

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: P296020

Luminaire Tested: **24RLN-LD5-36-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296020  
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-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: 3486.0 lumens  
Efficiency: N/A  
Efficacy: 132.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

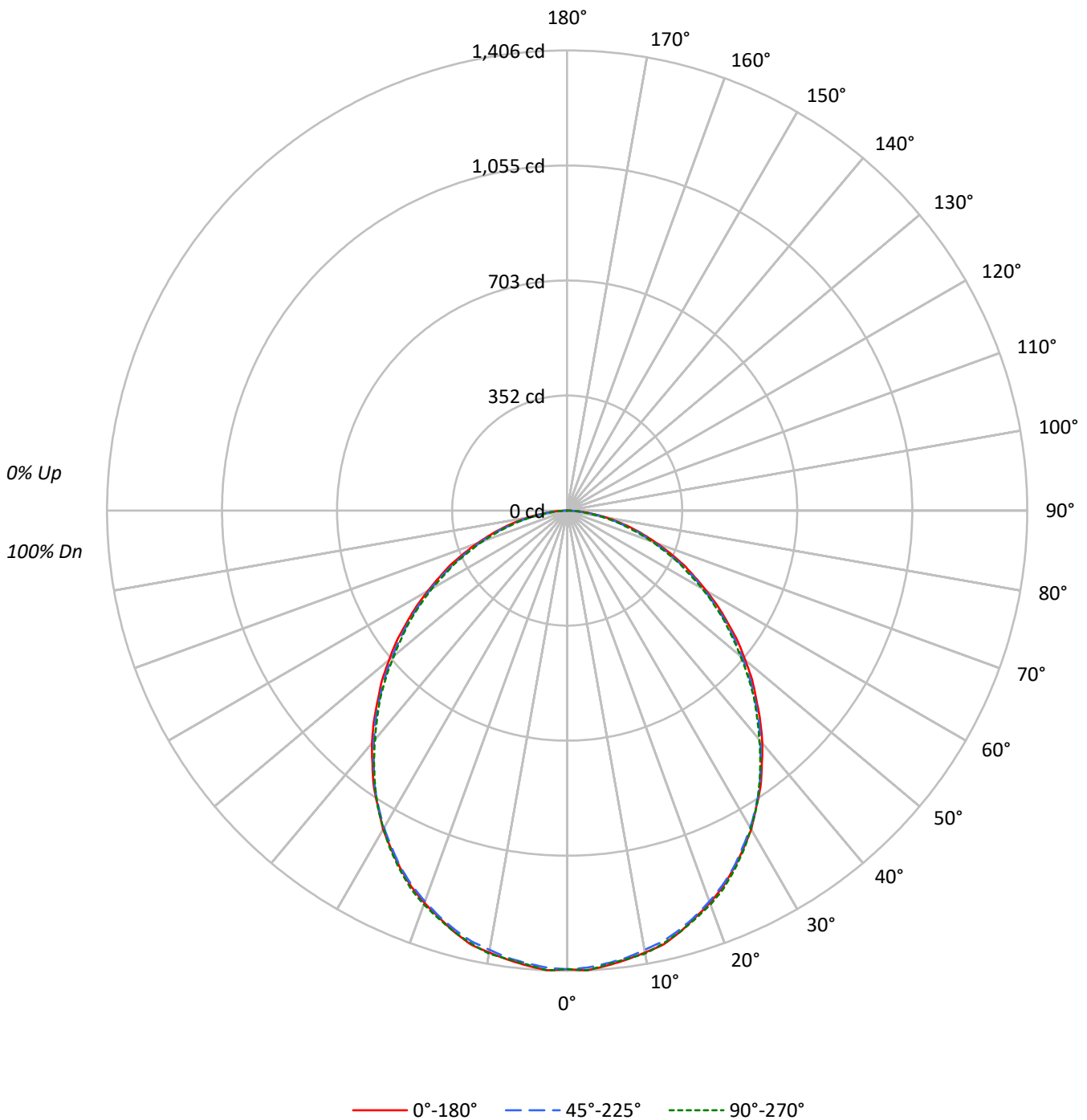
Input Watts (W): 26.412  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1885	1885	1885
5°	1885	1876	1880
10°	1873	1862	1878
15°	1856	1847	1856
20°	1826	1820	1834
25°	1790	1786	1796
30°	1747	1739	1744
35°	1692	1685	1681
40°	1630	1614	1604
45°	1556	1541	1534
50°	1485	1462	1445
55°	1406	1385	1372
60°	1323	1298	1283
65°	1250	1203	1192
70°	1146	1102	1079
75°	1052	988	947
80°	924	862	810
85°	747	695	590



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.2	3.8
10°-20°	374.8	10.8
20°-30°	554.4	15.9
30°-40°	639.9	18.4
40°-50°	625.0	17.9
50°-60°	527.7	15.1
60°-70°	375.9	10.8
70°-80°	203.5	5.8
80°-90°	52.5	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°	1061.5	30.4
0°-40°	1701.3	48.8
0°-60°	2854.0	81.9
0°-90°	3486.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3486.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1401	1401	1401	1401	1401	
5°	1396	1396	1389	1392	1392	132
15°	1333	1327	1326	1332	1333	375
25°	1206	1199	1203	1208	1210	555
35°	1030	1022	1026	1022	1023	643
45°	818	811	810	806	806	632
55°	599	592	590	585	585	537
65°	392	385	378	373	374	387
75°	202	196	190	186	182	214
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°	1401.3	1401.3	1401.3	1401.3	1401.3
2.5°	1405.8	1400.1	1397.9	1399.0	1405.8
5°	1395.6	1395.6	1388.9	1392.3	1392.3
7.5°	1384.4	1385.5	1378.8	1384.4	1382.2
10°	1370.9	1367.5	1363.0	1372.0	1374.3
12.5°	1358.5	1350.7	1348.4	1354.0	1355.2
15°	1332.7	1327.0	1325.9	1331.5	1332.7
17.5°	1303.4	1304.6	1300.1	1307.9	1306.8
20°	1275.3	1273.1	1270.8	1279.8	1280.9
22.5°	1243.8	1237.1	1239.3	1247.2	1249.4
25°	1205.6	1198.8	1203.3	1207.8	1210.1
27.5°	1165.1	1161.7	1160.6	1166.2	1168.5
30°	1124.6	1119.0	1119.0	1125.7	1122.4
32.5°	1075.1	1070.6	1072.9	1075.1	1076.3
35°	1030.1	1022.3	1025.7	1022.3	1023.4
37.5°	977.3	971.7	970.5	969.4	969.4
40°	927.8	923.3	918.8	918.8	913.2
42.5°	873.8	868.2	866.0	862.6	859.2
45°	817.6	810.8	809.7	806.4	806.4
47.5°	767.0	756.9	755.7	749.0	749.0
50°	709.6	702.9	698.4	693.9	690.5
52.5°	657.9	651.2	644.4	639.9	636.5
55°	599.4	591.5	590.4	584.8	584.8
57.5°	546.6	539.8	535.3	528.6	529.7
60°	491.5	484.7	482.5	476.8	476.8
62.5°	439.7	434.1	430.7	425.1	420.6
65°	392.5	384.6	377.9	373.4	374.5
67.5°	340.8	331.8	328.4	323.9	320.5
70°	291.3	285.7	280.0	274.4	274.4
72.5°	245.2	239.5	236.2	229.4	227.2
75°	202.4	195.7	190.1	185.6	182.2
77.5°	159.7	152.9	149.6	144.0	144.0
80°	119.2	114.7	111.3	109.1	104.6
82.5°	82.1	79.8	76.5	73.1	69.7
85°	48.4	47.2	45.0	39.4	38.2
87.5°	19.1	19.1	16.9	15.7	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)