

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: P261166

Luminaire Tested: **24CZ-LD5-50-S-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261166
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-LD5-50-S-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5359.0 lumens
Efficiency: N/A
Efficacy: 143.7 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

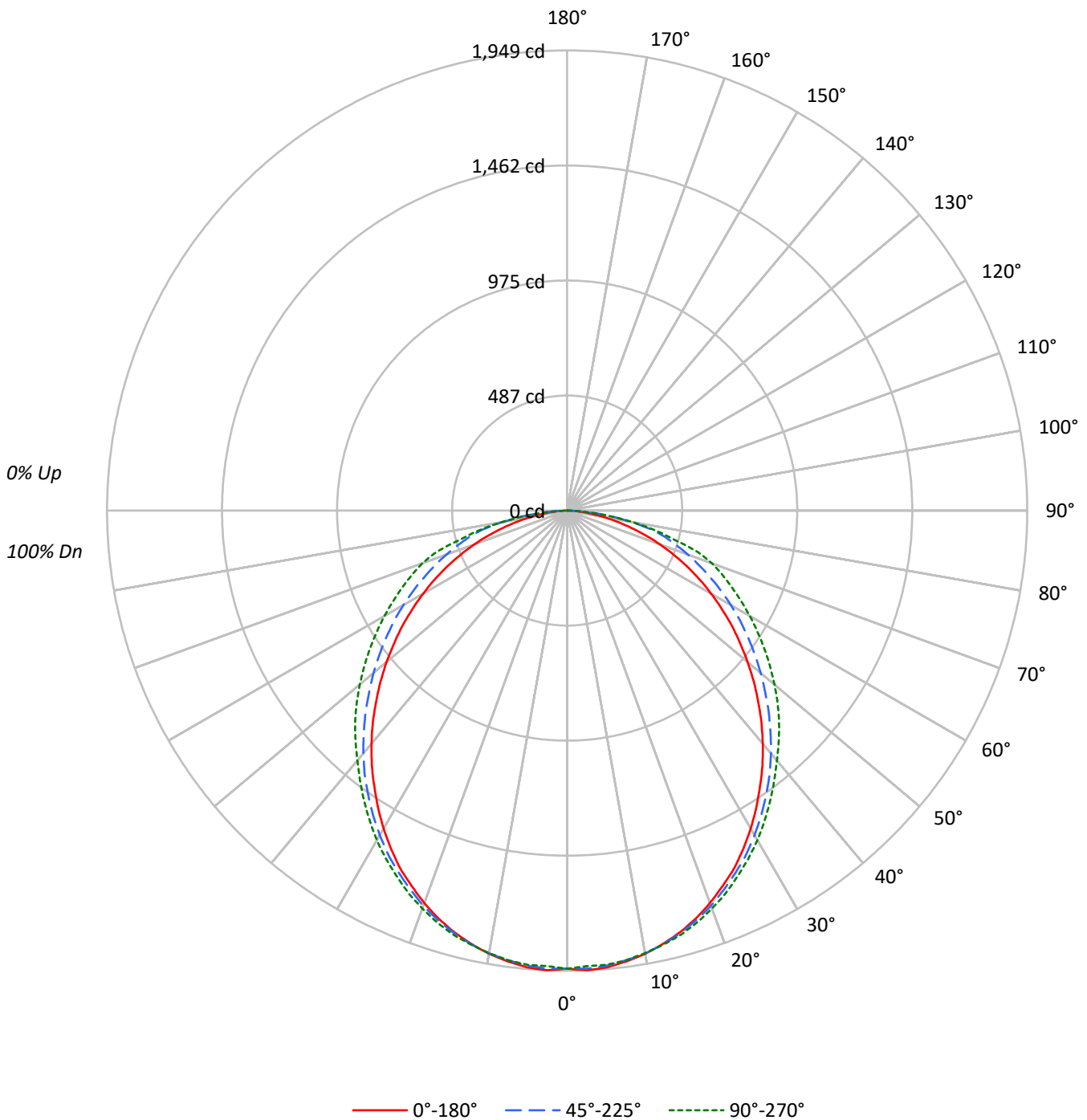
Input Watts (W): 37.293
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2610	2610	2610
5°	2623	2613	2608
10°	2604	2602	2599
15°	2576	2581	2591
20°	2533	2551	2568
25°	2483	2510	2536
30°	2416	2466	2504
35°	2340	2413	2463
40°	2264	2358	2427
45°	2178	2297	2416
50°	2090	2240	2400
55°	1999	2192	2393
60°	1895	2154	2404
65°	1783	2129	2452
70°	1642	2140	2567
75°	1456	2216	2392
80°	1216	2100	2156
85°	908	1680	1542



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.4	3.4
10°-20°	521.7	9.7
20°-30°	777.4	14.5
30°-40°	915.1	17.1
40°-50°	930.0	17.4
50°-60°	836.1	15.6
60°-70°	660.6	12.3
70°-80°	419.1	7.8
80°-90°	115.7	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°	1482.5	27.7
0°-40°	2397.6	44.7
0°-60°	4163.7	77.7
0°-90°	5359.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5359.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1940	1940	1940	1940	1940	
5°	1942	1926	1935	1931	1931	184
15°	1849	1840	1853	1858	1860	521
25°	1673	1671	1690	1701	1708	769
35°	1425	1434	1469	1485	1500	891
45°	1145	1161	1207	1243	1270	883
55°	852	874	934	995	1020	761
65°	560	588	669	742	770	555
75°	280	328	426	464	460	298
85°	59	102	109	100	100	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1940.1	1940.1	1940.1	1940.1	1940.1
2.5°	1949.0	1934.7	1941.8	1938.3	1931.1
5°	1941.8	1925.8	1934.7	1931.1	1931.1
7.5°	1925.8	1913.3	1920.4	1918.7	1920.4
10°	1906.2	1893.7	1904.4	1904.4	1902.6
12.5°	1879.4	1868.7	1881.2	1881.2	1883.0
15°	1849.1	1840.2	1852.7	1858.0	1859.8
17.5°	1811.7	1802.8	1818.8	1824.2	1829.5
20°	1768.9	1765.3	1781.4	1786.7	1793.8
22.5°	1720.7	1720.7	1736.8	1743.9	1754.6
25°	1672.6	1670.8	1690.4	1701.1	1708.2
27.5°	1615.5	1617.3	1642.3	1653.0	1661.9
30°	1554.9	1558.5	1587.0	1599.5	1612.0
32.5°	1490.7	1497.8	1529.9	1544.2	1556.7
35°	1424.7	1433.6	1469.3	1485.4	1499.6
37.5°	1358.8	1371.2	1408.7	1424.7	1440.8
40°	1289.2	1299.9	1342.7	1362.3	1381.9
42.5°	1217.9	1232.1	1274.9	1303.5	1326.7
45°	1144.8	1160.8	1207.2	1242.8	1269.6
47.5°	1071.7	1093.1	1137.6	1185.8	1209.0
50°	998.6	1020.0	1069.9	1123.4	1146.6
52.5°	923.7	945.1	1002.1	1057.4	1082.4
55°	852.3	873.7	934.4	995.0	1020.0
57.5°	777.4	800.6	868.4	930.8	955.8
60°	704.3	727.5	800.6	866.6	893.4
62.5°	633.0	658.0	734.7	804.2	830.9
65°	559.9	588.4	668.7	741.8	770.3
67.5°	488.6	520.7	604.5	681.2	711.5
70°	417.3	454.7	543.9	622.3	652.6
72.5°	347.7	388.7	483.2	561.7	577.7
75°	280.0	328.1	426.2	463.6	460.1
77.5°	215.8	269.3	362.0	369.1	379.8
80°	156.9	215.8	271.0	285.3	278.2
82.5°	103.4	162.3	194.4	187.2	185.4
85°	58.8	101.6	108.8	99.9	99.9
87.5°	25.0	41.0	35.7	26.7	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)