

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: P261174

Luminaire Tested: **24CZ-LD5-55-S-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261174
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-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5902.0 lumens
Efficiency: N/A
Efficacy: 143.3 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

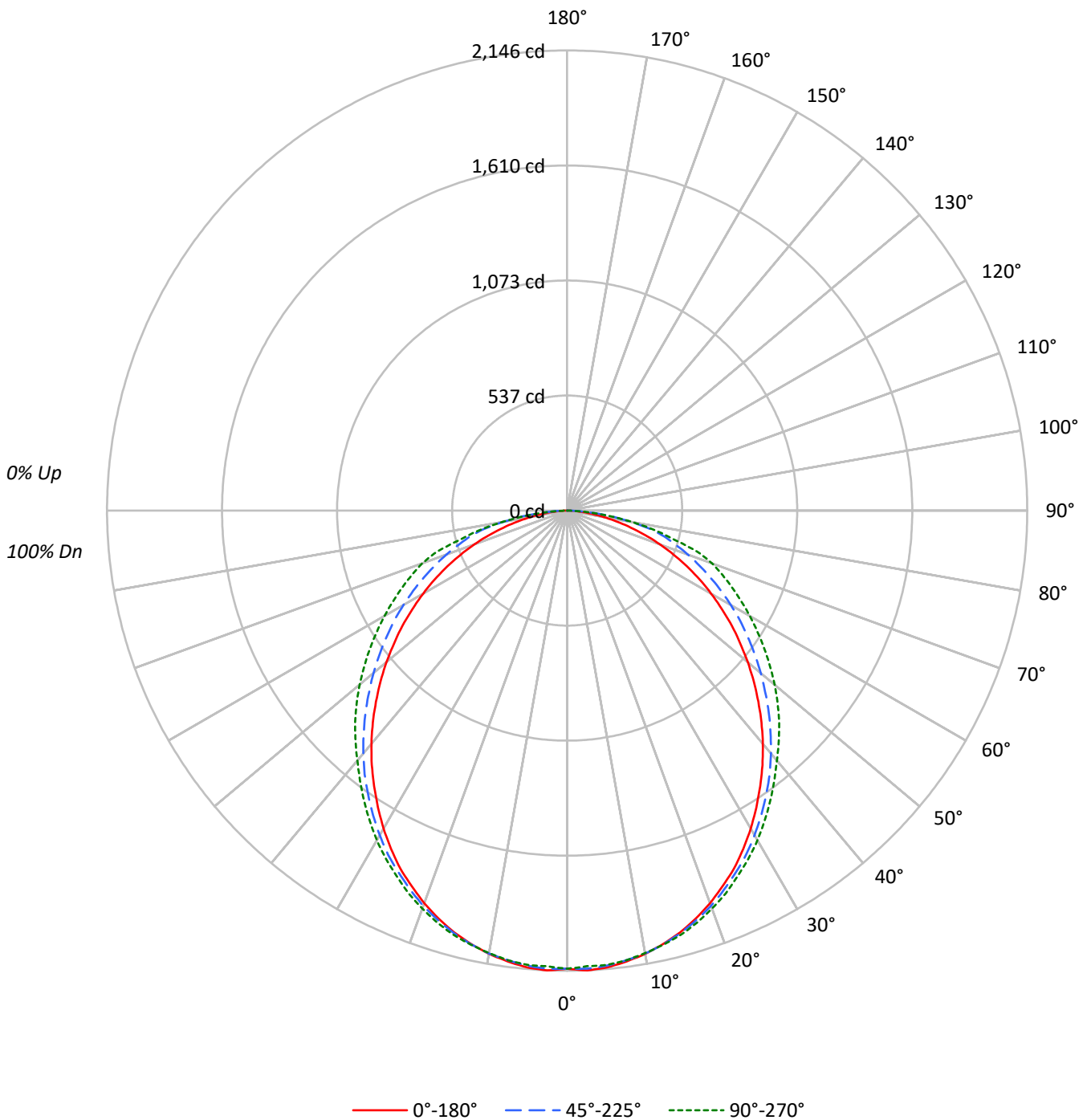
Input Watts (W): 41.199
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P261174

CATALOG NUMBER: 24CZ-LD5-55-S-UNV-L82765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P261174

CATALOG NUMBER: 24CZ-LD5-55-S-UNV-L82765-W2A1-U-5700K

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°	2875	2875	2875
5°	2888	2878	2873
10°	2868	2866	2863
15°	2837	2842	2853
20°	2789	2809	2829
25°	2735	2764	2793
30°	2660	2715	2758
35°	2577	2658	2713
40°	2494	2597	2673
45°	2399	2530	2661
50°	2302	2466	2643
55°	2202	2414	2635
60°	2087	2373	2648
65°	1963	2344	2701
70°	1808	2356	2828
75°	1603	2440	2634
80°	1339	2313	2374
85°	1000	1849	1698



TEST NUMBER: P261174

CATALOG NUMBER: 24CZ-LD5-55-S-UNV-L82765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.0	3.4
10°-20°	574.5	9.7
20°-30°	856.2	14.5
30°-40°	1007.9	17.1
40°-50°	1024.2	17.4
50°-60°	920.8	15.6
60°-70°	727.5	12.3
70°-80°	461.5	7.8
80°-90°	127.4	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°	1632.7	27.7
0°-40°	2640.6	44.7
0°-60°	4585.6	77.7
0°-90°	5902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5902.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2137	2137	2137	2137	2137	
5°	2139	2121	2131	2127	2127	203
15°	2036	2027	2040	2046	2048	574
25°	1842	1840	1862	1874	1881	847
35°	1569	1579	1618	1636	1652	982
45°	1261	1278	1330	1369	1398	973
55°	939	962	1029	1096	1123	838
65°	617	648	736	817	848	611
75°	308	361	469	511	507	328
85°	65	112	120	110	110	80
90°	0	0	0	0	0	



TEST NUMBER: P261174

CATALOG NUMBER: 24CZ-LD5-55-S-UNV-L82765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2136.6	2136.6	2136.6	2136.6	2136.6
2.5°	2146.5	2130.7	2138.6	2134.7	2126.8
5°	2138.6	2120.9	2130.7	2126.8	2126.8
7.5°	2120.9	2107.2	2115.0	2113.1	2115.0
10°	2099.3	2085.6	2097.4	2097.4	2095.4
12.5°	2069.9	2058.1	2071.8	2071.8	2073.8
15°	2036.5	2026.7	2040.4	2046.3	2048.3
17.5°	1995.2	1985.4	2003.1	2009.0	2014.9
20°	1948.1	1944.2	1961.9	1967.7	1975.6
22.5°	1895.1	1895.1	1912.8	1920.6	1932.4
25°	1842.1	1840.1	1861.7	1873.5	1881.3
27.5°	1779.2	1781.2	1808.7	1820.5	1830.3
30°	1712.4	1716.4	1747.8	1761.5	1775.3
32.5°	1641.8	1649.6	1685.0	1700.7	1714.4
35°	1569.1	1578.9	1618.2	1635.9	1651.6
37.5°	1496.4	1510.2	1551.4	1569.1	1586.8
40°	1419.8	1431.6	1478.8	1500.4	1522.0
42.5°	1341.3	1357.0	1404.1	1435.6	1461.1
45°	1260.8	1278.4	1329.5	1368.8	1398.2
47.5°	1180.3	1203.8	1252.9	1305.9	1331.5
50°	1099.7	1123.3	1178.3	1237.2	1262.7
52.5°	1017.3	1040.8	1103.7	1164.5	1192.0
55°	938.7	962.3	1029.0	1095.8	1123.3
57.5°	856.2	881.8	956.4	1025.1	1052.6
60°	775.7	801.2	881.8	954.4	983.9
62.5°	697.2	724.6	809.1	885.7	915.1
65°	616.6	648.1	736.4	816.9	848.4
67.5°	538.1	573.4	665.7	750.2	783.6
70°	459.5	500.8	599.0	685.4	718.8
72.5°	382.9	428.1	532.2	618.6	636.3
75°	308.3	361.3	469.4	510.6	506.7
77.5°	237.6	296.5	398.7	406.5	418.3
80°	172.8	237.6	298.5	314.2	306.4
82.5°	113.9	178.7	214.1	206.2	204.2
85°	64.8	111.9	119.8	110.0	110.0
87.5°	27.5	45.2	39.3	29.5	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)