

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: P295882

Luminaire Tested: **24RLN-LD5-42-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295882
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-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3978.0 lumens
Efficiency: N/A
Efficacy: 137.5 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

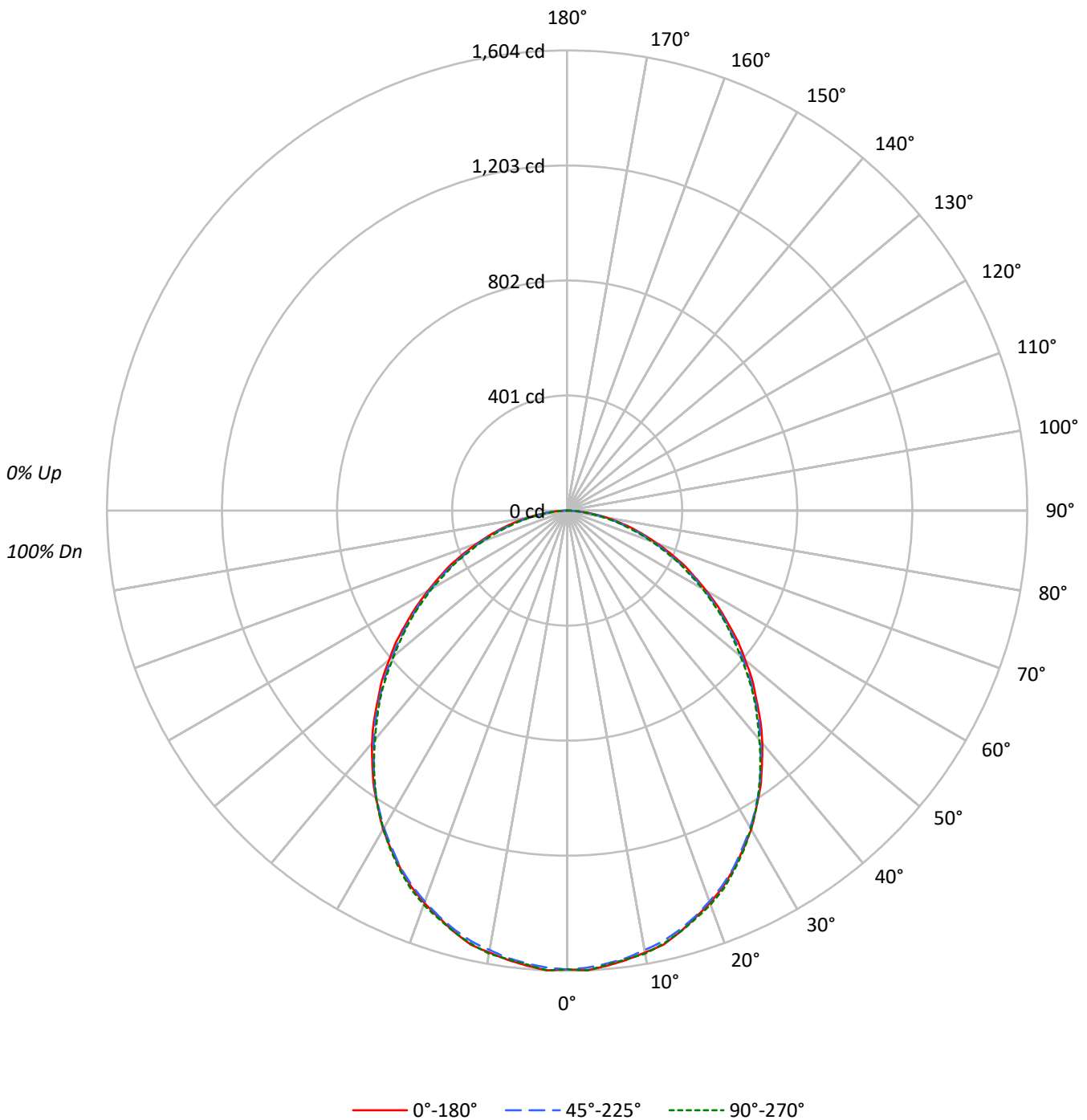
Input Watts (W): 28.923
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2151	2151	2151
5°	2151	2141	2146
10°	2137	2125	2143
15°	2118	2108	2118
20°	2084	2076	2093
25°	2042	2039	2050
30°	1994	1984	1990
35°	1931	1922	1918
40°	1860	1842	1830
45°	1775	1758	1751
50°	1695	1668	1649
55°	1605	1581	1565
60°	1509	1482	1464
65°	1426	1373	1361
70°	1308	1257	1232
75°	1201	1128	1081
80°	1054	985	925
85°	852	792	673



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.9	3.8
10°-20°	427.7	10.8
20°-30°	632.7	15.9
30°-40°	730.2	18.4
40°-50°	713.2	17.9
50°-60°	602.2	15.1
60°-70°	429.0	10.8
70°-80°	232.3	5.8
80°-90°	59.9	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°	1211.3	30.4
0°-40°	1941.5	48.8
0°-60°	3256.9	81.9
0°-90°	3978.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3978.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1599	1599	1599	1599	1599	
5°	1593	1593	1585	1589	1589	151
15°	1521	1514	1513	1520	1521	428
25°	1376	1368	1373	1378	1381	633
35°	1176	1167	1170	1167	1168	734
45°	933	925	924	920	920	721
55°	684	675	674	667	667	613
65°	448	439	431	426	427	442
75°	231	223	217	212	208	244
85°	55	54	51	45	44	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1599.0	1599.0	1599.0	1599.0	1599.0
2.5°	1604.2	1597.8	1595.2	1596.5	1604.2
5°	1592.6	1592.6	1584.9	1588.8	1588.8
7.5°	1579.8	1581.1	1573.4	1579.8	1577.2
10°	1564.4	1560.5	1555.4	1565.7	1568.2
12.5°	1550.3	1541.3	1538.7	1545.1	1546.4
15°	1520.8	1514.3	1513.1	1519.5	1520.8
17.5°	1487.4	1488.7	1483.5	1492.5	1491.2
20°	1455.3	1452.7	1450.2	1460.4	1461.7
22.5°	1419.4	1411.7	1414.2	1423.2	1425.8
25°	1375.7	1368.0	1373.2	1378.3	1380.9
27.5°	1329.5	1325.7	1324.4	1330.8	1333.4
30°	1283.3	1276.9	1276.9	1284.6	1280.8
32.5°	1226.9	1221.7	1224.3	1226.9	1228.2
35°	1175.5	1166.6	1170.4	1166.6	1167.8
37.5°	1115.2	1108.8	1107.5	1106.2	1106.2
40°	1058.8	1053.6	1048.5	1048.5	1042.1
42.5°	997.2	990.7	988.2	984.3	980.5
45°	933.0	925.3	924.0	920.2	920.2
47.5°	875.2	863.7	862.4	854.7	854.7
50°	809.8	802.1	797.0	791.8	788.0
52.5°	750.8	743.1	735.4	730.2	726.4
55°	684.0	675.0	673.8	667.3	667.3
57.5°	623.7	616.0	610.9	603.2	604.5
60°	560.8	553.1	550.6	544.1	544.1
62.5°	501.8	495.4	491.5	485.1	480.0
65°	447.9	438.9	431.2	426.1	427.4
67.5°	388.9	378.6	374.7	369.6	365.8
70°	332.4	326.0	319.6	313.1	313.1
72.5°	279.8	273.4	269.5	261.8	259.2
75°	231.0	223.3	216.9	211.8	207.9
77.5°	182.2	174.5	170.7	164.3	164.3
80°	136.0	130.9	127.1	124.5	119.4
82.5°	93.7	91.1	87.3	83.4	79.6
85°	55.2	53.9	51.3	44.9	43.6
87.5°	21.8	21.8	19.3	18.0	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)