

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: P295874

Luminaire Tested: **24RLN-LD5-36-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295874
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-LD5-36-UNV-L82765-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3587.0 lumens
Efficiency: N/A
Efficacy: 141.8 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

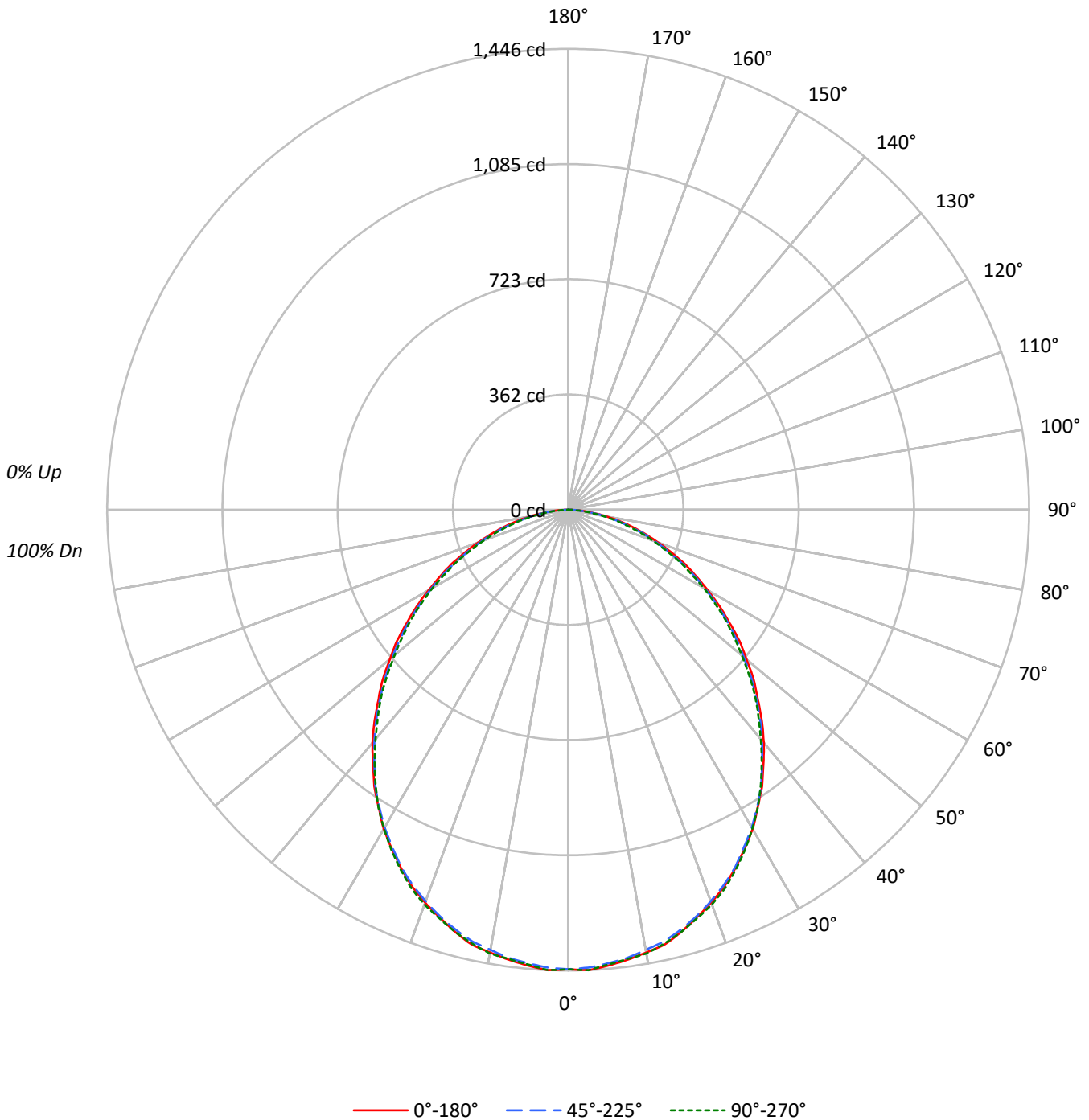
Input Watts (W): 25.296
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P295874

CATALOG NUMBER: 24RLN-LD5-36-UNV-L82765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P295874

CATALOG NUMBER: 24RLN-LD5-36-UNV-L82765-W2A1-U-3500K

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°	1940	1940	1940
5°	1940	1930	1935
10°	1927	1916	1932
15°	1910	1900	1910
20°	1879	1872	1887
25°	1842	1838	1848
30°	1798	1789	1794
35°	1741	1734	1730
40°	1677	1661	1650
45°	1601	1585	1579
50°	1528	1504	1487
55°	1447	1425	1411
60°	1361	1336	1320
65°	1286	1238	1227
70°	1179	1133	1111
75°	1083	1017	975
80°	951	888	834
85°	769	715	607



TEST NUMBER: P295874

CATALOG NUMBER: 24RLN-LD5-36-UNV-L82765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	3.8
10°-20°	385.7	10.8
20°-30°	570.5	15.9
30°-40°	658.4	18.4
40°-50°	643.1	17.9
50°-60°	543.0	15.1
60°-70°	386.8	10.8
70°-80°	209.4	5.8
80°-90°	54.0	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°	1092.2	30.4
0°-40°	1750.6	48.8
0°-60°	2936.7	81.9
0°-90°	3587.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3587.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1442	1442	1442	1442	1442	
5°	1436	1436	1429	1433	1433	136
15°	1371	1366	1364	1370	1371	386
25°	1240	1234	1238	1243	1245	571
35°	1060	1052	1055	1052	1053	662
45°	841	834	833	830	830	651
55°	617	609	608	602	602	553
65°	404	396	389	384	385	398
75°	208	201	196	191	188	220
85°	50	49	46	40	39	59
90°	0	0	0	0	0	



TEST NUMBER: P295874

CATALOG NUMBER: 24RLN-LD5-36-UNV-L82765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1441.9	1441.9	1441.9	1441.9	1441.9
2.5°	1446.5	1440.7	1438.4	1439.6	1446.5
5°	1436.1	1436.1	1429.1	1432.6	1432.6
7.5°	1424.5	1425.7	1418.7	1424.5	1422.2
10°	1410.6	1407.2	1402.5	1411.8	1414.1
12.5°	1397.9	1389.8	1387.5	1393.3	1394.4
15°	1371.3	1365.5	1364.3	1370.1	1371.3
17.5°	1341.2	1342.4	1337.7	1345.8	1344.7
20°	1312.3	1310.0	1307.6	1316.9	1318.1
22.5°	1279.9	1272.9	1275.2	1283.3	1285.6
25°	1240.5	1233.6	1238.2	1242.8	1245.1
27.5°	1198.9	1195.4	1194.2	1200.0	1202.3
30°	1157.2	1151.4	1151.4	1158.4	1154.9
32.5°	1106.3	1101.7	1104.0	1106.3	1107.4
35°	1060.0	1051.9	1055.4	1051.9	1053.1
37.5°	1005.6	999.8	998.7	997.5	997.5
40°	954.7	950.1	945.4	945.4	939.6
42.5°	899.1	893.4	891.0	887.6	884.1
45°	841.3	834.3	833.2	829.7	829.7
47.5°	789.2	778.8	777.6	770.7	770.7
50°	730.2	723.3	718.6	714.0	710.5
52.5°	677.0	670.0	663.1	658.4	655.0
55°	616.8	608.7	607.5	601.7	601.7
57.5°	562.4	555.5	550.8	543.9	545.0
60°	505.7	498.8	496.4	490.7	490.7
62.5°	452.5	446.7	443.2	437.4	432.8
65°	403.9	395.8	388.8	384.2	385.3
67.5°	350.6	341.4	337.9	333.3	329.8
70°	299.7	293.9	288.1	282.4	282.4
72.5°	252.3	246.5	243.0	236.1	233.8
75°	208.3	201.4	195.6	190.9	187.5
77.5°	164.3	157.4	153.9	148.1	148.1
80°	122.7	118.0	114.6	112.2	107.6
82.5°	84.5	82.2	78.7	75.2	71.7
85°	49.8	48.6	46.3	40.5	39.3
87.5°	19.7	19.7	17.4	16.2	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)