

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: P295878

Luminaire Tested: **24RLN-LD5-36-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295878
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-5500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3819.0 lumens
Efficiency: N/A
Efficacy: 147.2 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

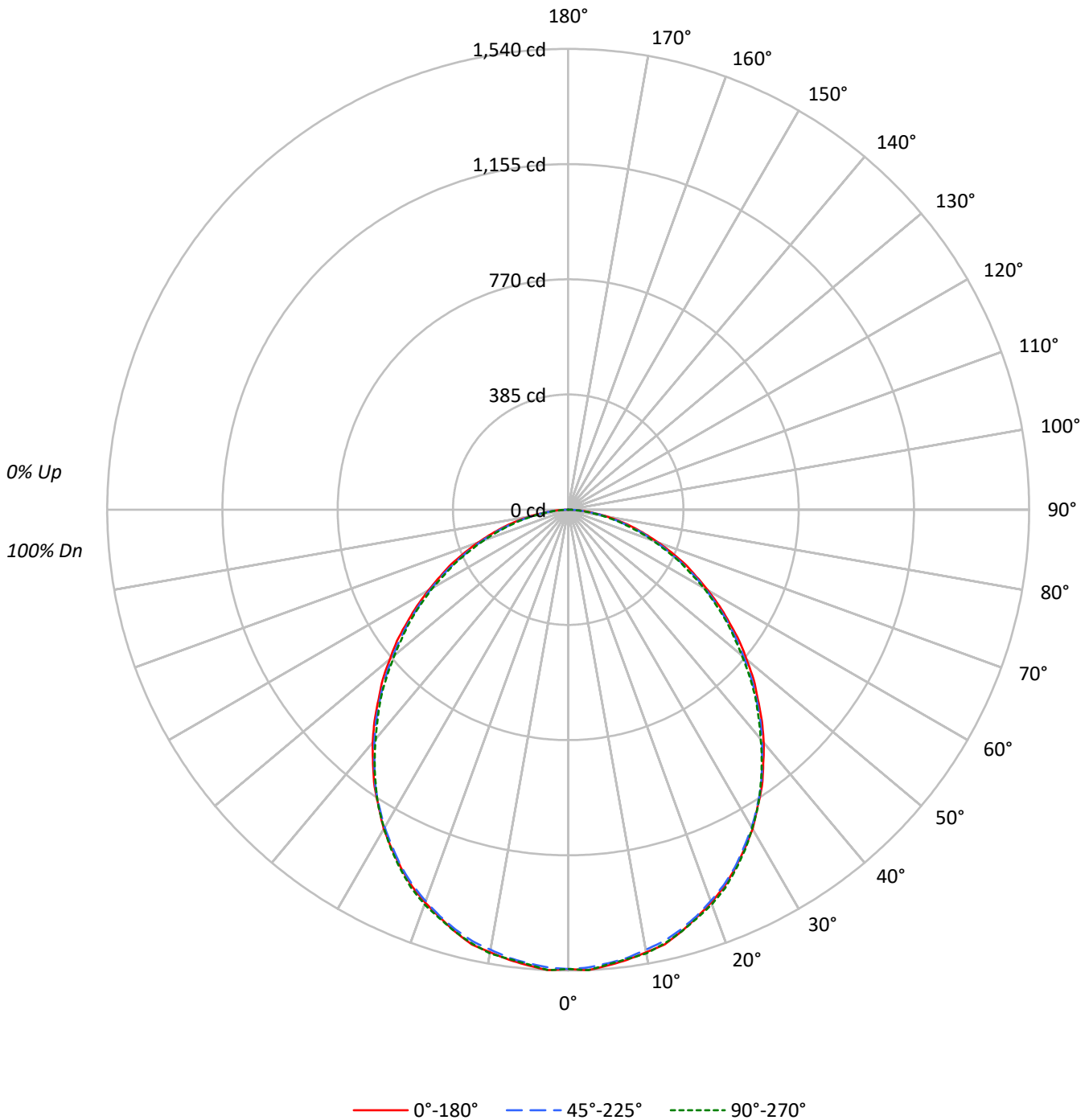
Input Watts (W): 25.947
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P295878

CATALOG NUMBER: 24RLN-LD5-36-UNV-L82765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P295878

CATALOG NUMBER: 24RLN-LD5-36-UNV-L82765-W2A1-U-5500K

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°	2065	2065	2065
5°	2065	2055	2060
10°	2052	2040	2057
15°	2034	2023	2034
20°	2000	1993	2009
25°	1961	1957	1968
30°	1914	1905	1910
35°	1854	1846	1842
40°	1785	1768	1757
45°	1704	1688	1681
50°	1627	1602	1584
55°	1540	1517	1503
60°	1449	1422	1406
65°	1369	1318	1306
70°	1255	1207	1183
75°	1153	1082	1038
80°	1012	945	888
85°	818	761	647



TEST NUMBER: P295878

CATALOG NUMBER: 24RLN-LD5-36-UNV-L82765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.8	3.8
10°-20°	410.6	10.8
20°-30°	607.4	15.9
30°-40°	701.0	18.4
40°-50°	684.7	17.9
50°-60°	578.2	15.1
60°-70°	411.8	10.8
70°-80°	223.0	5.8
80°-90°	57.5	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°	1162.9	30.4
0°-40°	1863.9	48.8
0°-60°	3126.7	81.9
0°-90°	3819.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3819.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1535	1535	1535	1535	1535	
5°	1529	1529	1522	1525	1525	145
15°	1460	1454	1453	1459	1460	411
25°	1321	1313	1318	1323	1326	608
35°	1129	1120	1124	1120	1121	704
45°	896	888	887	883	883	693
55°	657	648	647	641	641	589
65°	430	421	414	409	410	424
75°	222	214	208	203	200	235
85°	53	52	49	43	42	62
90°	0	0	0	0	0	



TEST NUMBER: P295878

CATALOG NUMBER: 24RLN-LD5-36-UNV-L82765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1535.1	1535.1	1535.1	1535.1	1535.1
2.5°	1540.1	1533.9	1531.4	1532.7	1540.1
5°	1529.0	1529.0	1521.6	1525.3	1525.3
7.5°	1516.6	1517.9	1510.5	1516.6	1514.2
10°	1501.9	1498.2	1493.2	1503.1	1505.6
12.5°	1488.3	1479.7	1477.2	1483.4	1484.6
15°	1460.0	1453.8	1452.6	1458.7	1460.0
17.5°	1427.9	1429.2	1424.2	1432.9	1431.6
20°	1397.1	1394.7	1392.2	1402.1	1403.3
22.5°	1362.6	1355.3	1357.7	1366.3	1368.8
25°	1320.8	1313.4	1318.3	1323.2	1325.7
27.5°	1276.4	1272.7	1271.5	1277.6	1280.1
30°	1232.0	1225.9	1225.9	1233.3	1229.6
32.5°	1177.8	1172.9	1175.4	1177.8	1179.1
35°	1128.6	1119.9	1123.6	1119.9	1121.2
37.5°	1070.6	1064.5	1063.3	1062.0	1062.0
40°	1016.4	1011.5	1006.6	1006.6	1000.4
42.5°	957.3	951.1	948.7	945.0	941.3
45°	895.7	888.3	887.1	883.4	883.4
47.5°	840.3	829.2	827.9	820.5	820.5
50°	777.4	770.0	765.1	760.2	756.5
52.5°	720.7	713.4	706.0	701.0	697.3
55°	656.7	648.1	646.8	640.7	640.7
57.5°	598.8	591.4	586.5	579.1	580.3
60°	538.4	531.0	528.5	522.4	522.4
62.5°	481.7	475.6	471.9	465.7	460.8
65°	430.0	421.4	414.0	409.0	410.3
67.5°	373.3	363.5	359.8	354.8	351.1
70°	319.1	312.9	306.8	300.6	300.6
72.5°	268.6	262.4	258.7	251.3	248.9
75°	221.8	214.4	208.2	203.3	199.6
77.5°	175.0	167.6	163.9	157.7	157.7
80°	130.6	125.7	122.0	119.5	114.6
82.5°	89.9	87.5	83.8	80.1	76.4
85°	53.0	51.7	49.3	43.1	41.9
87.5°	20.9	20.9	18.5	17.2	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)