

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: P263727

Luminaire Tested: **24CZ-LD5-75-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-75-RDP-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5322.0 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

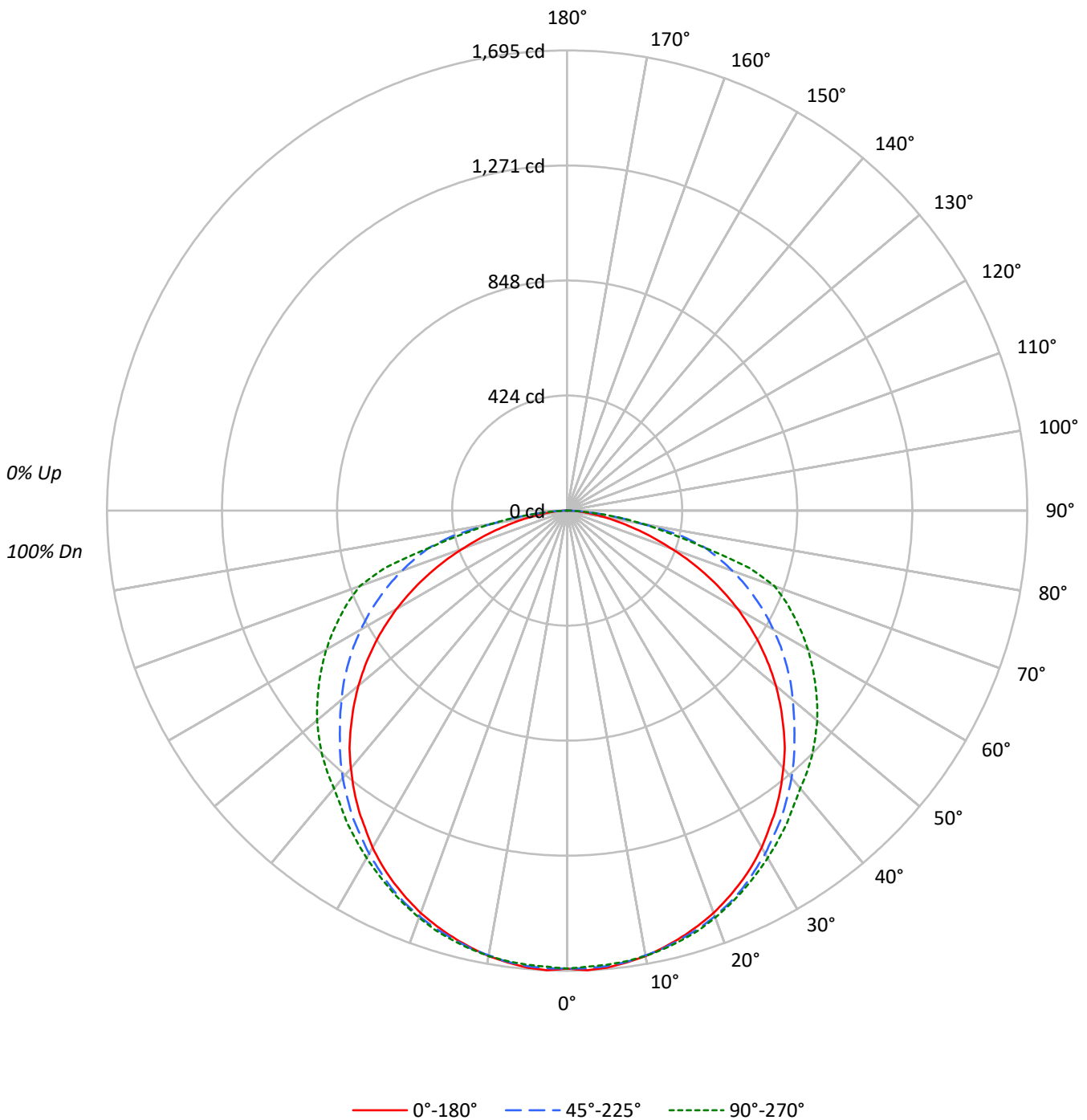
Input Watts (W): 59.52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2270	2270	2270
5°	2282	2275	2268
10°	2276	2273	2276
15°	2266	2273	2281
20°	2258	2277	2284
25°	2244	2275	2287
30°	2226	2267	2295
35°	2203	2263	2315
40°	2176	2259	2347
45°	2144	2253	2428
50°	2100	2270	2517
55°	2040	2311	2618
60°	1953	2362	2756
65°	1818	2436	2936
70°	1608	2546	3195
75°	1349	2724	2683
80°	1075	2152	2233
85°	849	1456	1335



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.0	3.0
10°-20°	460.5	8.7
20°-30°	703.4	13.2
30°-40°	860.0	16.2
40°-50°	920.5	17.3
50°-60°	882.9	16.6
60°-70°	745.5	14.0
70°-80°	476.5	9.0
80°-90°	112.7	2.1
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°	1324.0	24.9
0°-40°	2183.9	41.0
0°-60°	3987.4	74.9
0°-90°	5322.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5322.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1687	1687	1687	1687	1687	
5°	1690	1679	1684	1682	1679	160
15°	1627	1622	1632	1637	1637	459
25°	1512	1509	1533	1538	1540	697
35°	1341	1352	1378	1396	1409	839
45°	1126	1145	1184	1239	1276	869
55°	870	899	985	1074	1116	776
65°	571	626	765	872	922	563
75°	259	369	524	534	516	279
85°	55	92	94	92	86	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1687.1	1687.1	1687.1	1687.1	1687.1
2.5°	1695.0	1684.5	1687.1	1687.1	1681.9
5°	1689.7	1679.3	1684.5	1681.9	1679.3
7.5°	1679.3	1671.4	1676.6	1676.6	1674.0
10°	1666.2	1658.3	1663.5	1666.2	1666.2
12.5°	1647.8	1642.6	1650.4	1650.4	1653.1
15°	1626.9	1621.6	1632.1	1637.3	1637.3
17.5°	1603.3	1600.7	1613.8	1616.4	1619.0
20°	1577.1	1574.5	1590.2	1590.2	1595.4
22.5°	1545.7	1543.0	1564.0	1564.0	1569.2
25°	1511.6	1509.0	1532.6	1537.8	1540.4
27.5°	1474.9	1472.3	1495.9	1503.7	1509.0
30°	1433.0	1433.0	1459.2	1469.7	1477.5
32.5°	1385.8	1393.7	1417.3	1433.0	1443.5
35°	1341.3	1351.8	1378.0	1396.3	1409.4
37.5°	1291.5	1302.0	1330.8	1354.4	1370.1
40°	1239.1	1252.2	1286.3	1312.5	1336.1
42.5°	1186.7	1199.8	1236.5	1275.8	1307.3
45°	1126.5	1144.8	1184.1	1239.1	1275.8
47.5°	1066.2	1084.6	1134.4	1202.5	1239.1
50°	1003.4	1024.3	1084.6	1163.2	1202.5
52.5°	937.9	961.4	1037.4	1121.3	1160.5
55°	869.8	898.6	985.0	1074.1	1116.0
57.5°	799.0	830.5	932.6	1026.9	1071.5
60°	725.7	765.0	877.6	977.2	1024.3
62.5°	649.7	696.9	822.6	924.8	974.5
65°	571.1	626.1	765.0	872.4	922.2
67.5°	489.9	563.2	707.3	820.0	869.8
70°	408.7	495.1	647.1	762.3	812.1
72.5°	332.7	432.3	586.8	694.2	704.7
75°	259.4	369.4	523.9	534.4	516.1
77.5°	193.9	306.5	432.3	385.1	382.5
80°	138.8	246.3	277.7	285.6	288.2
82.5°	91.7	186.0	180.8	186.0	183.4
85°	55.0	91.7	94.3	91.7	86.5
87.5°	26.2	34.1	26.2	23.6	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)