

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: P261308

Luminaire Tested: **24CZ-LD5-55-S-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261308
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-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5314.0 lumens
Efficiency: N/A
Efficacy: 129.0 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

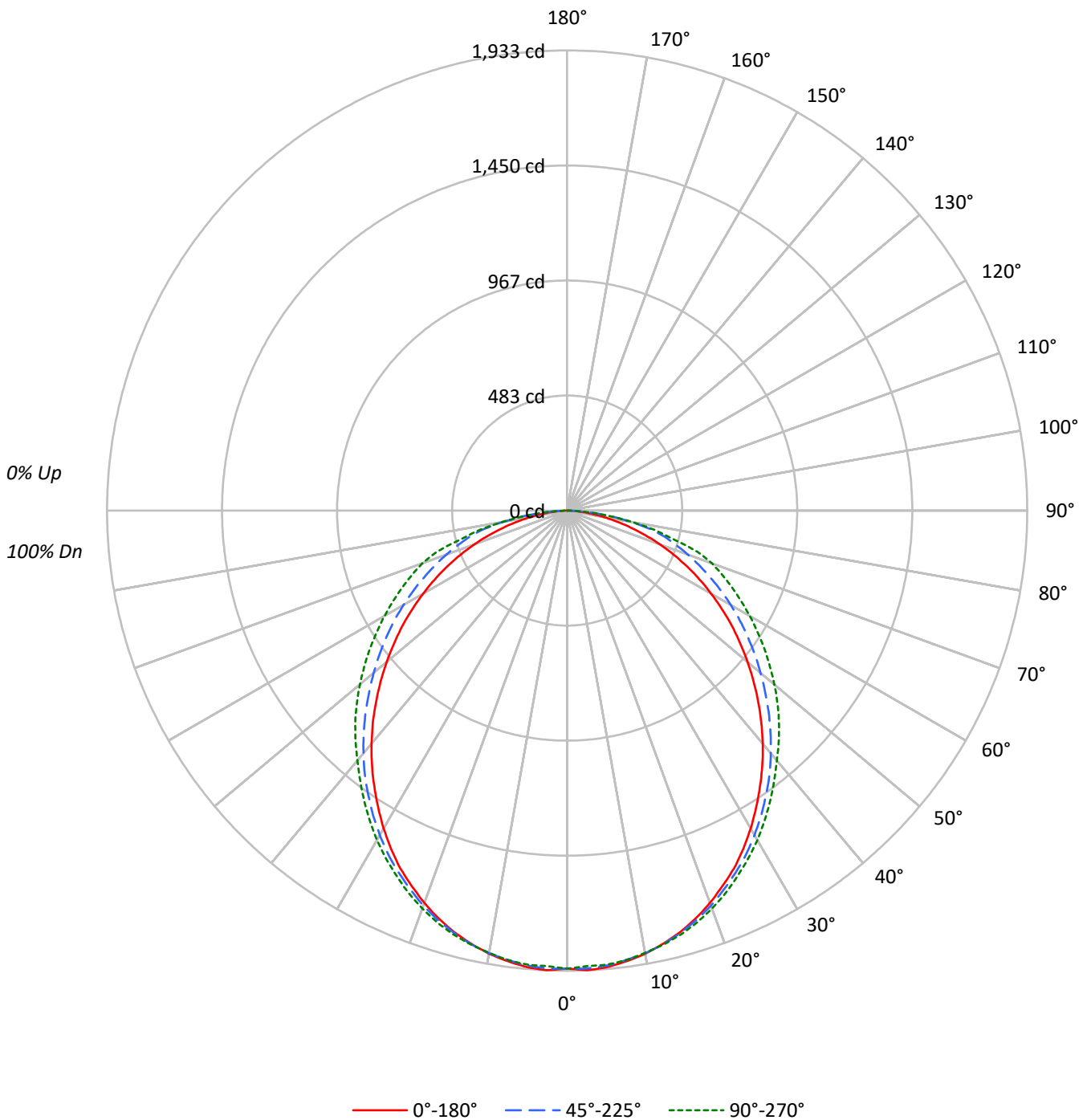
Input Watts (W): 41.199
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2588	2588	2588
5°	2601	2591	2586
10°	2582	2580	2578
15°	2554	2559	2569
20°	2511	2529	2547
25°	2462	2488	2515
30°	2395	2445	2483
35°	2321	2393	2442
40°	2245	2338	2407
45°	2160	2278	2395
50°	2073	2221	2380
55°	1983	2173	2373
60°	1879	2136	2384
65°	1768	2111	2432
70°	1628	2122	2546
75°	1443	2197	2372
80°	1206	2083	2137
85°	900	1666	1528



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.9	3.4
10°-20°	517.3	9.7
20°-30°	770.9	14.5
30°-40°	907.5	17.1
40°-50°	922.2	17.4
50°-60°	829.1	15.6
60°-70°	655.0	12.3
70°-80°	415.5	7.8
80°-90°	114.7	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°	1470.0	27.7
0°-40°	2377.5	44.7
0°-60°	4128.8	77.7
0°-90°	5314.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5314.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1924	1924	1924	1924	1924	
5°	1926	1910	1918	1915	1915	183
15°	1834	1825	1837	1842	1844	516
25°	1658	1657	1676	1687	1694	763
35°	1413	1422	1457	1473	1487	884
45°	1135	1151	1197	1232	1259	876
55°	845	866	926	987	1011	755
65°	555	584	663	736	764	550
75°	278	325	423	460	456	295
85°	58	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°	1923.8	1923.8	1923.8	1923.8	1923.8
2.5°	1932.6	1918.5	1925.5	1922.0	1914.9
5°	1925.5	1909.6	1918.5	1914.9	1914.9
7.5°	1909.6	1897.2	1904.3	1902.5	1904.3
10°	1890.2	1877.8	1888.4	1888.4	1886.6
12.5°	1863.6	1853.0	1865.4	1865.4	1867.2
15°	1833.6	1824.7	1837.1	1842.4	1844.2
17.5°	1796.5	1787.6	1803.5	1808.8	1814.1
20°	1754.0	1750.5	1766.4	1771.7	1778.8
22.5°	1706.3	1706.3	1722.2	1729.3	1739.9
25°	1658.5	1656.8	1676.2	1686.8	1693.9
27.5°	1602.0	1603.7	1628.5	1639.1	1647.9
30°	1541.8	1545.4	1573.7	1586.0	1598.4
32.5°	1478.2	1485.3	1517.1	1531.2	1543.6
35°	1412.8	1421.6	1457.0	1472.9	1487.0
37.5°	1347.3	1359.7	1396.9	1412.8	1428.7
40°	1278.4	1289.0	1331.4	1350.9	1370.3
42.5°	1207.7	1221.8	1264.2	1292.5	1315.5
45°	1135.2	1151.1	1197.0	1232.4	1258.9
47.5°	1062.7	1083.9	1128.1	1175.8	1198.8
50°	990.2	1011.4	1060.9	1113.9	1136.9
52.5°	915.9	937.1	993.7	1048.5	1073.3
55°	845.2	866.4	926.5	986.6	1011.4
57.5°	770.9	793.9	861.1	923.0	947.7
60°	698.4	721.4	793.9	859.3	885.9
62.5°	627.7	652.5	728.5	797.4	824.0
65°	555.2	583.5	663.1	735.6	763.8
67.5°	484.5	516.3	599.4	675.4	705.5
70°	413.8	450.9	539.3	617.1	647.1
72.5°	344.8	385.5	479.2	557.0	572.9
75°	277.6	325.3	422.6	459.7	456.2
77.5°	213.9	267.0	358.9	366.0	376.6
80°	155.6	213.9	268.8	282.9	275.8
82.5°	102.6	160.9	192.7	185.7	183.9
85°	58.3	100.8	107.9	99.0	99.0
87.5°	24.8	40.7	35.4	26.5	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)