

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: P296021

Luminaire Tested: **24RLN-LD5-42-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296021
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-2700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3302.0 lumens
Efficiency: N/A
Efficacy: 113.8 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

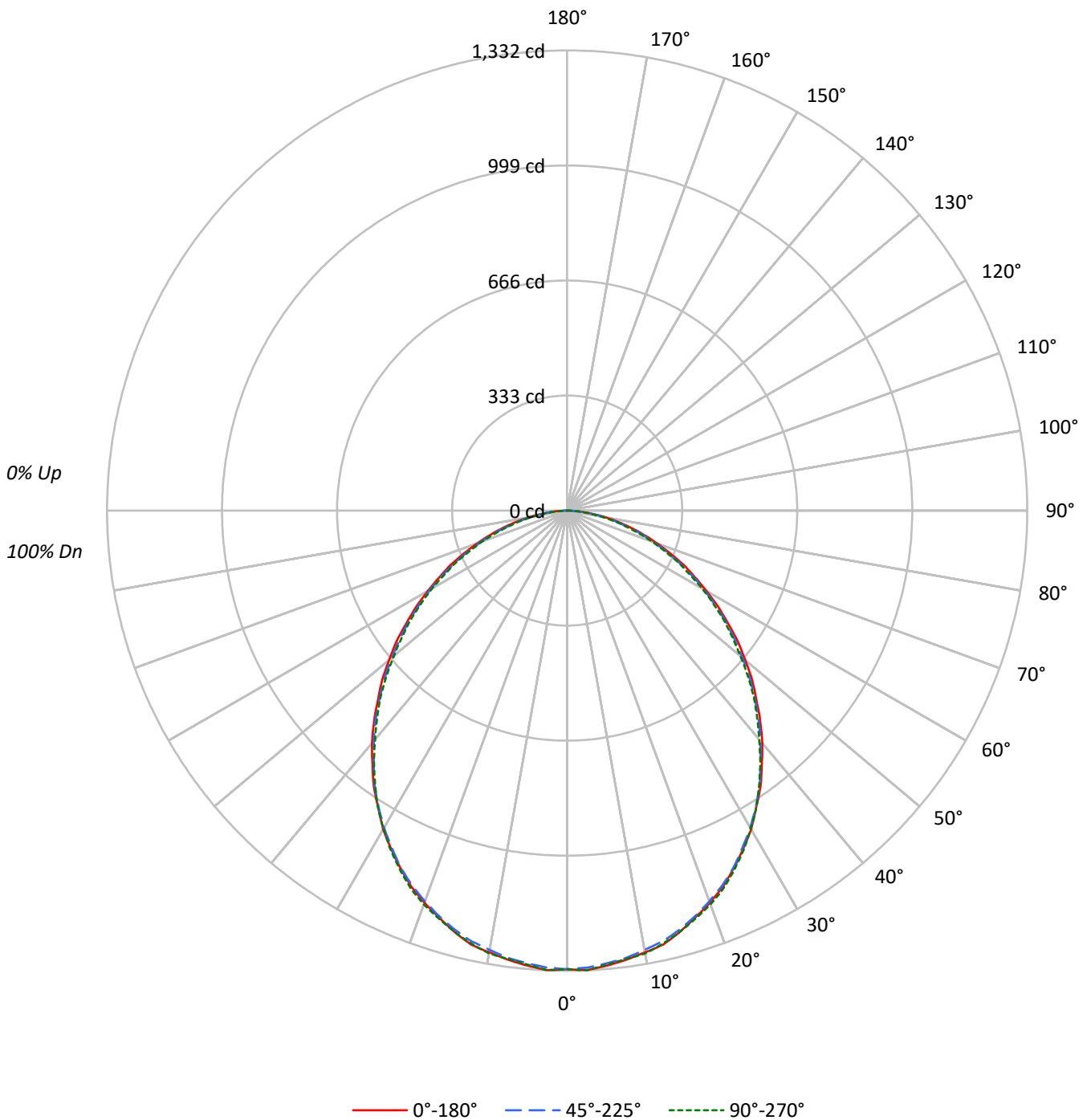
Input Watts (W): 29.016
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1786	1786	1786
5°	1786	1777	1781
10°	1774	1764	1778
15°	1758	1749	1758
20°	1730	1724	1737
25°	1695	1692	1702
30°	1655	1647	1652
35°	1603	1596	1592
40°	1544	1529	1519
45°	1474	1459	1453
50°	1407	1385	1369
55°	1332	1312	1299
60°	1253	1230	1216
65°	1184	1139	1129
70°	1085	1043	1022
75°	997	936	897
80°	875	817	768
85°	707	658	559



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.2	3.8
10°-20°	355.0	10.8
20°-30°	525.2	15.9
30°-40°	606.1	18.4
40°-50°	592.0	17.9
50°-60°	499.9	15.1
60°-70°	356.1	10.8
70°-80°	192.8	5.8
80°-90°	49.7	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°	1005.4	30.4
0°-40°	1611.6	48.8
0°-60°	2703.4	81.9
0°-90°	3302.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3302.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1327	1327	1327	1327	1327	
5°	1322	1322	1316	1319	1319	125
15°	1262	1257	1256	1261	1262	356
25°	1142	1136	1140	1144	1146	526
35°	976	968	972	968	969	609
45°	774	768	767	764	764	599
55°	568	560	559	554	554	509
65°	372	364	358	354	355	367
75°	192	185	180	176	173	203
85°	46	45	43	37	36	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1327.3	1327.3	1327.3	1327.3	1327.3
2.5°	1331.6	1326.2	1324.1	1325.2	1331.6
5°	1322.0	1322.0	1315.6	1318.8	1318.8
7.5°	1311.3	1312.4	1306.0	1311.3	1309.2
10°	1298.5	1295.4	1291.1	1299.6	1301.7
12.5°	1286.8	1279.4	1277.2	1282.6	1283.6
15°	1262.3	1257.0	1255.9	1261.3	1262.3
17.5°	1234.6	1235.7	1231.4	1238.9	1237.8
20°	1208.0	1205.9	1203.7	1212.3	1213.3
22.5°	1178.2	1171.8	1173.9	1181.4	1183.5
25°	1142.0	1135.6	1139.8	1144.1	1146.2
27.5°	1103.6	1100.4	1099.3	1104.7	1106.8
30°	1065.3	1059.9	1059.9	1066.3	1063.1
32.5°	1018.4	1014.1	1016.3	1018.4	1019.5
35°	975.8	968.3	971.5	968.3	969.4
37.5°	925.7	920.4	919.3	918.3	918.3
40°	878.8	874.6	870.3	870.3	865.0
42.5°	827.7	822.4	820.2	817.1	813.9
45°	774.4	768.1	767.0	763.8	763.8
47.5°	726.5	716.9	715.9	709.5	709.5
50°	672.2	665.8	661.5	657.3	654.1
52.5°	623.2	616.8	610.4	606.1	602.9
55°	567.8	560.3	559.3	553.9	553.9
57.5°	517.7	511.3	507.1	500.7	501.7
60°	465.5	459.1	457.0	451.7	451.7
62.5°	416.5	411.2	408.0	402.7	398.4
65°	371.8	364.3	357.9	353.7	354.7
67.5°	322.8	314.3	311.1	306.8	303.6
70°	275.9	270.6	265.2	259.9	259.9
72.5°	232.2	226.9	223.7	217.3	215.2
75°	191.7	185.4	180.0	175.8	172.6
77.5°	151.3	144.9	141.7	136.4	136.4
80°	112.9	108.7	105.5	103.3	99.1
82.5°	77.8	75.6	72.4	69.2	66.0
85°	45.8	44.7	42.6	37.3	36.2
87.5°	18.1	18.1	16.0	14.9	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)