903.1
70°	529.6	577.1	690.3	789.8	828.3
72.5°	441.4	493.3	613.3	712.9	733.3
75°	355.3	416.4	540.9	588.4	583.9
77.5°	273.9	341.7	459.4	468.4	482.0
80°	199.1	273.9	344.0	362.1	353.0
82.5°	131.3	206.0	246.7	237.6	235.4
85°	74.7	129.0	138.0	126.7	126.7
87.5°	31.7	52.1	45.2	33.9	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)