

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: P261163

Luminaire Tested: **24CZ-LD5-50-S-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261163
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-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5279.0 lumens
Efficiency: N/A
Efficacy: 144.4 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

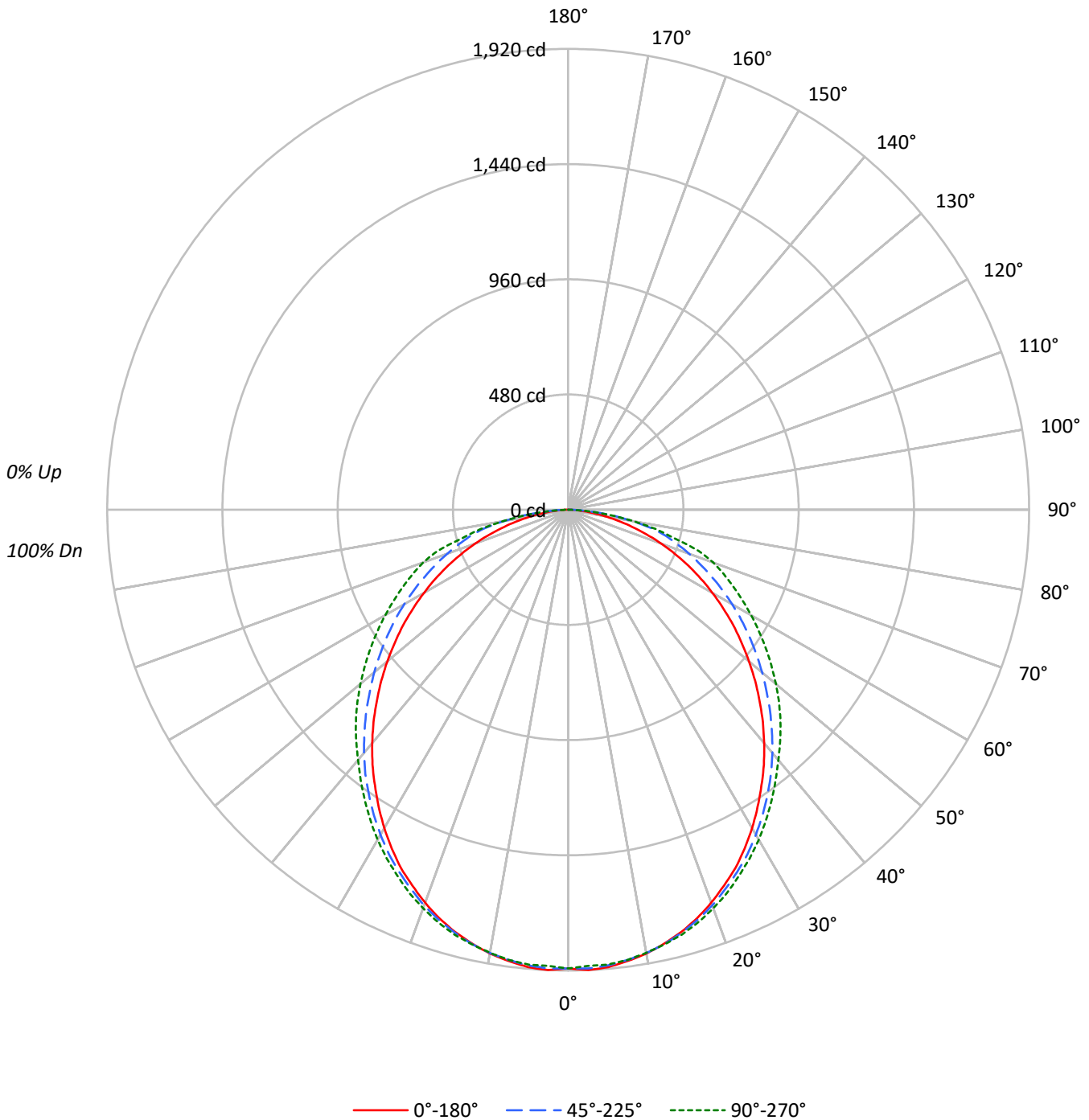
Input Watts (W): 36.549
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2571	2571	2571
5°	2584	2574	2569
10°	2565	2563	2561
15°	2537	2542	2552
20°	2495	2513	2530
25°	2446	2472	2498
30°	2380	2429	2467
35°	2305	2377	2426
40°	2231	2323	2391
45°	2146	2263	2380
50°	2059	2206	2364
55°	1970	2159	2357
60°	1867	2122	2368
65°	1756	2097	2416
70°	1617	2107	2529
75°	1434	2182	2356
80°	1198	2069	2123
85°	895	1653	1519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.7	3.4
10°-20°	513.9	9.7
20°-30°	765.8	14.5
30°-40°	901.5	17.1
40°-50°	916.1	17.4
50°-60°	823.6	15.6
60°-70°	650.7	12.3
70°-80°	412.8	7.8
80°-90°	113.9	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°	1460.4	27.7
0°-40°	2361.9	44.7
0°-60°	4101.6	77.7
0°-90°	5279.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5279.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1911	1911	1911	1911	1911	
5°	1913	1897	1906	1902	1902	181
15°	1822	1813	1825	1830	1832	513
25°	1648	1646	1665	1676	1683	758
35°	1404	1412	1447	1463	1477	878
45°	1128	1144	1189	1224	1251	870
55°	840	861	920	980	1005	750
65°	552	580	659	731	759	546
75°	276	323	420	457	453	294
85°	58	100	107	98	98	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1911.1	1911.1	1911.1	1911.1	1911.1
2.5°	1919.9	1905.8	1912.9	1909.3	1902.3
5°	1912.9	1897.0	1905.8	1902.3	1902.3
7.5°	1897.0	1884.7	1891.8	1890.0	1891.8
10°	1877.7	1865.4	1876.0	1876.0	1874.2
12.5°	1851.4	1840.8	1853.1	1853.1	1854.9
15°	1821.5	1812.7	1825.0	1830.3	1832.1
17.5°	1784.6	1775.8	1791.7	1796.9	1802.2
20°	1742.5	1739.0	1754.8	1760.0	1767.1
22.5°	1695.0	1695.0	1710.9	1717.9	1728.4
25°	1647.6	1645.9	1665.2	1675.7	1682.7
27.5°	1591.4	1593.2	1617.8	1628.3	1637.1
30°	1531.7	1535.2	1563.3	1575.6	1587.9
32.5°	1468.5	1475.5	1507.1	1521.1	1533.4
35°	1403.5	1412.2	1447.4	1463.2	1477.2
37.5°	1338.5	1350.8	1387.7	1403.5	1419.3
40°	1270.0	1280.5	1322.7	1342.0	1361.3
42.5°	1199.7	1213.8	1255.9	1284.0	1306.9
45°	1127.7	1143.5	1189.2	1224.3	1250.6
47.5°	1055.7	1076.7	1120.7	1168.1	1190.9
50°	983.7	1004.7	1053.9	1106.6	1129.4
52.5°	909.9	931.0	987.2	1041.6	1066.2
55°	839.6	860.7	920.4	980.1	1004.7
57.5°	765.8	788.7	855.4	916.9	941.5
60°	693.8	716.7	788.7	853.7	880.0
62.5°	623.6	648.2	723.7	792.2	818.5
65°	551.5	579.7	658.7	730.7	758.8
67.5°	481.3	512.9	595.5	671.0	700.9
70°	411.0	447.9	535.7	613.0	642.9
72.5°	342.5	382.9	476.0	553.3	569.1
75°	275.8	323.2	419.8	456.7	453.2
77.5°	212.5	265.2	356.6	363.6	374.1
80°	154.6	212.5	267.0	281.0	274.0
82.5°	101.9	159.8	191.5	184.4	182.7
85°	58.0	100.1	107.1	98.4	98.4
87.5°	24.6	40.4	35.1	26.3	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)