

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: P295884

Luminaire Tested: **24RLN-LD5-42-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295884
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-42-UNV-L82765-W2A1-U-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4206.0 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

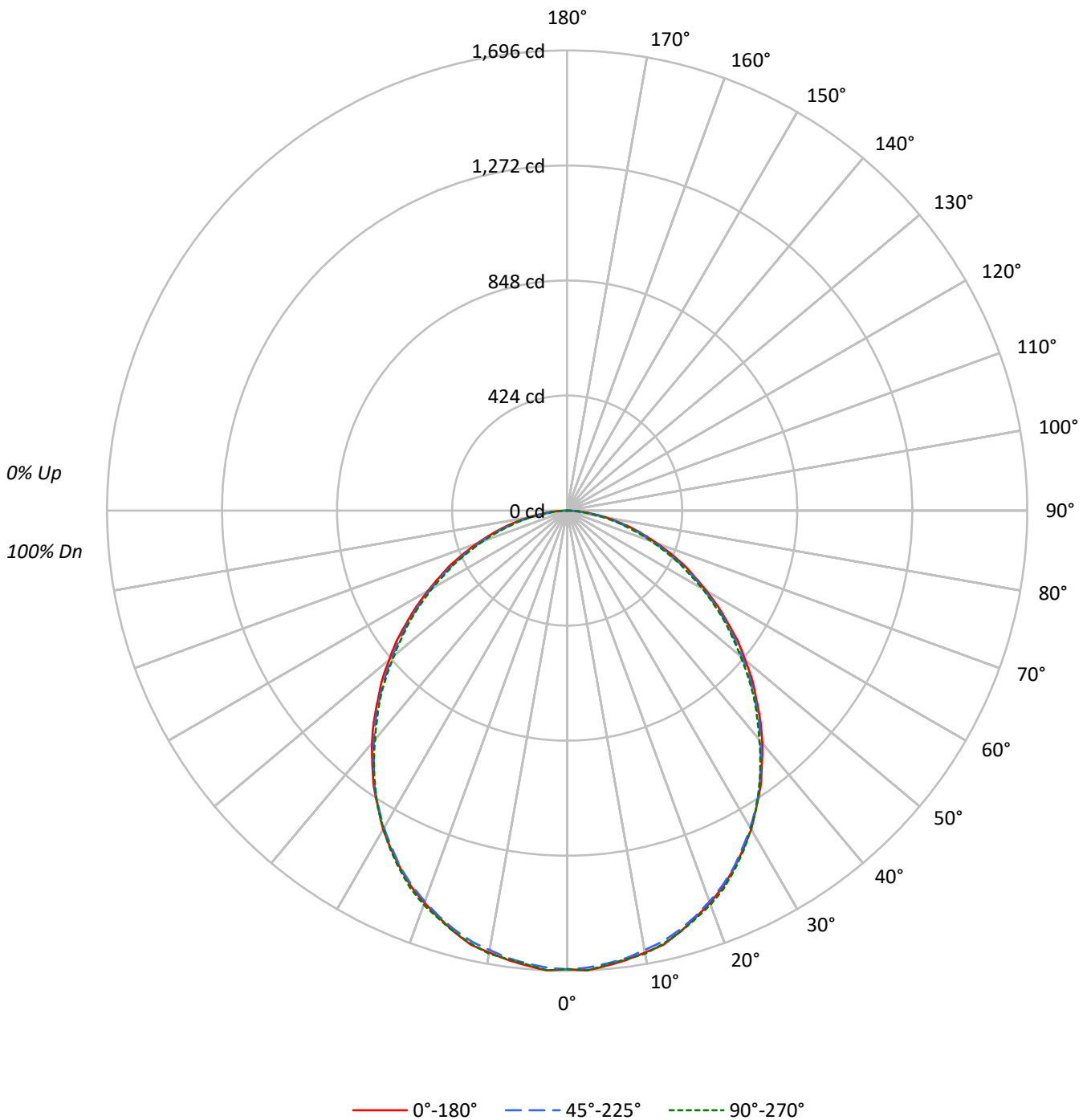
Input Watts (W): 29.481
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P295884

CATALOG NUMBER: 24RLN-LD5-42-UNV-L82765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P295884

CATALOG NUMBER: 24RLN-LD5-42-UNV-L82765-W2A1-U-4000K

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	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2275	2275	2275
5°	2274	2263	2269
10°	2260	2247	2265
15°	2240	2228	2240
20°	2203	2195	2213
25°	2159	2155	2167
30°	2108	2098	2104
35°	2042	2033	2028
40°	1966	1947	1935
45°	1877	1859	1851
50°	1792	1764	1744
55°	1696	1671	1655
60°	1596	1566	1548
65°	1508	1451	1438
70°	1382	1329	1303
75°	1269	1192	1143
80°	1114	1041	978
85°	900	838	712



TEST NUMBER: P295884

CATALOG NUMBER: 24RLN-LD5-42-UNV-L82765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.5	3.8
10°-20°	452.2	10.8
20°-30°	669.0	15.9
30°-40°	772.0	18.4
40°-50°	754.0	17.9
50°-60°	636.7	15.1
60°-70°	453.5	10.8
70°-80°	245.6	5.8
80°-90°	63.4	1.5
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°	1280.7	30.4
0°-40°	2052.7	48.8
0°-60°	3443.5	81.9
0°-90°	4206.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4206.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1691	1691	1691	1691	1691	
5°	1684	1684	1676	1680	1680	160
15°	1608	1601	1600	1607	1608	453
25°	1455	1446	1452	1457	1460	670
35°	1243	1233	1238	1233	1235	776
45°	986	978	977	973	973	763
55°	723	714	712	706	706	648
65°	474	464	456	450	452	467
75°	244	236	229	224	220	258
85°	58	57	54	48	46	69
90°	0	0	0	0	0	



TEST NUMBER: P295884

CATALOG NUMBER: 24RLN-LD5-42-UNV-L82765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1690.7	1690.7	1690.7	1690.7	1690.7
2.5°	1696.1	1689.3	1686.6	1688.0	1696.1
5°	1683.9	1683.9	1675.8	1679.8	1679.8
7.5°	1670.3	1671.7	1663.6	1670.3	1667.6
10°	1654.1	1650.0	1644.6	1655.4	1658.1
12.5°	1639.1	1629.6	1626.9	1633.7	1635.1
15°	1607.9	1601.1	1599.8	1606.6	1607.9
17.5°	1572.6	1574.0	1568.6	1578.1	1576.7
20°	1538.7	1536.0	1533.3	1544.1	1545.5
22.5°	1500.7	1492.6	1495.3	1504.8	1507.5
25°	1454.6	1446.5	1451.9	1457.3	1460.0
27.5°	1405.7	1401.7	1400.3	1407.1	1409.8
30°	1356.9	1350.1	1350.1	1358.3	1354.2
32.5°	1297.2	1291.8	1294.5	1297.2	1298.5
35°	1242.9	1233.4	1237.5	1233.4	1234.8
37.5°	1179.1	1172.4	1171.0	1169.6	1169.6
40°	1119.4	1114.0	1108.6	1108.6	1101.8
42.5°	1054.3	1047.5	1044.8	1040.7	1036.7
45°	986.5	978.3	977.0	972.9	972.9
47.5°	925.4	913.2	911.8	903.7	903.7
50°	856.2	848.1	842.6	837.2	833.1
52.5°	793.8	785.6	777.5	772.1	768.0
55°	723.2	713.7	712.4	705.6	705.6
57.5°	659.5	651.3	645.9	637.7	639.1
60°	593.0	584.8	582.1	575.3	575.3
62.5°	530.5	523.8	519.7	512.9	507.5
65°	473.6	464.1	455.9	450.5	451.8
67.5°	411.1	400.3	396.2	390.8	386.7
70°	351.4	344.7	337.9	331.1	331.1
72.5°	295.8	289.0	284.9	276.8	274.1
75°	244.2	236.1	229.3	223.9	219.8
77.5°	192.7	184.5	180.5	173.7	173.7
80°	143.8	138.4	134.3	131.6	126.2
82.5°	99.1	96.3	92.3	88.2	84.1
85°	58.3	57.0	54.3	47.5	46.1
87.5°	23.1	23.1	20.4	19.0	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)