

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: P296195

Luminaire Tested: **24RLN-LD5-55-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296195
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-55-RDP-UNV-L82765-W2A1-U-5700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4797.0 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

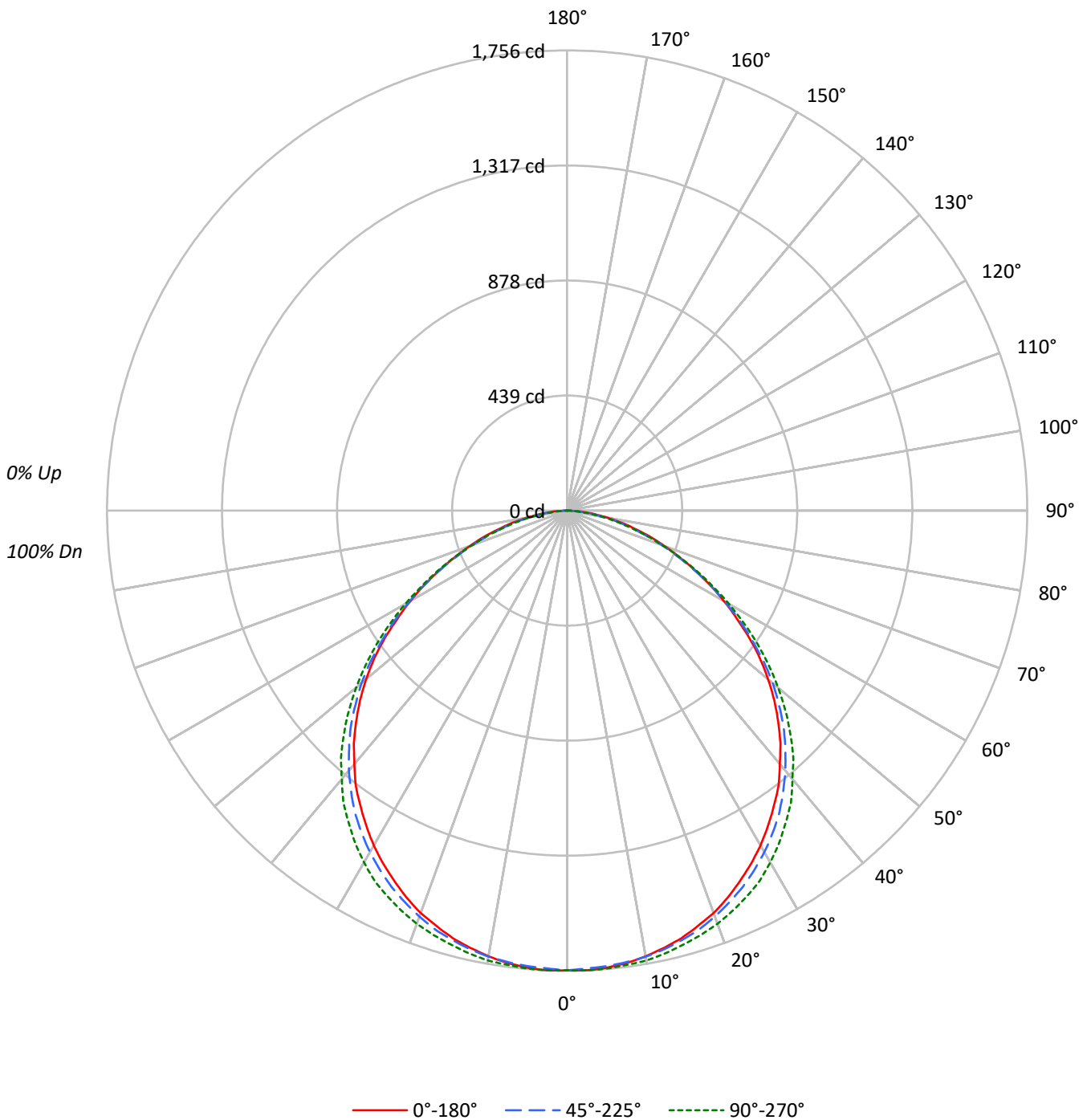
Input Watts (W): 39.432
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2360	2360	2360
5°	2364	2357	2369
10°	2360	2362	2382
15°	2352	2362	2388
20°	2340	2361	2402
25°	2315	2353	2410
30°	2293	2338	2409
35°	2260	2316	2388
40°	2218	2276	2349
45°	2168	2223	2292
50°	2095	2144	2202
55°	1993	2019	2079
60°	1861	1871	1920
65°	1709	1698	1738
70°	1554	1511	1518
75°	1381	1305	1296
80°	1199	1072	1044
85°	983	758	590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.4	3.5
10°-20°	479.6	10.0
20°-30°	732.1	15.3
30°-40°	882.6	18.4
40°-50°	900.1	18.8
50°-60°	770.3	16.1
60°-70°	530.6	11.1
70°-80°	272.0	5.7
80°-90°	63.3	1.3
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°	1378.1	28.7
0°-40°	2260.7	47.1
0°-60°	3931.1	81.9
0°-90°	4797.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4797.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1754	1754	1754	1754	1754	
5°	1751	1747	1745	1751	1754	166
15°	1689	1687	1696	1709	1714	476
25°	1560	1565	1585	1612	1623	719
35°	1376	1381	1410	1441	1454	861
45°	1139	1141	1168	1197	1205	878
55°	850	844	861	879	886	758
65°	537	524	533	537	546	533
75°	266	255	251	251	249	286
85°	64	56	49	44	38	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1754.3	1754.3	1754.3	1754.3	1754.3
2.5°	1756.1	1752.5	1748.8	1752.5	1756.1
5°	1750.6	1747.0	1745.2	1750.6	1754.3
7.5°	1741.5	1737.9	1737.9	1745.2	1748.8
10°	1727.0	1725.2	1728.8	1736.1	1743.4
12.5°	1708.8	1708.8	1714.2	1723.3	1730.6
15°	1688.8	1686.9	1696.0	1708.8	1714.2
17.5°	1661.5	1663.3	1676.0	1690.6	1697.9
20°	1634.2	1636.0	1648.7	1668.8	1677.8
22.5°	1599.6	1603.2	1617.8	1643.3	1652.4
25°	1559.6	1565.0	1585.0	1612.3	1623.3
27.5°	1519.5	1525.0	1546.8	1577.8	1592.3
30°	1475.9	1483.1	1505.0	1537.7	1550.5
32.5°	1426.7	1432.2	1459.5	1492.2	1505.0
35°	1375.8	1381.2	1410.3	1441.3	1454.0
37.5°	1324.8	1324.8	1353.9	1390.3	1403.1
40°	1262.9	1264.8	1295.7	1330.3	1337.5
42.5°	1204.7	1204.7	1232.0	1264.8	1277.5
45°	1139.2	1141.0	1168.3	1197.4	1204.7
47.5°	1071.9	1071.9	1095.5	1122.8	1130.1
50°	1000.9	997.2	1024.5	1046.4	1051.8
52.5°	928.1	922.6	944.5	962.7	970.0
55°	849.8	844.4	860.8	879.0	886.2
57.5°	768.0	760.7	778.9	795.2	798.9
60°	691.5	680.6	695.2	704.3	713.4
62.5°	615.1	602.4	613.3	618.7	626.0
65°	536.8	524.1	533.2	536.8	545.9
67.5°	462.2	453.1	454.9	460.4	464.0
70°	394.9	384.0	384.0	384.0	385.8
72.5°	333.0	316.6	314.8	316.6	316.6
75°	265.7	254.8	251.1	251.1	249.3
77.5°	212.9	198.4	196.5	192.9	189.3
80°	154.7	141.9	138.3	136.5	134.7
82.5°	107.4	96.4	92.8	89.2	83.7
85°	63.7	56.4	49.1	43.7	38.2
87.5°	23.7	21.8	18.2	16.4	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)