

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: P261170

Luminaire Tested: **24CZ-LD5-55-S-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261170
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-LD5-55-S-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5651.0 lumens
Efficiency: N/A
Efficacy: 139.4 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

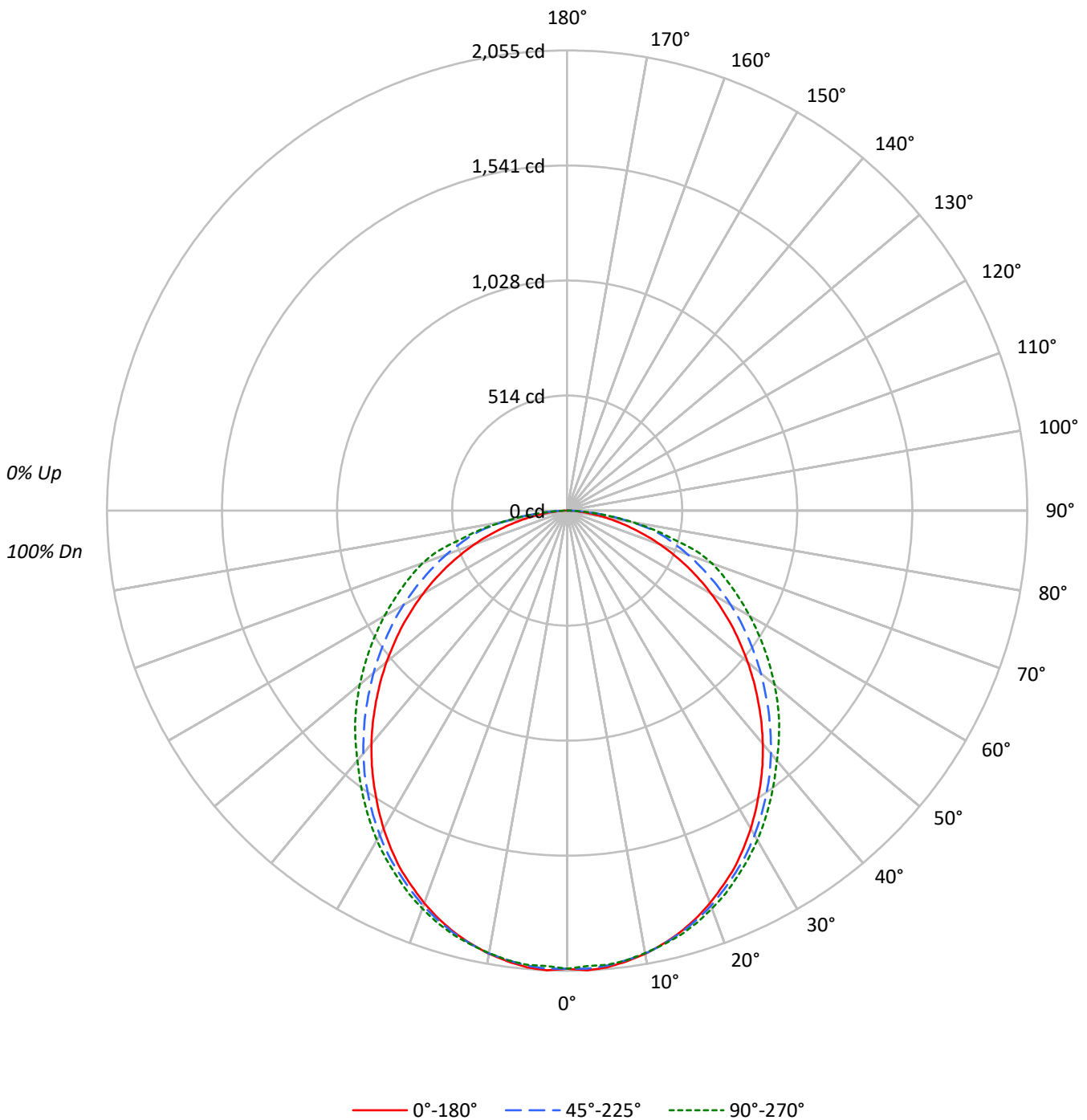
Input Watts (W): 40.548
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0																			
RCR																																														
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																												
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83																												
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69																												
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58																												
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50																												
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43																												
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38																												
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33																												
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30																												
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27																												
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2753	2753	2753
5°	2766	2755	2750
10°	2746	2744	2741
15°	2716	2721	2732
20°	2671	2690	2708
25°	2618	2646	2674
30°	2547	2600	2641
35°	2468	2545	2597
40°	2388	2487	2559
45°	2297	2422	2547
50°	2204	2362	2531
55°	2108	2311	2523
60°	1999	2272	2535
65°	1880	2245	2586
70°	1731	2256	2707
75°	1535	2336	2522
80°	1282	2214	2273
85°	957	1771	1626



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.4	3.4
10°-20°	550.1	9.7
20°-30°	819.8	14.5
30°-40°	965.0	17.1
40°-50°	980.7	17.4
50°-60°	881.7	15.6
60°-70°	696.5	12.3
70°-80°	441.9	7.8
80°-90°	122.0	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°	1563.3	27.7
0°-40°	2528.3	44.7
0°-60°	4390.6	77.7
0°-90°	5651.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5651.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2046	2046	2046	2046	2046	
5°	2048	2031	2040	2036	2036	194
15°	1950	1940	1954	1959	1961	549
25°	1764	1762	1782	1794	1801	811
35°	1502	1512	1549	1566	1581	940
45°	1207	1224	1273	1311	1339	931
55°	899	921	985	1049	1076	803
65°	590	620	705	782	812	585
75°	295	346	449	489	485	314
85°	62	107	115	105	105	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2045.8	2045.8	2045.8	2045.8	2045.8
2.5°	2055.2	2040.1	2047.6	2043.9	2036.4
5°	2047.6	2030.7	2040.1	2036.4	2036.4
7.5°	2030.7	2017.6	2025.1	2023.2	2025.1
10°	2010.0	1996.9	2008.2	2008.2	2006.3
12.5°	1981.8	1970.6	1983.7	1983.7	1985.6
15°	1949.9	1940.5	1953.6	1959.3	1961.2
17.5°	1910.4	1901.0	1917.9	1923.5	1929.2
20°	1865.3	1861.5	1878.4	1884.1	1891.6
22.5°	1814.5	1814.5	1831.4	1838.9	1850.2
25°	1763.7	1761.8	1782.5	1793.8	1801.3
27.5°	1703.6	1705.4	1731.8	1743.0	1752.4
30°	1639.6	1643.4	1673.5	1686.6	1699.8
32.5°	1571.9	1579.5	1613.3	1628.3	1641.5
35°	1502.4	1511.8	1549.4	1566.3	1581.3
37.5°	1432.8	1446.0	1485.4	1502.4	1519.3
40°	1359.5	1370.7	1415.9	1436.5	1457.2
42.5°	1284.2	1299.3	1344.4	1374.5	1398.9
45°	1207.2	1224.1	1273.0	1310.6	1338.8
47.5°	1130.1	1152.6	1199.6	1250.4	1274.8
50°	1053.0	1075.5	1128.2	1184.6	1209.0
52.5°	974.0	996.6	1056.7	1115.0	1141.3
55°	898.8	921.3	985.3	1049.2	1075.5
57.5°	819.8	844.3	915.7	981.5	1007.8
60°	742.7	767.2	844.3	913.8	942.0
62.5°	667.5	693.8	774.7	848.0	876.2
65°	590.4	620.5	705.1	782.2	812.3
67.5°	515.2	549.0	637.4	718.3	750.2
70°	440.0	479.5	573.5	656.2	688.2
72.5°	366.7	409.9	509.6	592.3	609.2
75°	295.2	346.0	449.4	488.9	485.1
77.5°	227.5	283.9	381.7	389.2	400.5
80°	165.5	227.5	285.8	300.8	293.3
82.5°	109.1	171.1	205.0	197.4	195.6
85°	62.0	107.2	114.7	105.3	105.3
87.5°	26.3	43.2	37.6	28.2	26.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)