

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-LD5-65-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 (P25689)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-65-UNV-L830-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

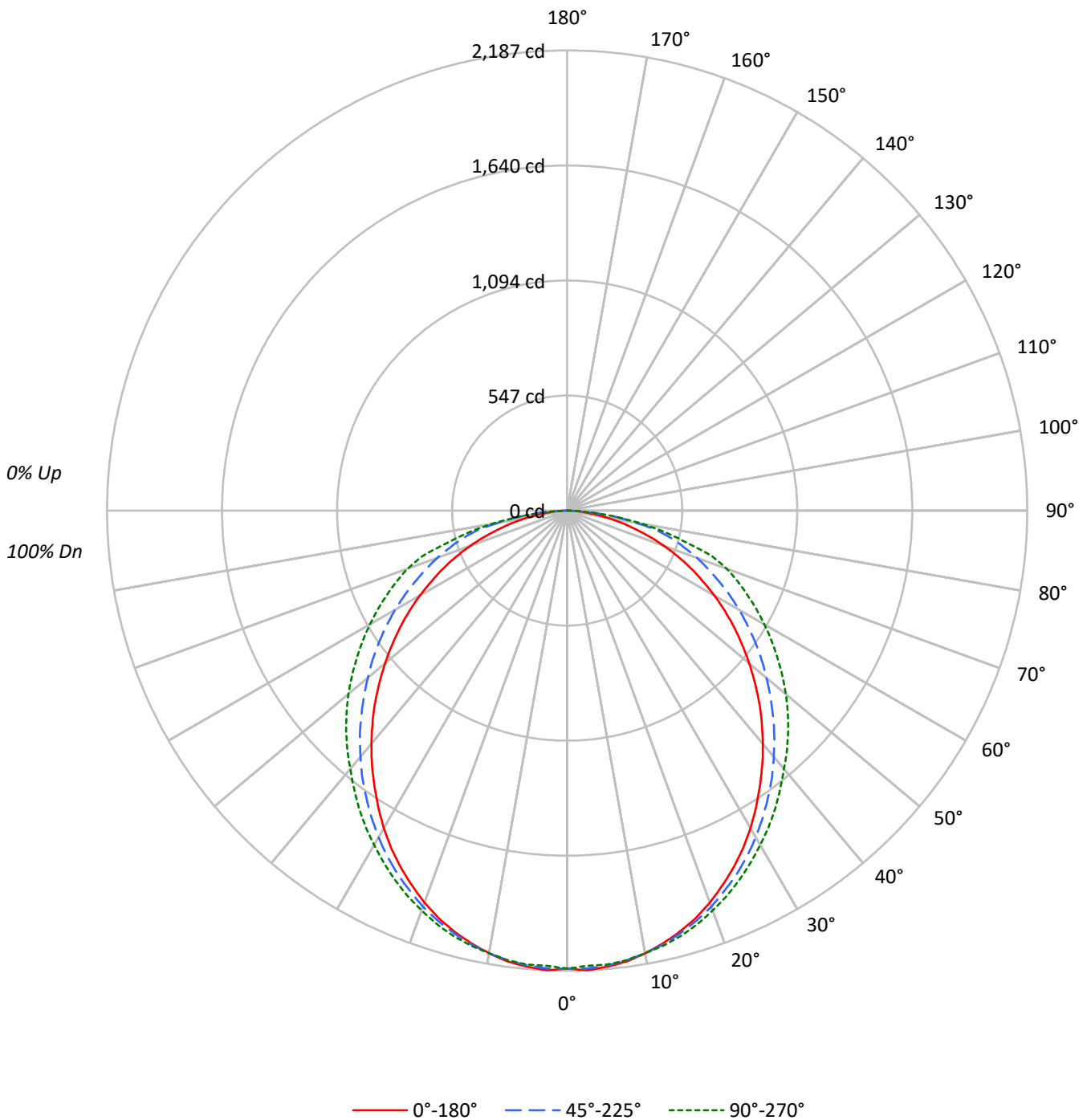
Lumens per Lamp: N/A
Luminaire Lumens: 6193.0 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 57.64
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-LD5-65-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-65-UNV-L830-CD1-U

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°	2928	2928	2928
5°	2933	2917	2912
10°	2906	2892	2893
15°	2866	2856	2876
20°	2813	2815	2844
25°	2745	2762	2809
30°	2668	2703	2771
35°	2578	2636	2738
40°	2490	2568	2702
45°	2397	2501	2692
50°	2295	2435	2680
55°	2195	2380	2671
60°	2087	2326	2682
65°	1960	2277	2714
70°	1799	2250	2791
75°	1573	2240	2566
80°	1287	1971	2174
85°	885	1275	1242



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-65-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.8	3.3
10°-20°	585.8	9.5
20°-30°	875.6	14.1
30°-40°	1038.3	16.8
40°-50°	1067.8	17.2
50°-60°	976.7	15.8
60°-70°	787.7	12.7
70°-80°	511.4	8.3
80°-90°	143.9	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°	1667.2	26.9
0°-40°	2705.5	43.7
0°-60°	4750.0	76.7
0°-90°	6193.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6193.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2176	2176	2176	2176	2176	
5°	2176	2162	2170	2166	2166	207
15°	2071	2060	2079	2088	2092	584
25°	1871	1871	1907	1921	1936	861
35°	1597	1612	1664	1698	1726	999
45°	1291	1315	1384	1447	1485	995
55°	969	1001	1091	1178	1220	867
65°	649	687	796	900	944	642
75°	331	392	516	579	586	353
85°	74	122	133	131	126	89
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-65-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2176.3	2176.3	2176.3	2176.3	2176.3
2.5°	2186.8	2170.0	2178.4	2174.2	2165.8
5°	2176.3	2161.5	2170.0	2165.8	2165.8
7.5°	2161.5	2146.8	2155.3	2155.3	2155.3
10°	2136.3	2123.6	2136.3	2136.3	2136.3
12.5°	2106.8	2096.3	2111.0	2113.1	2117.3
15°	2071.0	2060.5	2079.4	2087.8	2092.0
17.5°	2030.9	2022.6	2043.5	2054.1	2060.5
20°	1982.5	1976.2	2003.6	2014.1	2022.6
22.5°	1927.7	1927.7	1955.1	1967.7	1982.5
25°	1870.8	1870.8	1906.6	1921.4	1936.1
27.5°	1809.8	1811.8	1851.8	1872.9	1887.6
30°	1742.3	1750.8	1792.8	1818.1	1835.0
32.5°	1670.7	1681.2	1729.7	1761.3	1782.3
35°	1596.9	1611.7	1664.4	1698.0	1725.5
37.5°	1523.2	1542.1	1599.0	1636.9	1664.4
40°	1447.3	1468.4	1527.4	1571.7	1603.2
42.5°	1369.4	1392.6	1457.9	1508.4	1546.4
45°	1291.4	1314.6	1384.1	1447.3	1485.3
47.5°	1209.3	1236.7	1310.4	1384.1	1422.1
50°	1129.3	1158.7	1236.7	1316.7	1356.8
52.5°	1049.2	1082.9	1165.1	1249.3	1289.3
55°	969.1	1000.7	1091.3	1177.7	1219.8
57.5°	889.1	922.7	1017.5	1108.2	1152.4
60°	809.0	844.8	943.8	1038.6	1082.9
62.5°	726.8	764.8	870.1	969.1	1013.4
65°	648.8	686.8	796.4	899.6	943.8
67.5°	568.9	610.9	724.8	830.1	876.4
70°	488.8	535.1	655.2	760.6	806.9
72.5°	408.7	461.4	583.6	688.9	722.7
75°	330.8	391.9	516.1	579.4	585.7
77.5°	259.2	322.3	440.3	465.6	478.2
80°	189.6	259.2	330.8	362.3	360.2
82.5°	126.4	198.1	238.1	242.2	238.1
85°	73.7	122.2	132.7	130.6	126.4
87.5°	31.6	48.4	42.2	35.8	29.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)