

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-L835-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-L835-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7225.7 lumens
Efficiency: N/A
Efficacy: 112.5 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

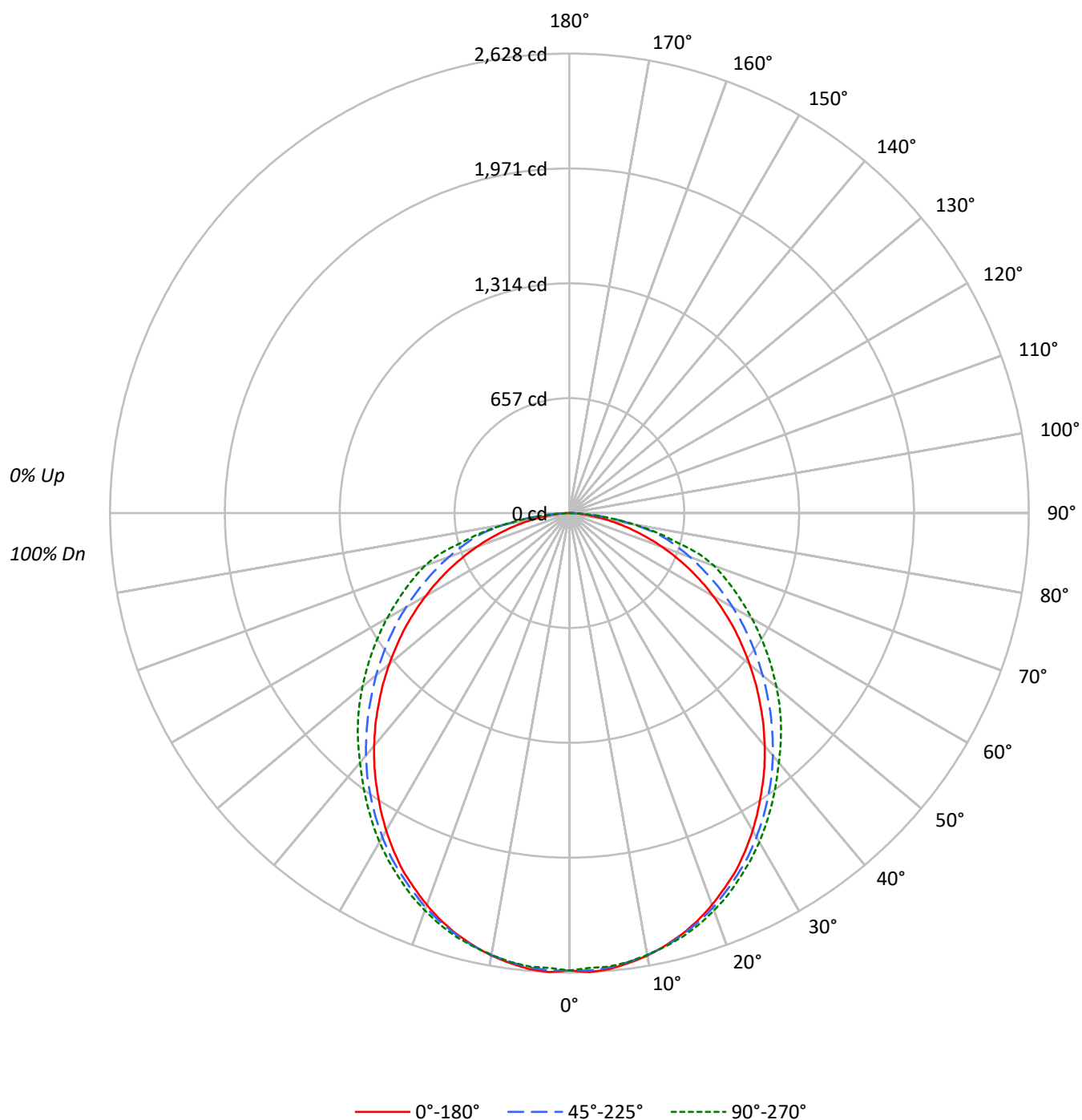
Input Watts (W): 64.22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83		
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69		
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58		
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50		
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30		
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27		
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3520	3520	3520
5°	3528	3507	3501
10°	3496	3476	3474
15°	3450	3431	3447
20°	3384	3374	3401
25°	3309	3302	3342
30°	3211	3226	3282
35°	3101	3138	3209
40°	2990	3044	3141
45°	2865	2941	3102
50°	2737	2840	3054
55°	2603	2747	3011
60°	2450	2661	2983
65°	2281	2577	2986
70°	2071	2518	3044
75°	1795	2494	2718
80°	1436	2177	2264
85°	952	1410	1322



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.3	3.4
10°-20°	703.4	9.7
20°-30°	1048.2	14.5
30°-40°	1233.9	17.1
40°-50°	1253.9	17.4
50°-60°	1127.4	15.6
60°-70°	890.6	12.3
70°-80°	565.0	7.8
80°-90°	155.9	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°	1998.9	27.7
0°-40°	3232.8	44.7
0°-60°	5614.1	77.7
0°-90°	7225.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7225.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2616	2616	2616	2616	2616	
5°	2618	2597	2609	2604	2604	248
15°	2493	2481	2498	2505	2508	702
25°	2255	2253	2279	2294	2303	1037
35°	1921	1933	1981	2003	2022	1202
45°	1544	1565	1628	1676	1712	1191
55°	1149	1178	1260	1342	1375	1026
65°	755	793	902	1000	1039	748
75°	378	442	575	625	620	402
85°	79	137	147	135	135	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2615.8	2615.8	2615.8	2615.8	2615.8
2.5°	2627.9	2608.6	2618.2	2613.4	2603.8
5°	2618.2	2596.6	2608.6	2603.8	2603.8
7.5°	2596.6	2579.8	2589.4	2587.0	2589.4
10°	2570.1	2553.3	2567.7	2567.7	2565.3
12.5°	2534.1	2519.7	2536.5	2536.5	2538.9
15°	2493.2	2481.2	2498.0	2505.2	2507.6
17.5°	2442.7	2430.7	2452.3	2459.6	2466.8
20°	2385.0	2380.2	2401.9	2409.1	2418.7
22.5°	2320.1	2320.1	2341.7	2351.4	2365.8
25°	2255.2	2252.8	2279.2	2293.7	2303.3
27.5°	2178.3	2180.7	2214.3	2228.7	2240.8
30°	2096.5	2101.3	2139.8	2156.6	2173.4
32.5°	2010.0	2019.6	2062.9	2082.1	2098.9
35°	1921.0	1933.0	1981.1	2002.7	2022.0
37.5°	1832.0	1848.9	1899.4	1921.0	1942.6
40°	1738.3	1752.7	1810.4	1836.9	1863.3
42.5°	1642.1	1661.3	1719.0	1757.5	1788.8
45°	1543.5	1565.2	1627.7	1675.8	1711.8
47.5°	1445.0	1473.8	1533.9	1598.8	1630.1
50°	1346.4	1375.2	1442.6	1514.7	1545.9
52.5°	1245.4	1274.3	1351.2	1425.7	1459.4
55°	1149.2	1178.1	1259.8	1341.6	1375.2
57.5°	1048.3	1079.5	1170.9	1255.0	1288.7
60°	949.7	980.9	1079.5	1168.5	1204.5
62.5°	853.5	887.2	990.6	1084.3	1120.4
65°	754.9	793.4	901.6	1000.2	1038.6
67.5°	658.8	702.0	815.0	918.4	959.3
70°	562.6	613.1	733.3	839.1	880.0
72.5°	468.8	524.1	651.6	757.3	779.0
75°	377.5	442.4	574.6	625.1	620.3
77.5°	290.9	363.0	488.1	497.7	512.1
80°	211.6	290.9	365.4	384.7	375.1
82.5°	139.4	218.8	262.1	252.4	250.0
85°	79.3	137.0	146.7	134.6	134.6
87.5°	33.7	55.3	48.1	36.1	33.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)