

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-LD5-60-S-UNV-L850-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-LD5-60-S-UNV-L850-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6863.9 lumens
Efficiency: N/A
Efficacy: 131.6 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

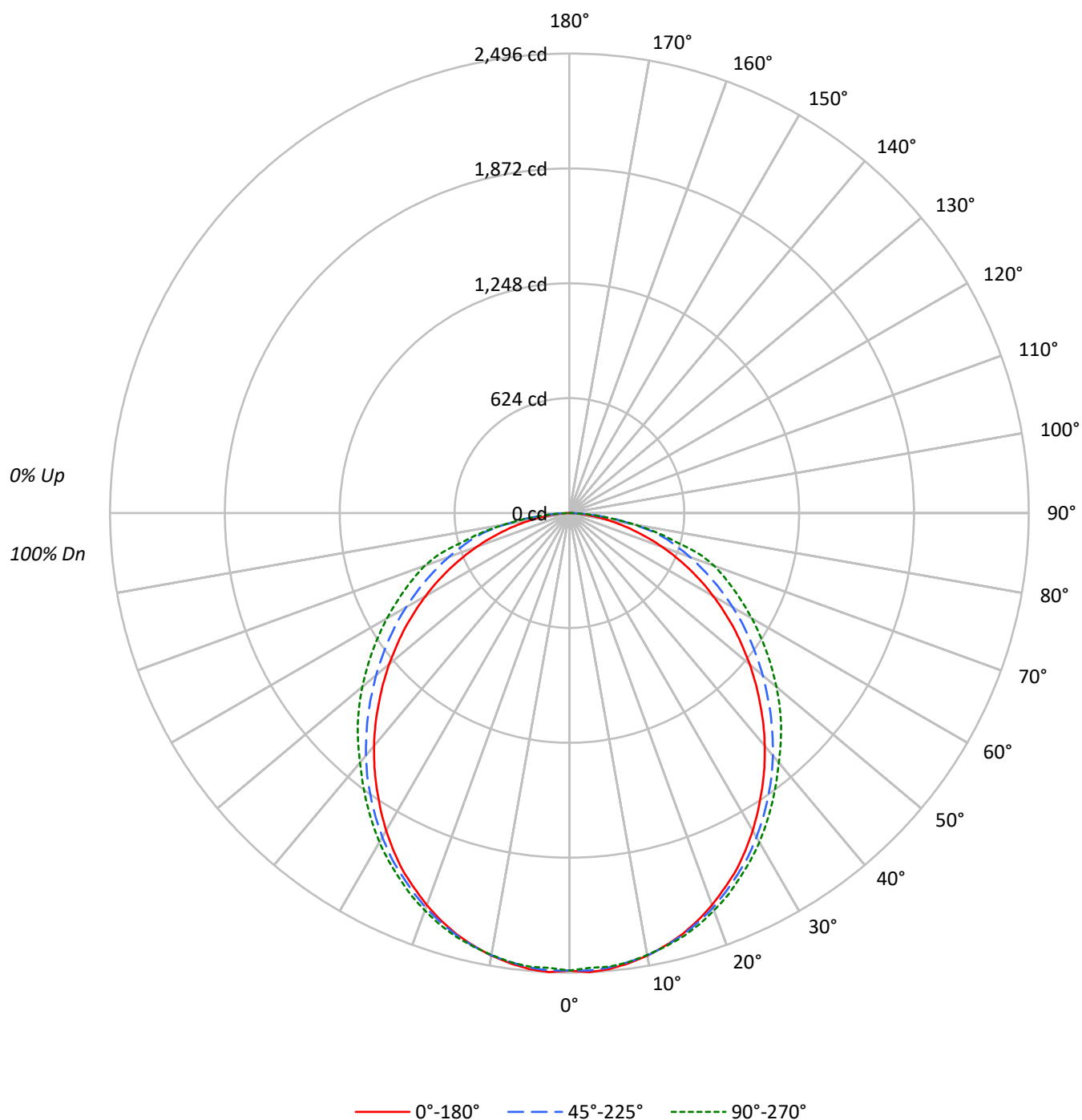
Input Watts (W): 52.17
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		89
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		78
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	76	63	53	47	73	61	53	47	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	41	35		46
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		39
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3343	3343	3343
5°	3352	3331	3326
10°	3321	3302	3300
15°	3277	3259	3274
20°	3215	3205	3231
25°	3144	3137	3174
30°	3050	3064	3118
35°	2946	2980	3048
40°	2841	2892	2984
45°	2722	2794	2947
50°	2600	2698	2901
55°	2473	2610	2860
60°	2327	2527	2834
65°	2167	2448	2837
70°	1967	2392	2891
75°	1705	2369	2581
80°	1364	2068	2151
85°	905	1339	1256



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.9	3.4
10°-20°	668.2	9.7
20°-30°	995.7	14.5
30°-40°	1172.1	17.1
40°-50°	1191.1	17.4
50°-60°	1070.9	15.6
60°-70°	846.0	12.3
70°-80°	536.7	7.8
80°-90°	148.1	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°	1898.8	27.7
0°-40°	3070.9	44.7
0°-60°	5333.0	77.7
0°-90°	6863.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6863.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2485	2485	2485	2485	2485	
5°	2487	2467	2478	2473	2473	236
15°	2368	2357	2373	2380	2382	667
25°	2142	2140	2165	2179	2188	985
35°	1825	1836	1882	1902	1921	1142
45°	1466	1487	1546	1592	1626	1131
55°	1092	1119	1197	1274	1306	975
65°	717	754	856	950	987	710
75°	359	420	546	594	589	382
85°	75	130	139	128	128	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2484.8	2484.8	2484.8	2484.8	2484.8
2.5°	2496.3	2478.0	2487.1	2482.6	2473.4
5°	2487.1	2466.6	2478.0	2473.4	2473.4
7.5°	2466.6	2450.6	2459.7	2457.4	2459.7
10°	2441.5	2425.5	2439.2	2439.2	2436.9
12.5°	2407.2	2393.5	2409.5	2409.5	2411.8
15°	2368.4	2357.0	2372.9	2379.8	2382.1
17.5°	2320.4	2309.0	2329.5	2336.4	2343.3
20°	2265.6	2261.0	2281.6	2288.4	2297.6
22.5°	2203.9	2203.9	2224.5	2233.6	2247.3
25°	2142.3	2140.0	2165.1	2178.8	2187.9
27.5°	2069.2	2071.5	2103.4	2117.1	2128.6
30°	1991.5	1996.1	2032.6	2048.6	2064.6
32.5°	1909.3	1918.5	1959.6	1977.8	1993.8
35°	1824.8	1836.2	1881.9	1902.5	1920.7
37.5°	1740.3	1756.3	1804.3	1824.8	1845.4
40°	1651.2	1664.9	1719.8	1744.9	1770.0
42.5°	1559.9	1578.2	1633.0	1669.5	1699.2
45°	1466.2	1486.8	1546.2	1591.9	1626.1
47.5°	1372.6	1400.0	1457.1	1518.8	1548.5
50°	1279.0	1306.4	1370.3	1438.8	1468.5
52.5°	1183.0	1210.5	1283.5	1354.3	1386.3
55°	1091.7	1119.1	1196.7	1274.4	1306.4
57.5°	995.8	1025.5	1112.2	1192.2	1224.2
60°	902.1	931.8	1025.5	1110.0	1144.2
62.5°	810.8	842.7	941.0	1030.0	1064.3
65°	717.1	753.7	856.5	950.1	986.6
67.5°	625.8	666.9	774.2	872.4	911.3
70°	534.4	582.4	696.6	797.1	835.9
72.5°	445.4	497.9	618.9	719.4	740.0
75°	358.6	420.2	545.8	593.8	589.2
77.5°	276.3	344.9	463.6	472.8	486.5
80°	201.0	276.3	347.1	365.4	356.3
82.5°	132.5	207.8	248.9	239.8	237.5
85°	75.4	130.2	139.3	127.9	127.9
87.5°	32.0	52.5	45.7	34.3	32.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)