

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-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-LD5-70-UNV-L830-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

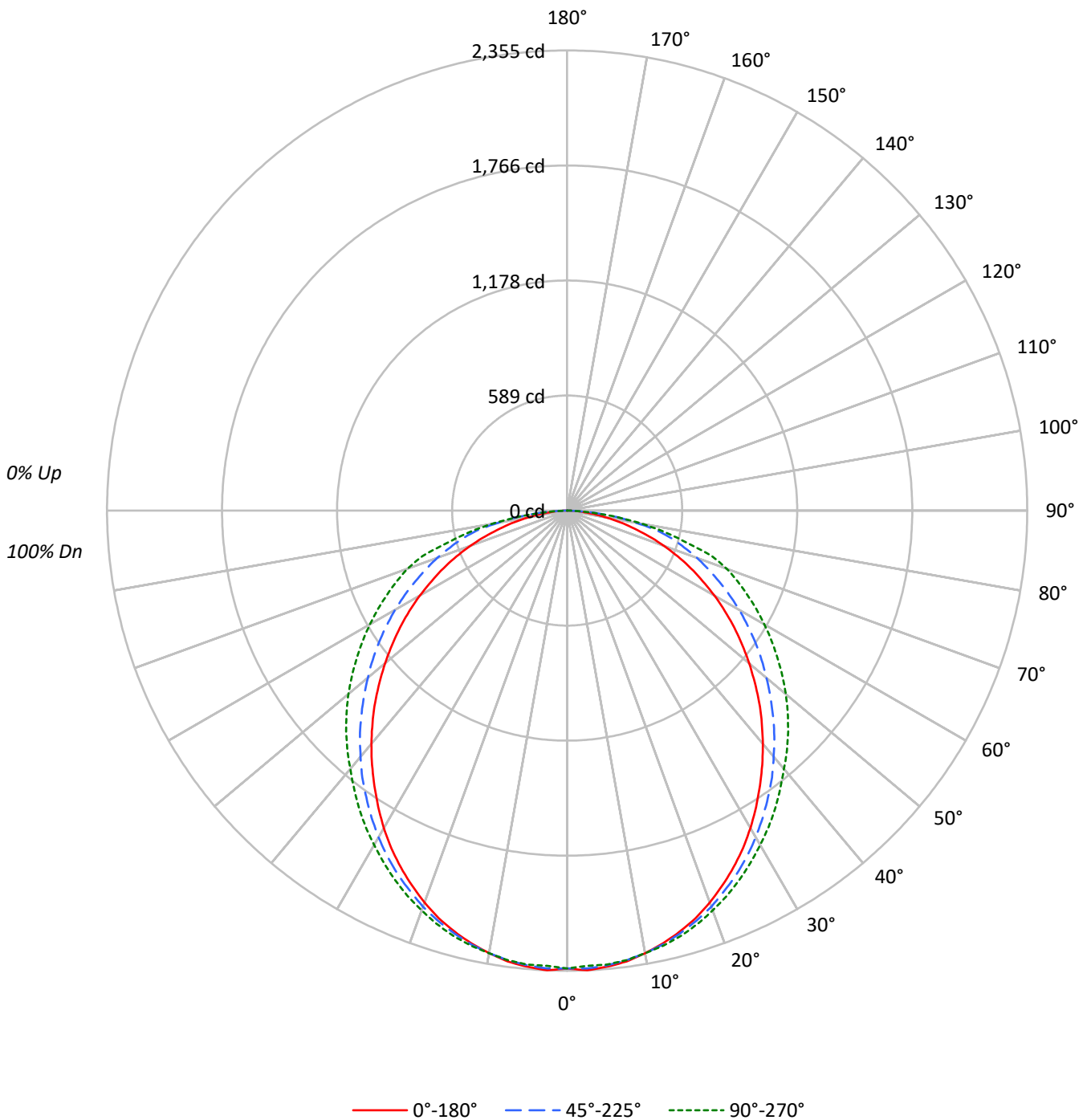
Lumens per Lamp: N/A
Luminaire Lumens: 6668.4 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 64.22
Input Voltage (V): NR
Input Current (A_{in}): 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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3153	3153	3153
5°	3158	3141	3136
10°	3129	3114	3115
15°	3085	3075	3096
20°	3029	3031	3063
25°	2956	2974	3025
30°	2873	2910	2984
35°	2776	2838	2948
40°	2681	2766	2910
45°	2582	2693	2898
50°	2471	2622	2886
55°	2363	2562	2876
60°	2247	2505	2888
65°	2111	2451	2922
70°	1937	2422	3005
75°	1694	2412	2763
80°	1386	2122	2342
85°	953	1373	1337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.6	3.3
10°-20°	630.7	9.5
20°-30°	942.8	14.1
30°-40°	1118.0	16.8
40°-50°	1149.7	17.2
50°-60°	1051.7	15.8
60°-70°	848.2	12.7
70°-80°	550.7	8.3
80°-90°	155.0	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°	1795.2	26.9
0°-40°	2913.2	43.7
0°-60°	5114.6	76.7
0°-90°	6668.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6668.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2343	2343	2343	2343	2343	
5°	2343	2328	2336	2332	2332	222
15°	2230	2219	2239	2248	2253	629
25°	2014	2014	2053	2069	2085	927
35°	1720	1735	1792	1828	1858	1076
45°	1391	1416	1490	1558	1599	1072
55°	1044	1078	1175	1268	1314	933
65°	699	740	858	969	1016	691
75°	356	422	556	624	631	380
85°	79	132	143	141	136	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2343.4	2343.4	2343.4	2343.4	2343.4
2.5°	2354.7	2336.5	2345.6	2341.1	2332.0
5°	2343.4	2327.5	2336.5	2332.0	2332.0
7.5°	2327.5	2311.6	2320.7	2320.7	2320.7
10°	2300.2	2286.6	2300.2	2300.2	2300.2
12.5°	2268.5	2257.1	2273.1	2275.3	2279.8
15°	2229.9	2218.6	2239.0	2248.1	2252.6
17.5°	2186.8	2177.8	2200.4	2211.8	2218.6
20°	2134.6	2127.8	2157.4	2168.7	2177.8
22.5°	2075.7	2075.7	2105.2	2118.8	2134.6
25°	2014.4	2014.4	2053.0	2068.9	2084.8
27.5°	1948.6	1950.9	1994.0	2016.7	2032.5
30°	1876.1	1885.1	1930.5	1957.7	1975.8
32.5°	1798.9	1810.2	1862.5	1896.5	1919.2
35°	1719.5	1735.4	1792.1	1828.4	1857.9
37.5°	1640.1	1660.5	1721.8	1762.6	1792.1
40°	1558.5	1581.2	1644.6	1692.3	1726.3
42.5°	1474.5	1499.5	1569.8	1624.2	1665.1
45°	1390.6	1415.5	1490.4	1558.5	1599.3
47.5°	1302.1	1331.6	1411.0	1490.4	1531.2
50°	1215.9	1247.6	1331.6	1417.8	1460.9
52.5°	1129.7	1166.0	1254.5	1345.2	1388.3
55°	1043.5	1077.5	1175.1	1268.1	1313.5
57.5°	957.3	993.6	1095.6	1193.2	1240.9
60°	871.1	909.6	1016.3	1118.3	1166.0
62.5°	782.6	823.5	936.9	1043.5	1091.2
65°	698.7	739.6	857.5	968.6	1016.3
67.5°	612.5	657.9	780.3	893.8	943.7
70°	526.3	576.2	705.5	818.9	868.9
72.5°	440.0	496.8	628.3	741.8	778.0
75°	356.2	421.9	555.8	623.9	630.6
77.5°	279.0	347.0	474.1	501.3	515.0
80°	204.2	279.0	356.2	390.2	387.9
82.5°	136.1	213.3	256.3	260.9	256.3
85°	79.4	131.6	142.9	140.6	136.1
87.5°	34.0	52.2	45.4	38.6	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)