

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: P260888

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260888
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-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5210.0 lumens
Efficiency: N/A
Efficacy: 126.5 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

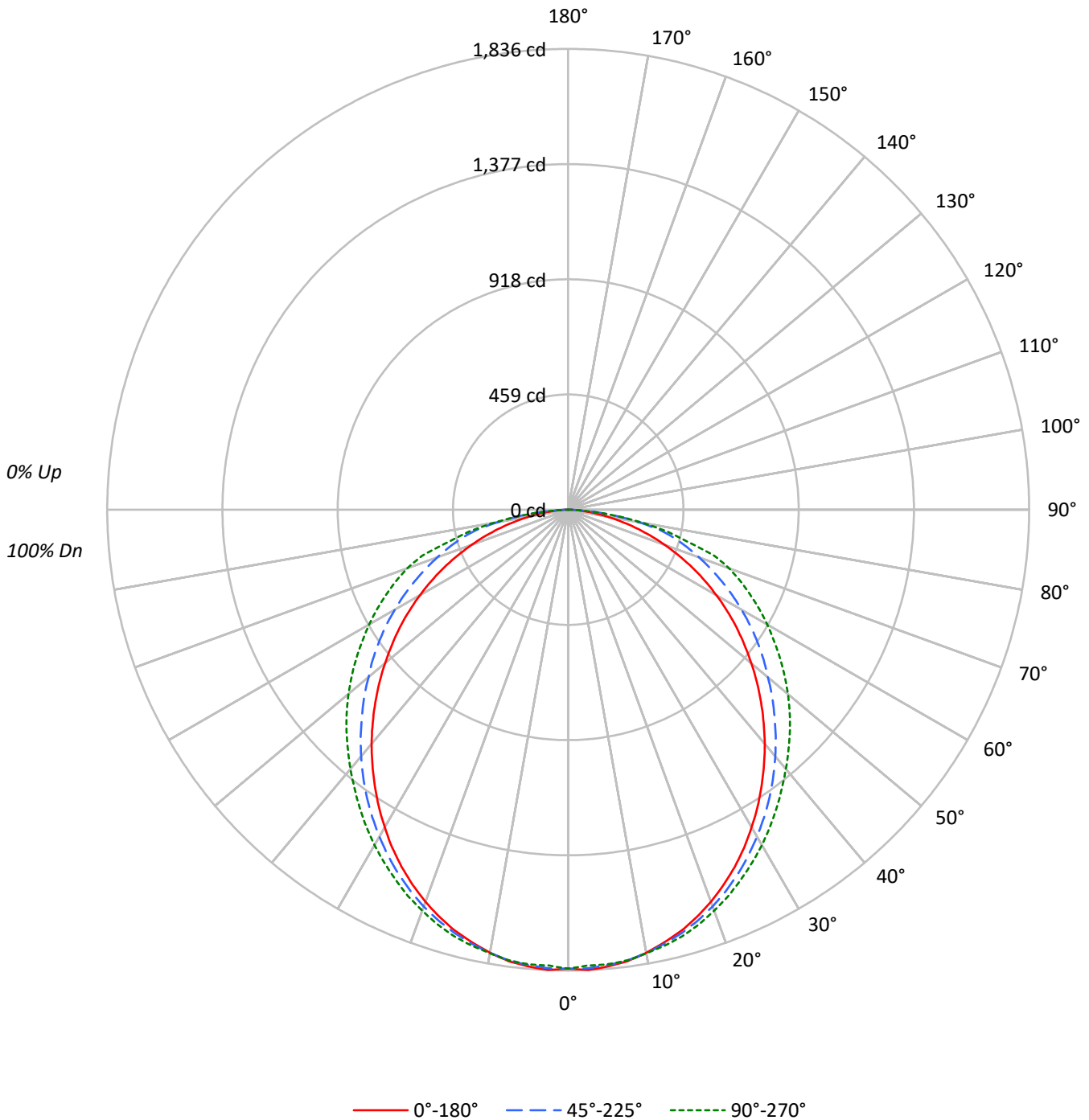
Input Watts (W): 41.199
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2460	2460	2460
5°	2467	2460	2455
10°	2449	2449	2452
15°	2420	2433	2450
20°	2380	2409	2434
25°	2330	2375	2415
30°	2270	2336	2397
35°	2206	2297	2379
40°	2140	2253	2369
45°	2067	2210	2376
50°	1994	2173	2390
55°	1921	2159	2415
60°	1834	2146	2463
65°	1738	2147	2544
70°	1607	2183	2681
75°	1437	2281	2550
80°	1203	2183	2336
85°	909	1680	1598



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.8	3.3
10°-20°	491.8	9.4
20°-30°	735.2	14.1
30°-40°	872.1	16.7
40°-50°	897.6	17.2
50°-60°	823.5	15.8
60°-70°	665.8	12.8
70°-80°	432.1	8.3
80°-90°	119.2	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°	1399.7	26.9
0°-40°	2271.8	43.6
0°-60°	3992.9	76.6
0°-90°	5210.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5210.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1828	1828	1828	1828	1828	
5°	1827	1814	1821	1820	1818	173
15°	1738	1730	1746	1754	1759	489
25°	1570	1572	1600	1614	1627	723
35°	1343	1354	1398	1429	1448	840
45°	1086	1104	1161	1217	1249	838
55°	819	844	920	995	1029	731
65°	546	578	674	764	799	539
75°	276	328	439	491	491	294
85°	59	100	109	105	104	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1828.4	1828.4	1828.4	1828.4	1828.4
2.5°	1835.6	1821.3	1828.4	1826.7	1817.7
5°	1826.7	1814.2	1821.3	1819.5	1817.7
7.5°	1814.2	1801.7	1810.6	1808.8	1810.6
10°	1792.8	1782.1	1792.8	1794.5	1794.5
12.5°	1766.0	1757.1	1771.4	1774.9	1778.5
15°	1737.5	1730.3	1746.4	1753.5	1758.9
17.5°	1701.8	1696.4	1716.1	1725.0	1732.1
20°	1662.5	1660.8	1682.2	1691.1	1700.0
22.5°	1617.9	1617.9	1642.9	1653.6	1666.1
25°	1569.8	1571.6	1600.1	1614.4	1626.9
27.5°	1518.1	1519.8	1553.7	1571.6	1585.8
30°	1461.0	1468.1	1503.8	1527.0	1543.0
32.5°	1403.9	1412.8	1452.0	1478.8	1496.6
35°	1343.2	1353.9	1398.5	1428.9	1448.5
37.5°	1280.8	1293.3	1341.4	1375.3	1398.5
40°	1218.4	1232.6	1282.6	1321.8	1348.6
42.5°	1152.4	1168.4	1223.7	1270.1	1298.6
45°	1086.4	1104.2	1161.3	1216.6	1248.7
47.5°	1020.4	1041.8	1102.4	1163.1	1197.0
50°	952.6	974.0	1038.2	1107.8	1141.7
52.5°	884.8	909.8	981.1	1052.5	1086.4
55°	818.8	843.8	920.5	995.4	1029.3
57.5°	751.0	776.0	859.8	938.3	972.2
60°	681.4	710.0	797.4	877.7	915.1
62.5°	613.6	644.0	736.7	822.4	858.0
65°	545.9	578.0	674.3	763.5	799.2
67.5°	476.3	513.7	613.6	704.6	742.1
70°	408.5	449.5	554.8	645.8	681.4
72.5°	342.5	387.1	495.9	588.7	610.1
75°	276.5	328.2	438.8	490.6	490.6
77.5°	214.1	271.1	374.6	394.2	404.9
80°	155.2	217.6	281.8	305.0	301.5
82.5°	103.5	165.9	201.6	201.6	196.2
85°	58.9	99.9	108.8	105.2	103.5
87.5°	25.0	37.5	33.9	26.8	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)