

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: P296029

Luminaire Tested: **24RLN-LD5-42-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296029
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-6500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3999.0 lumens
Efficiency: N/A
Efficacy: 131.1 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

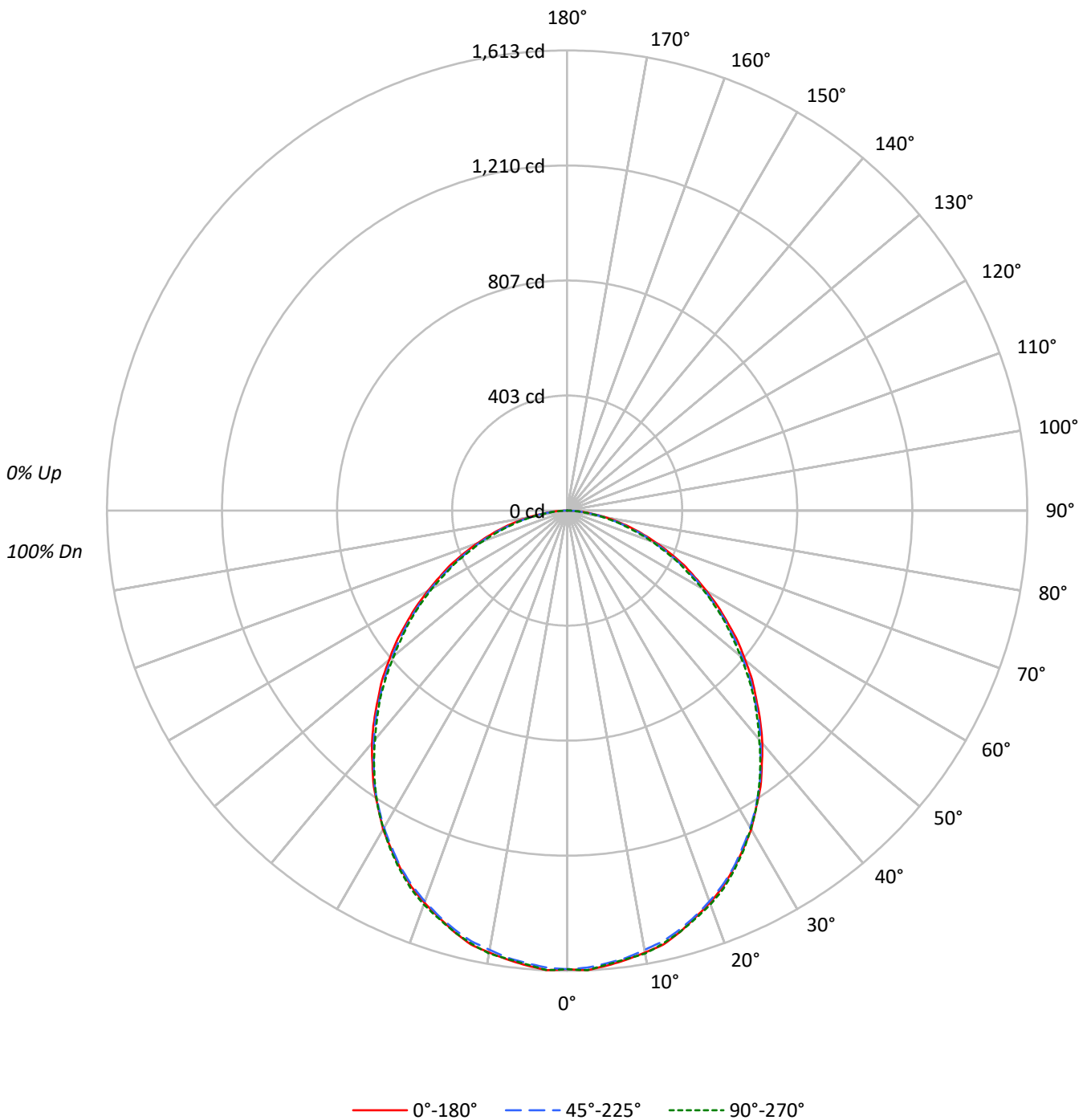
Input Watts (W): 30.504
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52					52			
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46					46			
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40					40			
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36					36			
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29					29			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2163	2163	2163
5°	2162	2152	2157
10°	2149	2136	2154
15°	2130	2119	2130
20°	2095	2087	2104
25°	2053	2049	2061
30°	2004	1994	2000
35°	1941	1933	1928
40°	1869	1851	1840
45°	1785	1768	1760
50°	1704	1677	1658
55°	1613	1589	1574
60°	1517	1489	1472
65°	1434	1380	1368
70°	1314	1264	1238
75°	1207	1133	1087
80°	1060	989	930
85°	857	797	678



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.7	3.8
10°-20°	430.0	10.8
20°-30°	636.0	15.9
30°-40°	734.0	18.4
40°-50°	716.9	17.9
50°-60°	605.4	15.1
60°-70°	431.2	10.8
70°-80°	233.5	5.8
80°-90°	60.3	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°	1217.7	30.4
0°-40°	1951.7	48.8
0°-60°	3274.1	81.9
0°-90°	3999.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3999.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1608	1608	1608	1608	1608	
5°	1601	1601	1593	1597	1597	152
15°	1529	1522	1521	1528	1529	431
25°	1383	1375	1380	1386	1388	637
35°	1182	1173	1177	1173	1174	737
45°	938	930	929	925	925	725
55°	688	679	677	671	671	616
65°	450	441	434	428	430	444
75°	232	224	218	213	209	246
85°	56	54	52	45	44	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1607.5	1607.5	1607.5	1607.5	1607.5
2.5°	1612.6	1606.2	1603.6	1604.9	1612.6
5°	1601.0	1601.0	1593.3	1597.2	1597.2
7.5°	1588.1	1589.4	1581.7	1588.1	1585.6
10°	1572.7	1568.8	1563.6	1573.9	1576.5
12.5°	1558.5	1549.4	1546.8	1553.3	1554.6
15°	1528.8	1522.3	1521.0	1527.5	1528.8
17.5°	1495.2	1496.5	1491.4	1500.4	1499.1
20°	1463.0	1460.4	1457.8	1468.2	1469.4
22.5°	1426.9	1419.1	1421.7	1430.7	1433.3
25°	1383.0	1375.3	1380.4	1385.6	1388.2
27.5°	1336.6	1332.7	1331.4	1337.9	1340.4
30°	1290.1	1283.7	1283.7	1291.4	1287.5
32.5°	1233.4	1228.2	1230.8	1233.4	1234.6
35°	1181.7	1172.7	1176.6	1172.7	1174.0
37.5°	1121.1	1114.7	1113.4	1112.1	1112.1
40°	1064.3	1059.2	1054.0	1054.0	1047.6
42.5°	1002.4	996.0	993.4	989.5	985.6
45°	937.9	930.2	928.9	925.0	925.0
47.5°	879.9	868.2	867.0	859.2	859.2
50°	814.1	806.3	801.2	796.0	792.1
52.5°	754.7	747.0	739.2	734.1	730.2
55°	687.6	678.6	677.3	670.9	670.9
57.5°	627.0	619.3	614.1	606.4	607.6
60°	563.8	556.0	553.5	547.0	547.0
62.5°	504.4	498.0	494.1	487.7	482.5
65°	450.3	441.2	433.5	428.3	429.6
67.5°	390.9	380.6	376.7	371.6	367.7
70°	334.1	327.7	321.2	314.8	314.8
72.5°	281.2	274.8	270.9	263.2	260.6
75°	232.2	224.5	218.0	212.9	209.0
77.5°	183.2	175.5	171.6	165.1	165.1
80°	136.8	131.6	127.7	125.1	120.0
82.5°	94.2	91.6	87.7	83.9	80.0
85°	55.5	54.2	51.6	45.2	43.9
87.5°	21.9	21.9	19.4	18.1	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)