

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-LD5-75-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-LD5-75-S-UNV-L830-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7192.6 lumens
Efficiency: N/A
Efficacy: 104.1 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

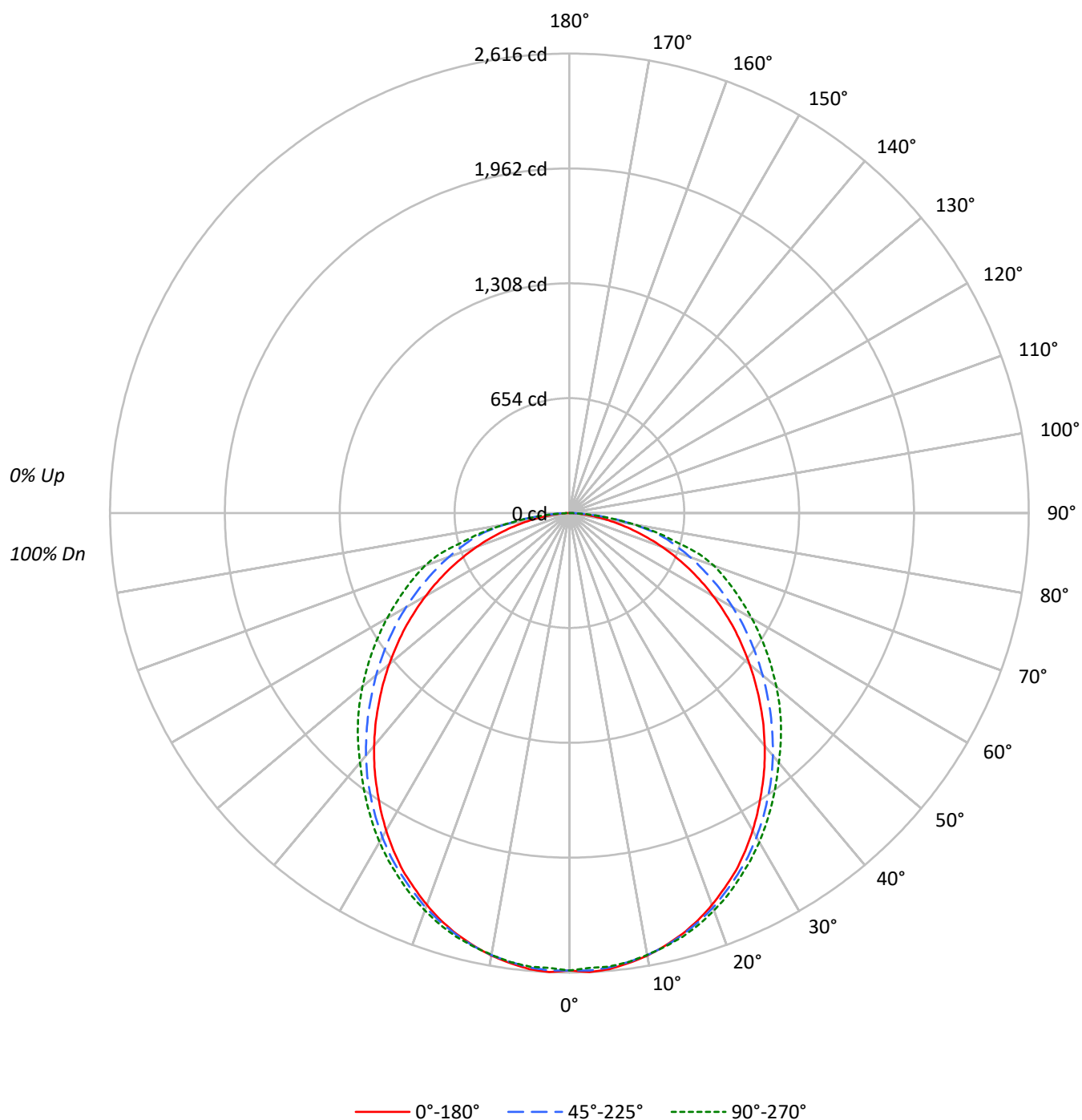
Input Watts (W): 69.06
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3504	3504	3504
5°	3512	3491	3485
10°	3480	3460	3458
15°	3434	3415	3431
20°	3369	3359	3386
25°	3294	3287	3326
30°	3196	3211	3267
35°	3087	3123	3194
40°	2977	3031	3127
45°	2852	2928	3088
50°	2724	2827	3040
55°	2591	2735	2997
60°	2438	2648	2969
65°	2271	2566	2973
70°	2061	2507	3030
75°	1786	2482	2705
80°	1429	2167	2253
85°	947	1403	1316



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.2	3.4
10°-20°	700.1	9.7
20°-30°	1043.4	14.5
30°-40°	1228.3	17.1
40°-50°	1248.2	17.4
50°-60°	1122.2	15.6
60°-70°	886.5	12.3
70°-80°	562.4	7.8
80°-90°	155.2	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°	1989.7	27.7
0°-40°	3218.0	44.7
0°-60°	5588.4	77.7
0°-90°	7192.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7192.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2604	2604	2604	2604	2604	
5°	2606	2585	2597	2592	2592	247
15°	2482	2470	2487	2494	2496	699
25°	2245	2242	2269	2283	2293	1032
35°	1912	1924	1972	1994	2013	1196
45°	1536	1558	1620	1668	1704	1186
55°	1144	1173	1254	1335	1369	1022
65°	751	790	898	996	1034	744
75°	376	440	572	622	618	400
85°	79	136	146	134	134	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2603.9	2603.9	2603.9	2603.9	2603.9
2.5°	2615.8	2596.6	2606.2	2601.5	2591.9
5°	2606.2	2584.7	2596.6	2591.9	2591.9
7.5°	2584.7	2567.9	2577.5	2575.2	2577.5
10°	2558.4	2541.6	2556.0	2556.0	2553.6
12.5°	2522.4	2508.1	2524.9	2524.9	2527.3
15°	2481.8	2469.8	2486.6	2493.8	2496.1
17.5°	2431.5	2419.6	2441.1	2448.2	2455.5
20°	2374.1	2369.3	2390.9	2398.0	2407.6
22.5°	2309.4	2309.4	2331.0	2340.6	2355.0
25°	2244.8	2242.5	2268.8	2283.1	2292.7
27.5°	2168.3	2170.7	2204.2	2218.5	2230.5
30°	2086.9	2091.7	2130.0	2146.7	2163.5
32.5°	2000.8	2010.3	2053.4	2072.5	2089.3
35°	1912.2	1924.1	1972.0	1993.6	2012.8
37.5°	1823.6	1840.4	1890.7	1912.2	1933.7
40°	1730.3	1744.7	1802.2	1828.5	1854.8
42.5°	1634.6	1653.8	1711.1	1749.4	1780.6
45°	1536.4	1558.0	1620.2	1668.1	1704.0
47.5°	1438.3	1467.1	1526.9	1591.5	1622.6
50°	1340.3	1369.0	1435.9	1507.7	1538.8
52.5°	1239.7	1268.4	1345.0	1419.2	1452.7
55°	1144.0	1172.7	1254.1	1335.4	1369.0
57.5°	1043.5	1074.5	1165.6	1249.2	1282.8
60°	945.3	976.4	1074.5	1163.1	1199.0
62.5°	849.6	883.1	986.0	1079.4	1115.2
65°	751.4	789.7	897.5	995.6	1033.9
67.5°	655.8	698.8	811.3	914.2	954.9
70°	560.0	610.3	730.0	835.2	875.9
72.5°	466.6	521.7	648.6	753.8	775.4
75°	375.7	440.3	572.0	622.2	617.5
77.5°	289.6	361.4	485.8	495.4	509.8
80°	210.6	289.6	363.8	382.9	373.3
82.5°	138.8	217.7	260.9	251.3	248.9
85°	78.9	136.4	146.0	134.0	134.0
87.5°	33.5	55.0	47.9	35.9	33.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)