

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: P261329

Luminaire Tested: **24CZ-LD5-70-S-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261329
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-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5636.0 lumens
Efficiency: N/A
Efficacy: 105.2 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

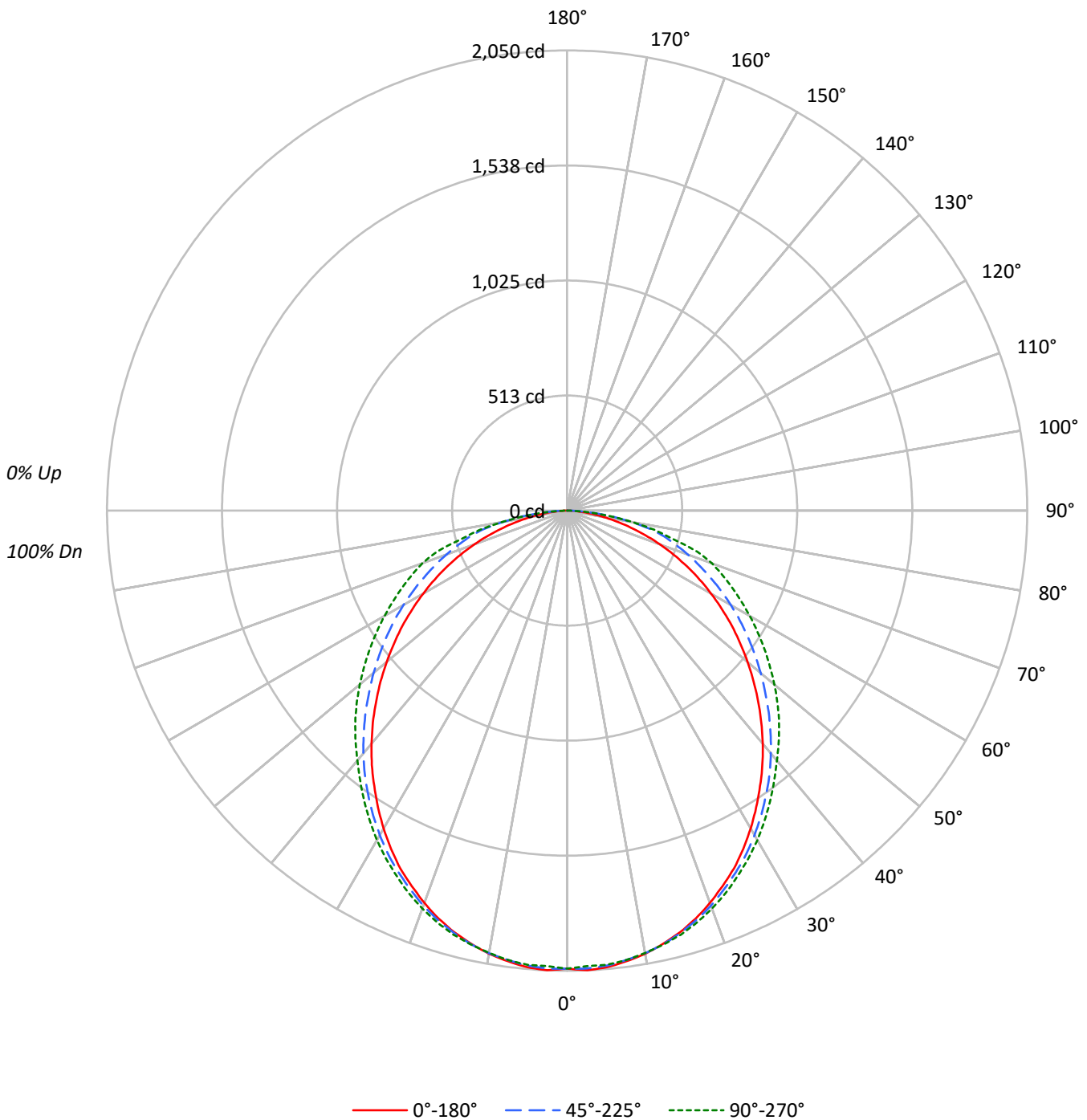
Input Watts (W): 53.568
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2745	2745	2745
5°	2758	2748	2743
10°	2739	2736	2734
15°	2709	2714	2724
20°	2664	2682	2701
25°	2611	2639	2667
30°	2541	2593	2634
35°	2461	2538	2590
40°	2381	2480	2553
45°	2291	2416	2541
50°	2198	2355	2524
55°	2103	2305	2516
60°	1993	2266	2528
65°	1875	2239	2579
70°	1726	2250	2700
75°	1530	2330	2515
80°	1278	2208	2266
85°	956	1766	1621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.9	3.4
10°-20°	548.6	9.7
20°-30°	817.6	14.5
30°-40°	962.4	17.1
40°-50°	978.0	17.4
50°-60°	879.3	15.6
60°-70°	694.7	12.3
70°-80°	440.7	7.8
80°-90°	121.6	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°	1559.1	27.7
0°-40°	2521.6	44.7
0°-60°	4379.0	77.7
0°-90°	5636.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5636.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2040	2040	2040	2040	2040	
5°	2042	2025	2035	2031	2031	194
15°	1945	1935	1948	1954	1956	548
25°	1759	1757	1778	1789	1796	809
35°	1498	1508	1545	1562	1577	937
45°	1204	1221	1270	1307	1335	929
55°	896	919	983	1046	1073	801
65°	589	619	703	780	810	583
75°	294	345	448	488	484	313
85°	62	107	114	105	105	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2040.3	2040.3	2040.3	2040.3	2040.3
2.5°	2049.7	2034.7	2042.2	2038.5	2031.0
5°	2042.2	2025.3	2034.7	2031.0	2031.0
7.5°	2025.3	2012.2	2019.7	2017.8	2019.7
10°	2004.7	1991.6	2002.8	2002.8	2001.0
12.5°	1976.6	1965.3	1978.5	1978.5	1980.3
15°	1944.7	1935.3	1948.4	1954.1	1955.9
17.5°	1905.3	1895.9	1912.8	1918.4	1924.1
20°	1860.3	1856.6	1873.4	1879.1	1886.6
22.5°	1809.7	1809.7	1826.6	1834.1	1845.3
25°	1759.0	1757.2	1777.8	1789.0	1796.5
27.5°	1699.0	1700.9	1727.2	1738.4	1747.8
30°	1635.3	1639.0	1669.0	1682.2	1695.3
32.5°	1567.8	1575.3	1609.0	1624.0	1637.1
35°	1498.4	1507.7	1545.3	1562.1	1577.1
37.5°	1429.0	1442.1	1481.5	1498.4	1515.2
40°	1355.8	1367.1	1412.1	1432.7	1453.4
42.5°	1280.8	1295.8	1340.8	1370.9	1395.2
45°	1203.9	1220.8	1269.6	1307.1	1335.2
47.5°	1127.1	1149.6	1196.4	1247.1	1271.5
50°	1050.2	1072.7	1125.2	1181.4	1205.8
52.5°	971.4	993.9	1053.9	1112.1	1138.3
55°	896.4	918.9	982.7	1046.4	1072.7
57.5°	817.6	842.0	913.3	978.9	1005.2
60°	740.7	765.1	842.0	911.4	939.5
62.5°	665.7	692.0	772.6	845.8	873.9
65°	588.8	618.9	703.2	780.1	810.1
67.5°	513.8	547.6	635.7	716.4	748.2
70°	438.8	478.2	572.0	654.5	686.4
72.5°	365.7	408.8	508.2	590.7	607.6
75°	294.4	345.1	448.2	487.6	483.8
77.5°	226.9	283.2	380.7	388.2	399.4
80°	165.0	226.9	285.0	300.0	292.5
82.5°	108.8	170.7	204.4	196.9	195.0
85°	61.9	106.9	114.4	105.0	105.0
87.5°	26.3	43.1	37.5	28.1	26.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)