

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: P296019

Luminaire Tested: **24RLN-LD5-36-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296019  
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-LD5-36-UNV-L92765-W2A1-U-5700K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3463.0 lumens  
Efficiency: N/A  
Efficacy: 133.5 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

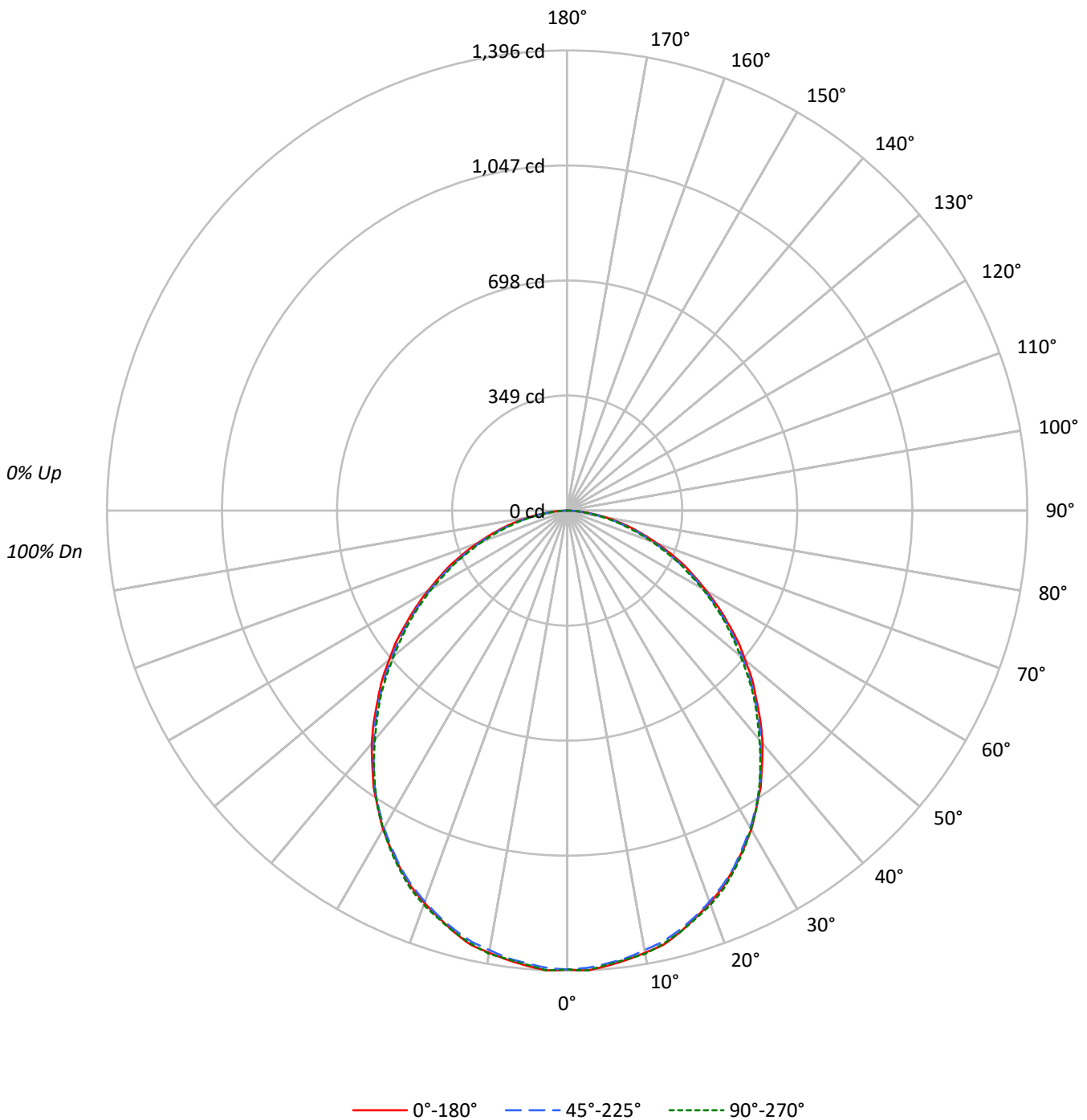
Input Watts (W): 25.947  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1873	1873	1873
5°	1873	1863	1868
10°	1861	1850	1865
15°	1844	1835	1844
20°	1814	1808	1822
25°	1778	1775	1785
30°	1736	1727	1732
35°	1681	1674	1670
40°	1619	1603	1593
45°	1545	1531	1524
50°	1476	1452	1436
55°	1397	1376	1363
60°	1314	1290	1275
65°	1241	1195	1184
70°	1138	1094	1072
75°	1045	981	941
80°	917	857	805
85°	741	690	587



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.3	3.8
10°-20°	372.3	10.8
20°-30°	550.8	15.9
30°-40°	635.6	18.4
40°-50°	620.8	17.9
50°-60°	524.3	15.1
60°-70°	373.4	10.8
70°-80°	202.2	5.8
80°-90°	52.2	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°	1054.5	30.4
0°-40°	1690.1	48.8
0°-60°	2835.2	81.9
0°-90°	3463.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3463.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1392	1392	1392	1392	1392	
5°	1386	1386	1380	1383	1383	132
15°	1324	1318	1317	1323	1324	373
25°	1198	1191	1195	1200	1202	551
35°	1023	1016	1019	1016	1017	639
45°	812	806	804	801	801	628
55°	596	588	586	581	581	534
65°	390	382	375	371	372	384
75°	201	194	189	184	181	213
85°	48	47	45	39	38	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1392.0	1392.0	1392.0	1392.0	1392.0
2.5°	1396.5	1390.9	1388.7	1389.8	1396.5
5°	1386.4	1386.4	1379.7	1383.1	1383.1
7.5°	1375.3	1376.4	1369.7	1375.3	1373.0
10°	1361.9	1358.5	1354.0	1363.0	1365.2
12.5°	1349.6	1341.8	1339.5	1345.1	1346.2
15°	1323.9	1318.3	1317.2	1322.8	1323.9
17.5°	1294.8	1295.9	1291.5	1299.3	1298.2
20°	1266.9	1264.7	1262.4	1271.4	1272.5
22.5°	1235.6	1228.9	1231.2	1239.0	1241.2
25°	1197.6	1190.9	1195.4	1199.9	1202.1
27.5°	1157.4	1154.1	1152.9	1158.5	1160.8
30°	1117.2	1111.6	1111.6	1118.3	1115.0
32.5°	1068.0	1063.6	1065.8	1068.0	1069.2
35°	1023.4	1015.5	1018.9	1015.5	1016.6
37.5°	970.8	965.3	964.1	963.0	963.0
40°	921.7	917.2	912.7	912.7	907.2
42.5°	868.1	862.5	860.2	856.9	853.5
45°	812.2	805.5	804.4	801.0	801.0
47.5°	761.9	751.9	750.8	744.1	744.1
50°	705.0	698.2	693.8	689.3	686.0
52.5°	653.6	646.9	640.2	635.7	632.3
55°	595.5	587.6	586.5	580.9	580.9
57.5°	543.0	536.3	531.8	525.1	526.2
60°	488.2	481.5	479.3	473.7	473.7
62.5°	436.8	431.2	427.9	422.3	417.8
65°	389.9	382.1	375.4	370.9	372.0
67.5°	338.5	329.6	326.2	321.8	318.4
70°	289.4	283.8	278.2	272.6	272.6
72.5°	243.5	238.0	234.6	227.9	225.7
75°	201.1	194.4	188.8	184.3	181.0
77.5°	158.6	151.9	148.6	143.0	143.0
80°	118.4	114.0	110.6	108.4	103.9
82.5°	81.6	79.3	76.0	72.6	69.3
85°	48.0	46.9	44.7	39.1	38.0
87.5°	19.0	19.0	16.8	15.6	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)