

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-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-LD5-65-S-UNV-L830-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6316.9 lumens
Efficiency: N/A
Efficacy: 109.6 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

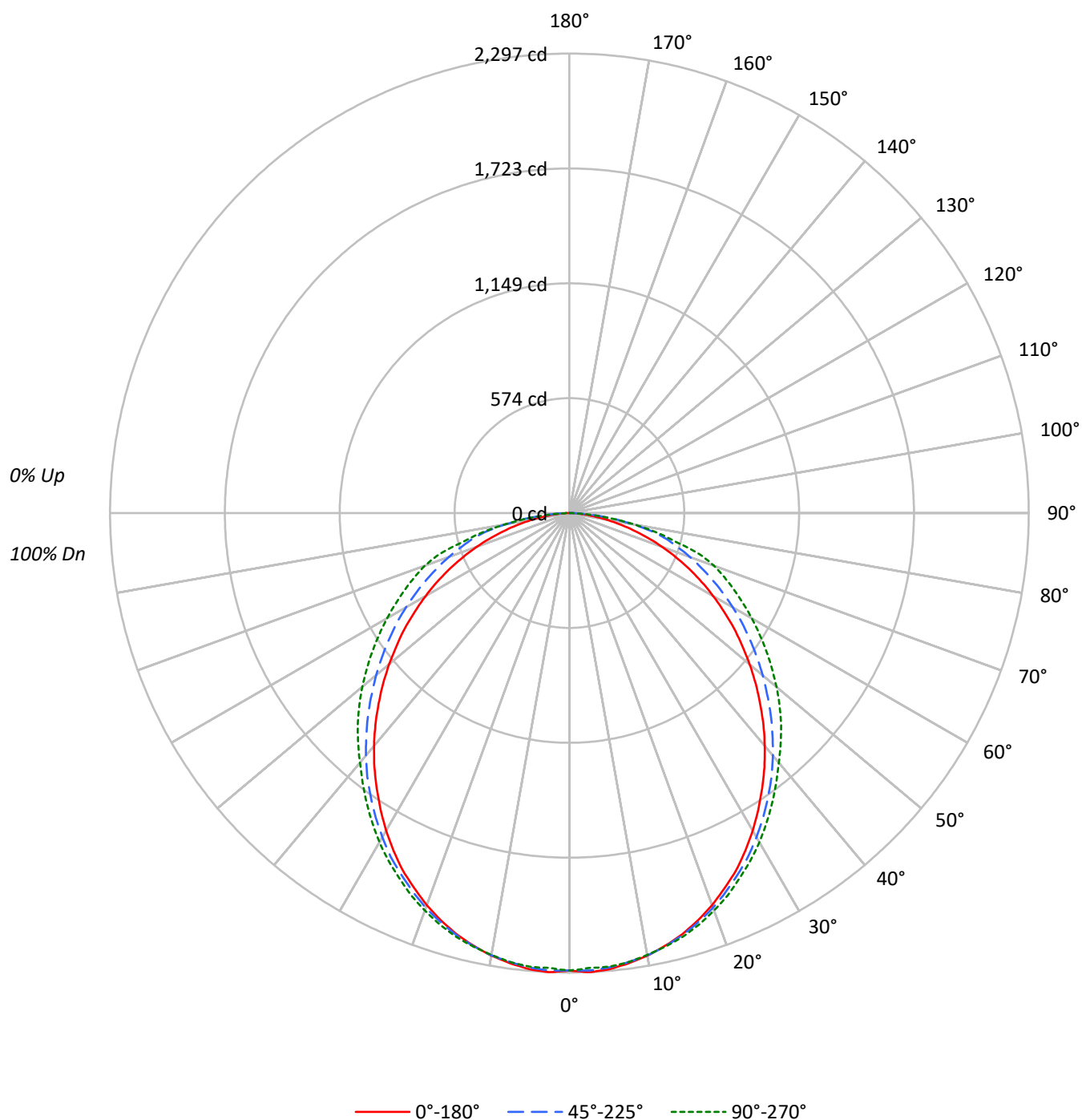
Input Watts (W): 57.64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3077	3077	3077
5°	3085	3066	3061
10°	3056	3039	3037
15°	3016	2999	3013
20°	2959	2950	2974
25°	2893	2887	2921
30°	2807	2820	2869
35°	2711	2743	2805
40°	2614	2661	2746
45°	2505	2571	2712
50°	2392	2483	2670
55°	2276	2402	2632
60°	2141	2326	2608
65°	1994	2253	2611
70°	1810	2201	2661
75°	1569	2180	2376
80°	1255	1903	1979
85°	833	1232	1156



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.2	3.4
10°-20°	614.9	9.7
20°-30°	916.4	14.5
30°-40°	1078.7	17.1
40°-50°	1096.2	17.4
50°-60°	985.6	15.6
60°-70°	778.6	12.3
70°-80°	494.0	7.8
80°-90°	136.3	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°	1747.5	27.7
0°-40°	2826.2	44.7
0°-60°	4908.0	77.7
0°-90°	6316.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6316.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2287	2287	2287	2287	2287	
5°	2289	2270	2281	2276	2276	217
15°	2180	2169	2184	2190	2192	614
25°	1972	1969	1993	2005	2014	906
35°	1679	1690	1732	1751	1768	1051
45°	1349	1368	1423	1465	1496	1041
55°	1005	1030	1101	1173	1202	897
65°	660	694	788	874	908	654
75°	330	387	502	546	542	351
85°	69	120	128	118	118	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2286.8	2286.8	2286.8	2286.8	2286.8
2.5°	2297.4	2280.6	2288.9	2284.8	2276.3
5°	2288.9	2270.0	2280.6	2276.3	2276.3
7.5°	2270.0	2255.3	2263.8	2261.7	2263.8
10°	2246.9	2232.2	2244.8	2244.8	2242.7
12.5°	2215.4	2202.8	2217.5	2217.5	2219.6
15°	2179.7	2169.1	2183.9	2190.1	2192.2
17.5°	2135.5	2125.0	2144.0	2150.2	2156.5
20°	2085.1	2080.9	2099.8	2106.1	2114.5
22.5°	2028.3	2028.3	2047.2	2055.6	2068.2
25°	1971.5	1969.4	1992.6	2005.2	2013.6
27.5°	1904.3	1906.4	1935.8	1948.4	1959.0
30°	1832.8	1837.0	1870.6	1885.4	1900.1
32.5°	1757.2	1765.6	1803.4	1820.2	1834.9
35°	1679.4	1690.0	1731.9	1750.8	1767.7
37.5°	1601.6	1616.3	1660.5	1679.4	1698.3
40°	1519.6	1532.3	1582.7	1605.9	1629.0
42.5°	1435.5	1452.4	1502.8	1536.4	1563.8
45°	1349.4	1368.3	1423.0	1465.0	1496.5
47.5°	1263.2	1288.5	1341.0	1397.7	1425.1
50°	1177.0	1202.3	1261.1	1324.2	1351.5
52.5°	1088.8	1114.0	1181.2	1246.4	1275.8
55°	1004.7	1029.9	1101.4	1172.9	1202.3
57.5°	916.5	943.7	1023.6	1097.2	1126.6
60°	830.2	857.6	943.7	1021.5	1053.1
62.5°	746.1	775.6	866.0	947.9	979.4
65°	660.0	693.6	788.2	874.4	908.0
67.5°	575.9	613.8	712.5	802.9	838.7
70°	491.8	536.0	641.1	733.6	769.3
72.5°	409.8	458.2	569.6	662.1	681.1
75°	330.0	386.7	502.4	546.5	542.3
77.5°	254.3	317.4	426.6	435.1	447.7
80°	185.0	254.3	319.5	336.3	327.9
82.5°	121.9	191.2	229.1	220.7	218.6
85°	69.4	119.8	128.2	117.7	117.7
87.5°	29.4	48.4	42.1	31.5	29.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)