

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: P296023

Luminaire Tested: **24RLN-LD5-42-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296023  
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-3500K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3605.0 lumens  
Efficiency: N/A  
Efficacy: 123.5 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

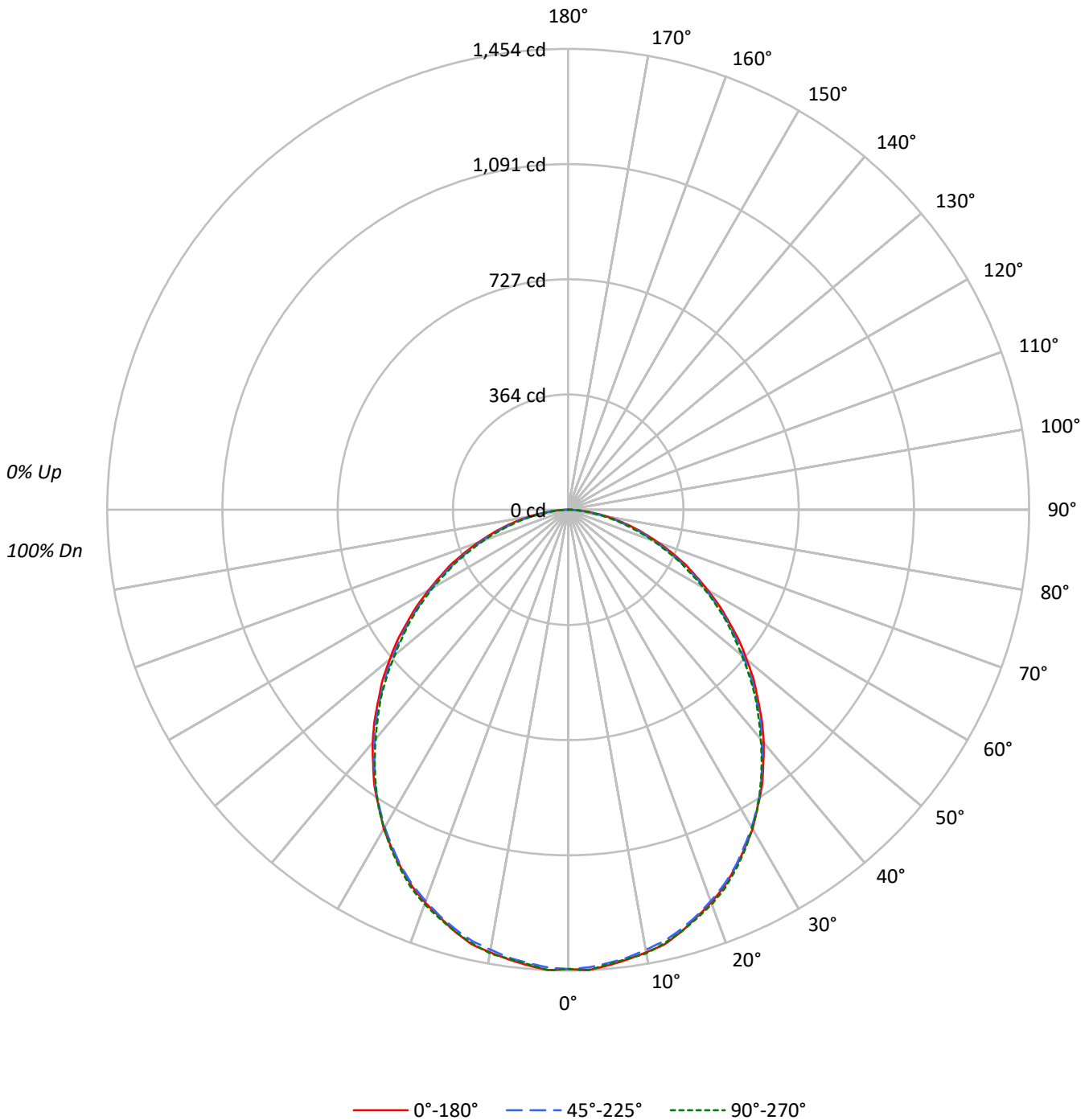
Input Watts (W): 29.202  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1950	1950	1950
5°	1949	1940	1945
10°	1937	1926	1942
15°	1920	1910	1920
20°	1888	1882	1897
25°	1851	1847	1858
30°	1807	1798	1803
35°	1750	1742	1738
40°	1685	1669	1659
45°	1609	1593	1587
50°	1536	1512	1495
55°	1454	1432	1419
60°	1368	1343	1327
65°	1292	1244	1233
70°	1185	1139	1116
75°	1088	1022	979
80°	955	892	838
85°	772	718	610



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.7	3.8
10°-20°	387.6	10.8
20°-30°	573.4	15.9
30°-40°	661.7	18.4
40°-50°	646.3	17.9
50°-60°	545.8	15.1
60°-70°	388.7	10.8
70°-80°	210.5	5.8
80°-90°	54.3	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°	1097.7	30.4
0°-40°	1759.4	48.8
0°-60°	2951.5	81.9
0°-90°	3605.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3605.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1449	1449	1449	1449	1449	
5°	1443	1443	1436	1440	1440	137
15°	1378	1372	1371	1377	1378	388
25°	1247	1240	1244	1249	1251	574
35°	1065	1057	1061	1057	1058	665
45°	846	838	837	834	834	654
55°	620	612	611	605	605	556
65°	406	398	391	386	387	400
75°	209	202	196	192	188	222
85°	50	49	46	41	40	59
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1449.1	1449.1	1449.1	1449.1	1449.1
2.5°	1453.8	1447.9	1445.6	1446.8	1453.8
5°	1443.3	1443.3	1436.3	1439.8	1439.8
7.5°	1431.7	1432.8	1425.8	1431.7	1429.3
10°	1417.7	1414.2	1409.6	1418.9	1421.2
12.5°	1404.9	1396.8	1394.4	1400.3	1401.4
15°	1378.2	1372.3	1371.2	1377.0	1378.2
17.5°	1347.9	1349.1	1344.4	1352.6	1351.4
20°	1318.9	1316.5	1314.2	1323.5	1324.7
22.5°	1286.3	1279.3	1281.6	1289.8	1292.1
25°	1246.7	1239.8	1244.4	1249.1	1251.4
27.5°	1204.9	1201.4	1200.2	1206.0	1208.4
30°	1163.0	1157.2	1157.2	1164.2	1160.7
32.5°	1111.8	1107.2	1109.5	1111.8	1113.0
35°	1065.3	1057.2	1060.7	1057.2	1058.3
37.5°	1010.7	1004.8	1003.7	1002.5	1002.5
40°	959.5	954.8	950.2	950.2	944.4
42.5°	903.7	897.8	895.5	892.0	888.5
45°	845.5	838.5	837.4	833.9	833.9
47.5°	793.2	782.7	781.5	774.6	774.6
50°	733.9	726.9	722.2	717.6	714.1
52.5°	680.4	673.4	666.4	661.8	658.3
55°	619.9	611.7	610.6	604.8	604.8
57.5°	565.2	558.2	553.6	546.6	547.8
60°	508.2	501.3	498.9	493.1	493.1
62.5°	454.7	448.9	445.4	439.6	435.0
65°	405.9	397.7	390.8	386.1	387.3
67.5°	352.4	343.1	339.6	334.9	331.5
70°	301.2	295.4	289.6	283.8	283.8
72.5°	253.5	247.7	244.2	237.3	234.9
75°	209.3	202.4	196.5	191.9	188.4
77.5°	165.1	158.2	154.7	148.9	148.9
80°	123.3	118.6	115.1	112.8	108.2
82.5°	84.9	82.6	79.1	75.6	72.1
85°	50.0	48.8	46.5	40.7	39.5
87.5°	19.8	19.8	17.4	16.3	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)