

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: P261333

Luminaire Tested: **24CZ-LD5-70-S-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261333
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-L92765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6517.0 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

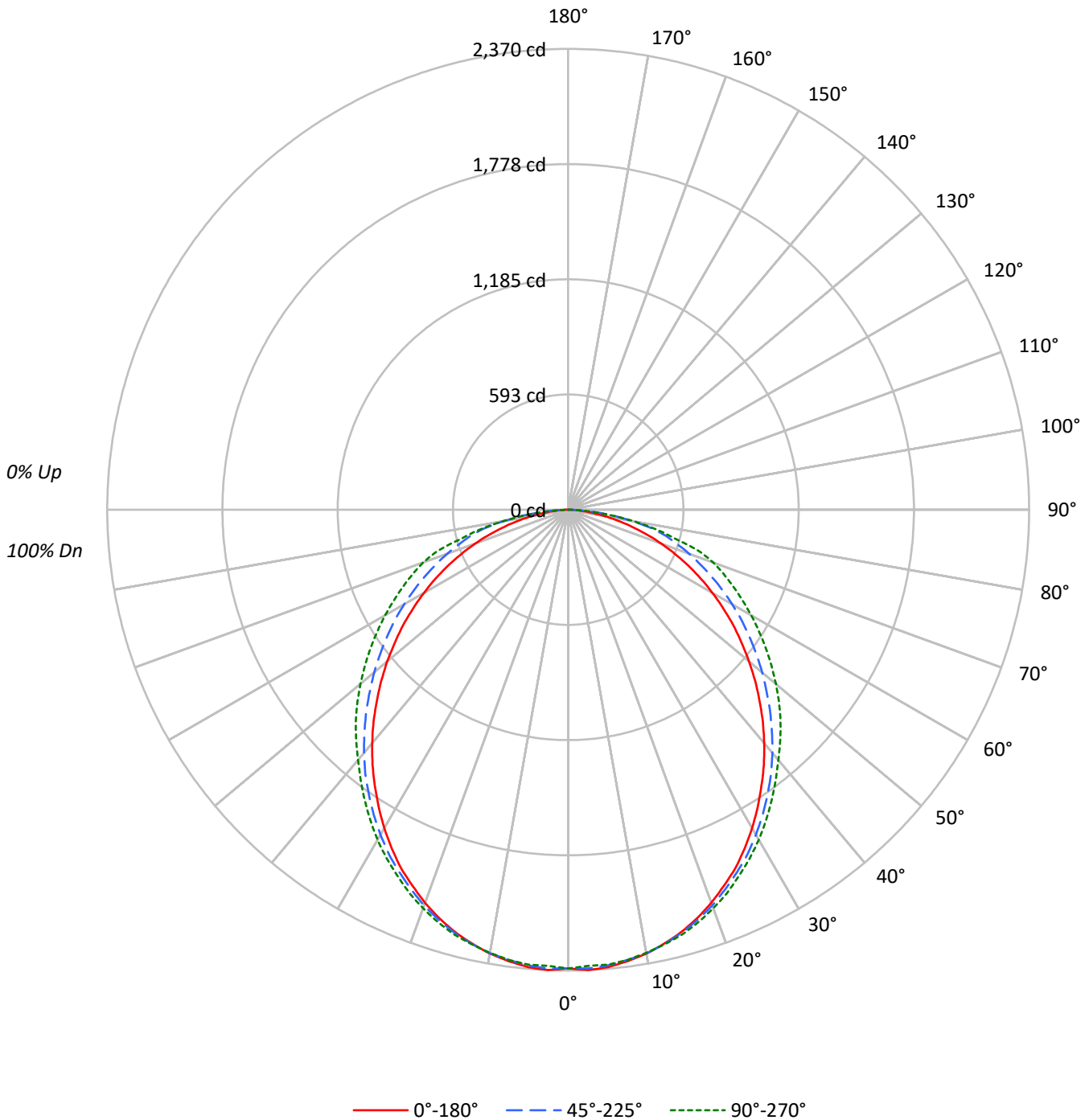
Input Watts (W): 54.684
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3174	3174	3174
5°	3189	3178	3172
10°	3167	3164	3161
15°	3132	3138	3150
20°	3080	3102	3124
25°	3020	3052	3084
30°	2938	2998	3046
35°	2846	2935	2995
40°	2754	2868	2952
45°	2649	2793	2938
50°	2542	2723	2919
55°	2431	2666	2910
60°	2305	2620	2923
65°	2168	2589	2982
70°	1996	2602	3122
75°	1770	2694	2909
80°	1478	2554	2621
85°	1105	2042	1874



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.1	3.4
10°-20°	634.4	9.7
20°-30°	945.4	14.5
30°-40°	1112.9	17.1
40°-50°	1130.9	17.4
50°-60°	1016.8	15.6
60°-70°	803.3	12.3
70°-80°	509.6	7.8
80°-90°	140.7	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°	1802.8	27.7
0°-40°	2915.7	44.7
0°-60°	5063.4	77.7
0°-90°	6517.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6517.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2359	2359	2359	2359	2359	
5°	2361	2342	2353	2348	2348	224
15°	2249	2238	2253	2260	2262	633
25°	2034	2032	2056	2069	2077	935
35°	1733	1743	1787	1806	1824	1084
45°	1392	1412	1468	1511	1544	1074
55°	1036	1062	1136	1210	1240	926
65°	681	716	813	902	937	674
75°	340	399	518	564	560	362
85°	72	124	132	121	121	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2359.3	2359.3	2359.3	2359.3	2359.3
2.5°	2370.1	2352.8	2361.4	2357.1	2348.4
5°	2361.4	2341.9	2352.8	2348.4	2348.4
7.5°	2341.9	2326.7	2335.4	2333.3	2335.4
10°	2318.1	2302.9	2315.9	2315.9	2313.7
12.5°	2285.5	2272.5	2287.7	2287.7	2289.9
15°	2248.7	2237.8	2253.0	2259.5	2261.7
17.5°	2203.1	2192.3	2211.8	2218.3	2224.8
20°	2151.1	2146.8	2166.3	2172.8	2181.5
22.5°	2092.6	2092.6	2112.1	2120.7	2133.8
25°	2034.0	2031.8	2055.7	2068.7	2077.4
27.5°	1964.6	1966.8	1997.1	2010.2	2021.0
30°	1890.9	1895.2	1929.9	1945.1	1960.3
32.5°	1812.8	1821.5	1860.5	1877.9	1893.1
35°	1732.6	1743.4	1786.8	1806.3	1823.7
37.5°	1652.4	1667.5	1713.1	1732.6	1752.1
40°	1567.8	1580.8	1632.8	1656.7	1680.5
42.5°	1481.1	1498.4	1550.4	1585.1	1613.3
45°	1392.1	1411.7	1468.0	1511.4	1543.9
47.5°	1303.2	1329.3	1383.5	1442.0	1470.2
50°	1214.3	1240.4	1301.1	1366.1	1394.3
52.5°	1123.3	1149.3	1218.7	1285.9	1316.2
55°	1036.5	1062.5	1136.3	1210.0	1240.4
57.5°	945.4	973.6	1056.0	1131.9	1162.3
60°	856.5	884.7	973.6	1053.9	1086.4
62.5°	769.8	800.2	893.4	978.0	1010.5
65°	680.9	715.6	813.2	902.1	936.8
67.5°	594.2	633.2	735.1	828.3	865.2
70°	507.4	553.0	661.4	756.8	793.7
72.5°	422.8	472.7	587.7	683.1	702.6
75°	340.4	399.0	518.3	563.8	559.5
77.5°	262.4	327.4	440.2	448.9	461.9
80°	190.8	262.4	329.6	347.0	338.3
82.5°	125.8	197.3	236.4	227.7	225.5
85°	71.6	123.6	132.3	121.4	121.4
87.5°	30.4	49.9	43.4	32.5	30.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)