

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: P261309

Luminaire Tested: **24CZ-LD5-55-S-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261309
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-L92765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5337.0 lumens
Efficiency: N/A
Efficacy: 129.3 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

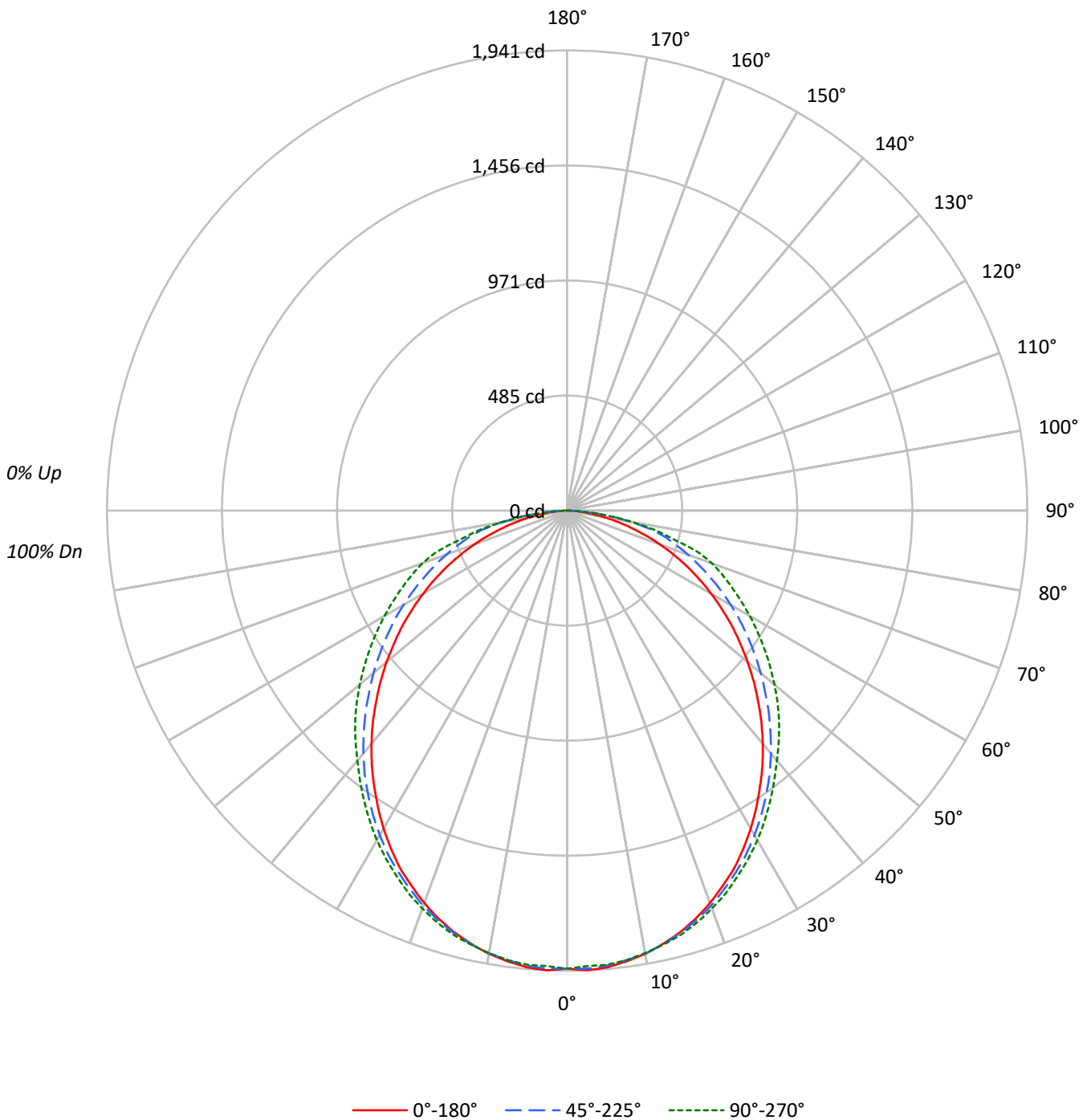
Input Watts (W): 41.292
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2600	2600	2600
5°	2612	2602	2598
10°	2594	2591	2589
15°	2565	2570	2580
20°	2522	2540	2558
25°	2473	2499	2526
30°	2406	2456	2494
35°	2331	2404	2453
40°	2255	2349	2417
45°	2169	2288	2406
50°	2082	2230	2390
55°	1991	2183	2383
60°	1887	2146	2394
65°	1775	2120	2443
70°	1635	2131	2557
75°	1449	2206	2382
80°	1211	2091	2146
85°	905	1672	1535



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.7	3.4
10°-20°	519.5	9.7
20°-30°	774.2	14.5
30°-40°	911.4	17.1
40°-50°	926.2	17.4
50°-60°	832.7	15.6
60°-70°	657.8	12.3
70°-80°	417.3	7.8
80°-90°	115.2	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°	1476.4	27.7
0°-40°	2387.8	44.7
0°-60°	4146.7	77.7
0°-90°	5337.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5337.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1932	1932	1932	1932	1932	
5°	1934	1918	1927	1923	1923	183
15°	1842	1833	1845	1850	1852	519
25°	1666	1664	1684	1694	1701	766
35°	1419	1428	1463	1479	1494	888
45°	1140	1156	1202	1238	1264	880
55°	849	870	930	991	1016	758
65°	558	586	666	739	767	552
75°	279	327	424	462	458	297
85°	59	101	108	99	99	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1932.1	1932.1	1932.1	1932.1	1932.1
2.5°	1941.0	1926.8	1933.9	1930.3	1923.2
5°	1933.9	1917.9	1926.8	1923.2	1923.2
7.5°	1917.9	1905.5	1912.6	1910.8	1912.6
10°	1898.4	1885.9	1896.6	1896.6	1894.8
12.5°	1871.7	1861.1	1873.5	1873.5	1875.3
15°	1841.5	1832.6	1845.1	1850.4	1852.2
17.5°	1804.2	1795.4	1811.3	1816.7	1822.0
20°	1761.6	1758.1	1774.0	1779.4	1786.5
22.5°	1713.7	1713.7	1729.6	1736.8	1747.4
25°	1665.7	1663.9	1683.5	1694.1	1701.2
27.5°	1608.9	1610.7	1635.5	1646.2	1655.1
30°	1548.5	1552.1	1580.5	1592.9	1605.3
32.5°	1484.6	1491.7	1523.7	1537.9	1550.3
35°	1418.9	1427.8	1463.3	1479.3	1493.5
37.5°	1353.2	1365.6	1402.9	1418.9	1434.9
40°	1283.9	1294.6	1337.2	1356.7	1376.3
42.5°	1212.9	1227.1	1269.7	1298.1	1321.2
45°	1140.1	1156.1	1202.2	1237.7	1264.4
47.5°	1067.3	1088.6	1133.0	1180.9	1204.0
50°	994.5	1015.8	1065.5	1118.8	1141.9
52.5°	919.9	941.2	998.0	1053.1	1077.9
55°	848.8	870.2	930.5	990.9	1015.8
57.5°	774.3	797.3	864.8	927.0	951.8
60°	701.4	724.5	797.3	863.0	889.7
62.5°	630.4	655.3	731.6	800.9	827.5
65°	557.6	586.0	665.9	738.7	767.2
67.5°	486.6	518.5	602.0	678.4	708.6
70°	415.5	452.8	541.6	619.8	650.0
72.5°	346.3	387.1	481.2	559.4	575.4
75°	278.8	326.8	424.4	461.7	458.2
77.5°	214.9	268.1	360.5	367.6	378.2
80°	156.3	214.9	269.9	284.1	277.0
82.5°	103.0	161.6	193.6	186.5	184.7
85°	58.6	101.2	108.3	99.4	99.4
87.5°	24.9	40.8	35.5	26.6	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)