

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: P260655

Luminaire Tested: **24CZ-LD5-55-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-55-UNV-L93050-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5183.7 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

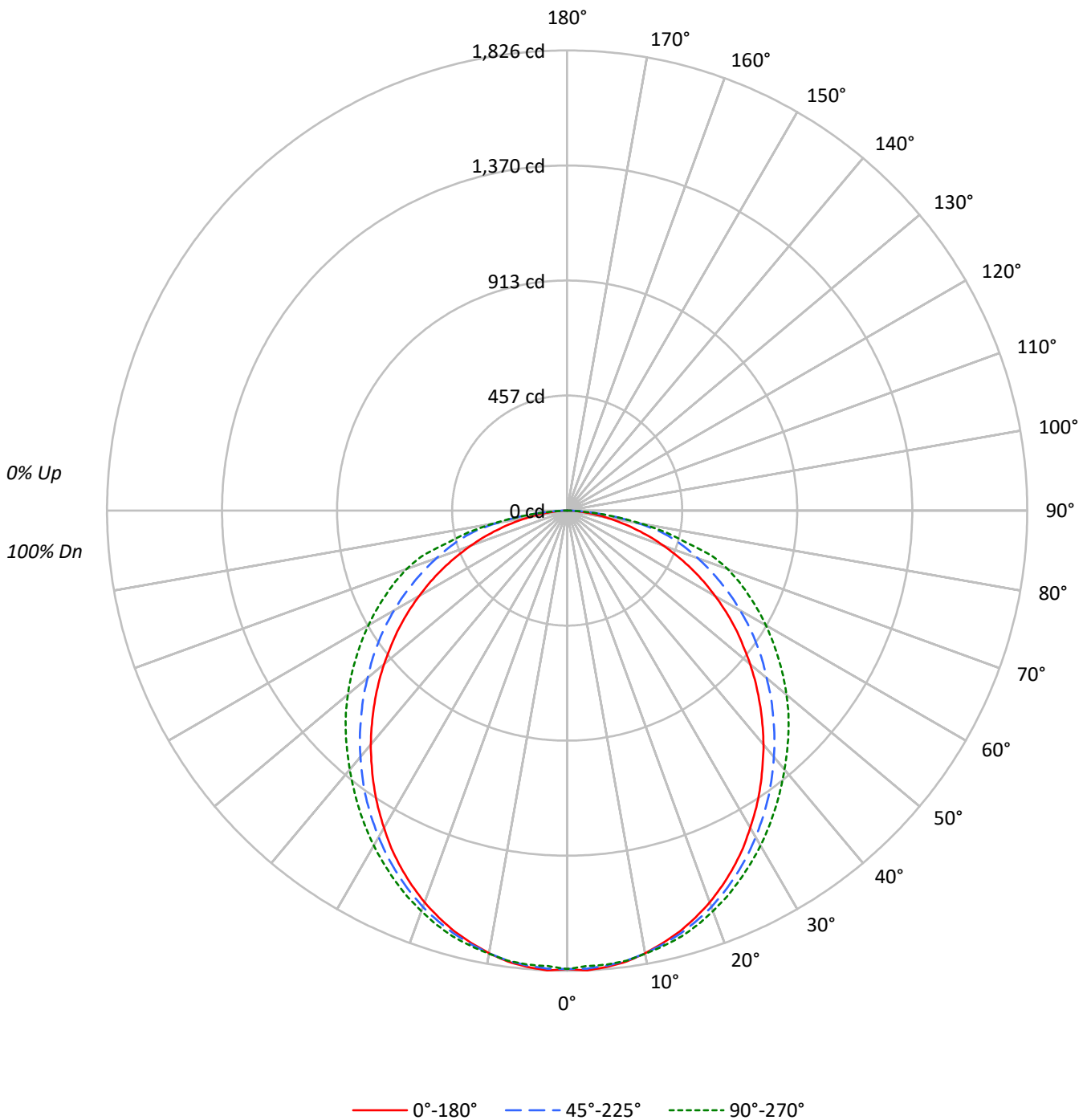
Input Watts (W): 41.766486
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2448	2448	2448
5°	2455	2447	2443
10°	2437	2437	2439
15°	2408	2420	2438
20°	2368	2396	2422
25°	2319	2363	2403
30°	2258	2325	2385
35°	2195	2286	2367
40°	2129	2241	2357
45°	2057	2199	2364
50°	1984	2162	2378
55°	1911	2148	2402
60°	1824	2135	2450
65°	1729	2136	2531
70°	1599	2172	2667
75°	1430	2270	2537
80°	1196	2173	2324
85°	905	1672	1589



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.9	3.3
10°-20°	489.3	9.4
20°-30°	731.4	14.1
30°-40°	867.7	16.7
40°-50°	893.1	17.2
50°-60°	819.3	15.8
60°-70°	662.4	12.8
70°-80°	429.9	8.3
80°-90°	118.6	2.3
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°	1392.6	26.9
0°-40°	2260.4	43.6
0°-60°	3972.8	76.6
0°-90°	5183.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5183.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1819	1819	1819	1819	1819	
5°	1817	1805	1812	1810	1809	172
15°	1729	1722	1738	1745	1750	487
25°	1562	1564	1592	1606	1619	719
35°	1336	1347	1392	1422	1441	836
45°	1081	1099	1155	1210	1242	834
55°	815	840	916	990	1024	728
65°	543	575	671	760	795	537
75°	275	327	437	488	488	292
85°	59	99	108	105	103	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1819.2	1819.2	1819.2	1819.2	1819.2
2.5°	1826.3	1812.1	1819.2	1817.4	1808.6
5°	1817.4	1805.0	1812.1	1810.3	1808.6
7.5°	1805.0	1792.6	1801.5	1799.7	1801.5
10°	1783.7	1773.1	1783.7	1785.5	1785.5
12.5°	1757.1	1748.2	1762.4	1766.0	1769.5
15°	1728.7	1721.6	1737.6	1744.7	1750.0
17.5°	1693.2	1687.9	1707.4	1716.3	1723.4
20°	1654.1	1652.4	1673.7	1682.5	1691.4
22.5°	1609.8	1609.8	1634.6	1645.3	1657.7
25°	1561.9	1563.6	1592.0	1606.2	1618.7
27.5°	1510.4	1512.2	1545.9	1563.6	1577.8
30°	1453.6	1460.7	1496.2	1519.3	1535.2
32.5°	1396.8	1405.7	1444.7	1471.3	1489.1
35°	1336.5	1347.1	1391.5	1421.6	1441.2
37.5°	1274.3	1286.8	1334.7	1368.4	1391.5
40°	1212.2	1226.4	1276.1	1315.2	1341.8
42.5°	1146.5	1162.5	1217.5	1263.7	1292.1
45°	1080.9	1098.6	1155.4	1210.4	1242.4
47.5°	1015.2	1036.5	1096.9	1157.2	1190.9
50°	947.8	969.1	1033.0	1102.2	1135.9
52.5°	880.3	905.2	976.2	1047.2	1080.9
55°	814.7	839.5	915.8	990.4	1024.1
57.5°	747.2	772.1	855.5	933.6	967.3
60°	678.0	706.4	793.4	873.2	910.5
62.5°	610.5	640.7	733.0	818.2	853.7
65°	543.1	575.0	670.9	759.6	795.1
67.5°	473.9	511.2	610.5	701.1	738.3
70°	406.4	447.3	552.0	642.5	678.0
72.5°	340.8	385.1	493.4	585.7	607.0
75°	275.1	326.6	436.6	488.1	488.1
77.5°	213.0	269.8	372.7	392.2	402.9
80°	154.4	216.5	280.4	303.5	299.9
82.5°	102.9	165.1	200.6	200.6	195.2
85°	58.6	99.4	108.3	104.7	102.9
87.5°	24.8	37.3	33.7	26.6	23.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)