

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-LD5-60SE-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-LD5-60SE-UNV-L830-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5611.3 lumens
Efficiency: N/A
Efficacy: 93.5 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

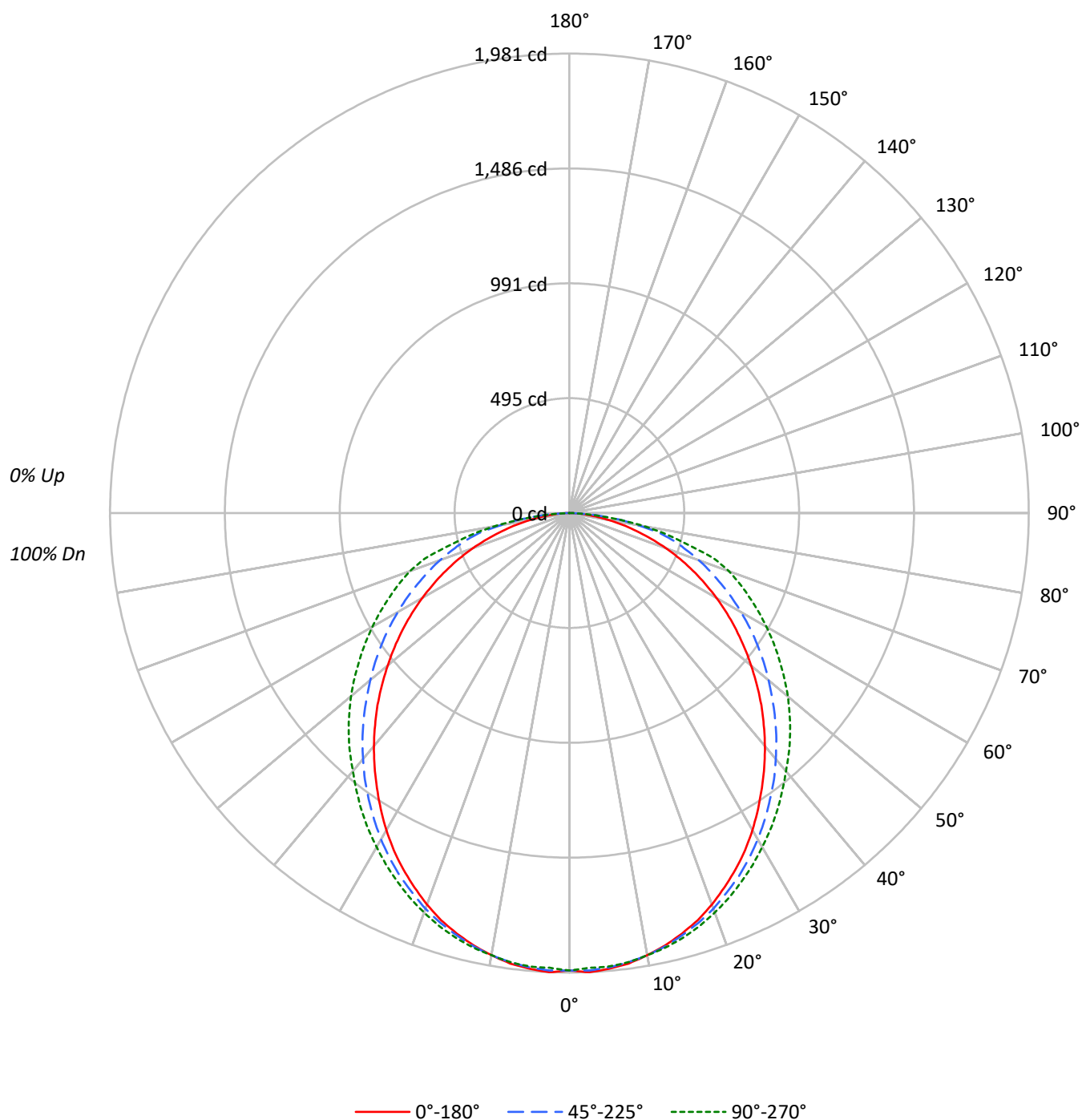
Input Watts (W): 60
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	106	101	97	93		97	93	90		93	90	88		89	87	85
2	98	90	83	77	96	88	81	76		84	79	74		81	76	72		78	74	71
3	89	79	70	63	87	77	69	63		74	67	62		71	65	61		69	64	60
4	82	69	60	54	79	68	60	53		66	58	52		63	57	52		61	56	51
5	75	62	53	46	73	61	52	46		59	51	45		57	50	45		55	49	44
6	69	56	47	40	67	55	46	40		53	45	40		51	44	39		50	44	39
7	64	51	42	35	63	50	41	35		48	41	35		47	40	35		45	39	35
8	60	46	38	32	58	45	37	32		44	37	31		43	36	31		42	36	31
9	56	42	34	28	55	42	34	28		41	33	28		40	33	28		39	32	28
10	52	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2653	2653	2653
5°	2657	2643	2639
10°	2633	2620	2621
15°	2596	2588	2605
20°	2549	2550	2577
25°	2488	2503	2545
30°	2418	2449	2511
35°	2336	2388	2481
40°	2256	2327	2449
45°	2172	2266	2439
50°	2080	2206	2428
55°	1989	2156	2420
60°	1891	2108	2430
65°	1777	2062	2459
70°	1630	2039	2529
75°	1425	2030	2325
80°	1166	1785	1970
85°	802	1156	1126



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.5	3.3
10°-20°	530.7	9.5
20°-30°	793.4	14.1
30°-40°	940.8	16.8
40°-50°	967.5	17.2
50°-60°	885.0	15.8
60°-70°	713.7	12.7
70°-80°	463.4	8.3
80°-90°	130.4	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°	1510.6	26.9
0°-40°	2451.3	43.7
0°-60°	4303.8	76.7
0°-90°	5611.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5611.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1972	1972	1972	1972	1972	
5°	1972	1958	1966	1962	1962	187
15°	1876	1867	1884	1892	1896	529
25°	1695	1695	1728	1741	1754	780
35°	1447	1460	1508	1538	1563	905
45°	1170	1191	1254	1311	1346	902
55°	878	907	989	1067	1105	785
65°	588	622	722	815	855	581
75°	300	355	468	525	531	320
85°	67	111	120	118	115	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1971.9	1971.9	1971.9	1971.9	1971.9
2.5°	1981.4	1966.1	1973.8	1969.9	1962.3
5°	1971.9	1958.5	1966.1	1962.3	1962.3
7.5°	1958.5	1945.1	1952.8	1952.8	1952.8
10°	1935.6	1924.1	1935.6	1935.6	1935.6
12.5°	1908.8	1899.3	1912.7	1914.6	1918.4
15°	1876.4	1866.8	1884.0	1891.7	1895.5
17.5°	1840.2	1832.6	1851.6	1861.1	1866.8
20°	1796.3	1790.6	1815.4	1824.9	1832.6
22.5°	1746.6	1746.6	1771.5	1782.9	1796.3
25°	1695.1	1695.1	1727.6	1740.9	1754.3
27.5°	1639.7	1641.6	1677.9	1697.0	1710.4
30°	1578.6	1586.3	1624.5	1647.4	1662.6
32.5°	1513.7	1523.3	1567.2	1595.8	1614.9
35°	1446.9	1460.2	1508.0	1538.5	1563.4
37.5°	1380.2	1397.3	1448.8	1483.2	1508.0
40°	1311.4	1330.5	1384.0	1424.0	1452.6
42.5°	1240.8	1261.8	1321.0	1366.8	1401.2
45°	1170.1	1191.1	1254.1	1311.4	1345.8
47.5°	1095.7	1120.5	1187.3	1254.1	1288.5
50°	1023.2	1049.8	1120.5	1193.0	1229.3
52.5°	950.7	981.2	1055.6	1131.9	1168.2
55°	878.1	906.7	988.8	1067.0	1105.2
57.5°	805.5	836.1	922.0	1004.1	1044.1
60°	733.0	765.4	855.2	941.1	981.2
62.5°	658.5	692.9	788.4	878.1	918.2
65°	588.0	622.2	721.5	815.1	855.2
67.5°	515.4	553.6	656.6	752.1	794.1
70°	442.9	484.9	593.7	689.1	731.1
72.5°	370.3	418.0	528.8	624.2	654.7
75°	299.7	355.0	467.7	525.0	530.7
77.5°	234.7	292.0	399.0	421.9	433.3
80°	171.8	234.7	299.7	328.3	326.4
82.5°	114.6	179.5	215.7	219.5	215.7
85°	66.8	110.7	120.3	118.4	114.6
87.5°	28.6	43.9	38.2	32.5	26.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)