

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: P296024

Luminaire Tested: **24RLN-LD5-42-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296024
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-L92765-W2A1-U-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3722.0 lumens
Efficiency: N/A
Efficacy: 126.3 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

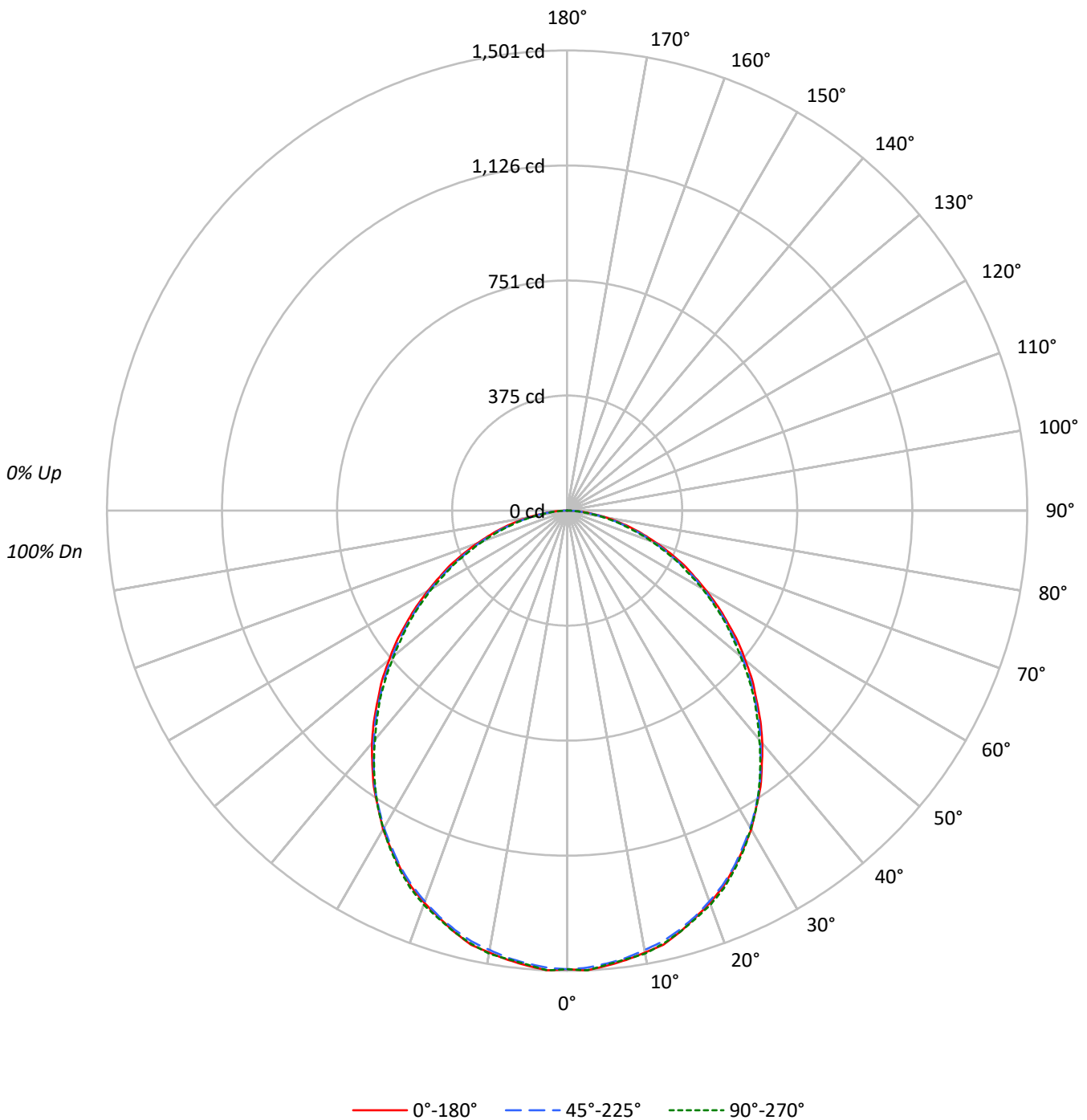
Input Watts (W): 29.481
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2013	2013	2013
5°	2013	2003	2008
10°	2000	1988	2005
15°	1982	1972	1982
20°	1950	1943	1958
25°	1911	1907	1918
30°	1866	1856	1862
35°	1807	1799	1795
40°	1740	1723	1713
45°	1661	1645	1638
50°	1586	1561	1543
55°	1501	1479	1465
60°	1412	1386	1370
65°	1334	1285	1273
70°	1223	1176	1153
75°	1123	1055	1011
80°	986	921	865
85°	797	741	630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.2	3.8
10°-20°	400.2	10.8
20°-30°	592.0	15.9
30°-40°	683.2	18.4
40°-50°	667.3	17.9
50°-60°	563.5	15.1
60°-70°	401.3	10.8
70°-80°	217.3	5.8
80°-90°	56.1	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°	1133.3	30.4
0°-40°	1816.5	48.8
0°-60°	3047.3	81.9
0°-90°	3722.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3722.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1496	1496	1496	1496	1496	
5°	1490	1490	1483	1486	1486	141
15°	1423	1417	1416	1422	1423	401
25°	1287	1280	1285	1290	1292	593
35°	1100	1092	1095	1092	1093	686
45°	873	866	864	861	861	675
55°	640	632	630	624	624	574
65°	419	411	404	399	400	413
75°	216	209	203	198	194	229
85°	52	50	48	42	41	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1496.1	1496.1	1496.1	1496.1	1496.1
2.5°	1500.9	1494.9	1492.5	1493.7	1500.9
5°	1490.1	1490.1	1482.9	1486.5	1486.5
7.5°	1478.1	1479.3	1472.1	1478.1	1475.7
10°	1463.7	1460.1	1455.3	1464.9	1467.3
12.5°	1450.5	1442.1	1439.7	1445.7	1446.9
15°	1422.9	1416.9	1415.7	1421.7	1422.9
17.5°	1391.7	1392.9	1388.1	1396.5	1395.3
20°	1361.7	1359.3	1356.9	1366.5	1367.7
22.5°	1328.0	1320.8	1323.2	1331.6	1334.0
25°	1287.2	1280.0	1284.8	1289.6	1292.0
27.5°	1244.0	1240.4	1239.2	1245.2	1247.6
30°	1200.8	1194.7	1194.7	1202.0	1198.4
32.5°	1147.9	1143.1	1145.5	1147.9	1149.1
35°	1099.9	1091.5	1095.1	1091.5	1092.7
37.5°	1043.5	1037.5	1036.2	1035.0	1035.0
40°	990.6	985.8	981.0	981.0	975.0
42.5°	933.0	927.0	924.6	921.0	917.4
45°	872.9	865.7	864.5	860.9	860.9
47.5°	818.9	808.1	806.9	799.7	799.7
50°	757.7	750.5	745.7	740.9	737.3
52.5°	702.4	695.2	688.0	683.2	679.6
55°	640.0	631.6	630.4	624.4	624.4
57.5°	583.6	576.4	571.6	564.4	565.6
60°	524.7	517.5	515.1	509.1	509.1
62.5°	469.5	463.5	459.9	453.9	449.1
65°	419.1	410.7	403.5	398.6	399.9
67.5°	363.8	354.2	350.6	345.8	342.2
70°	311.0	305.0	299.0	293.0	293.0
72.5°	261.8	255.8	252.2	245.0	242.6
75°	216.1	208.9	202.9	198.1	194.5
77.5°	170.5	163.3	159.7	153.7	153.7
80°	127.3	122.5	118.9	116.5	111.7
82.5°	87.7	85.3	81.7	78.0	74.4
85°	51.6	50.4	48.0	42.0	40.8
87.5°	20.4	20.4	18.0	16.8	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)