

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: P296018

Luminaire Tested: **24RLN-LD5-36-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296018  
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-5500K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3448.0 lumens  
Efficiency: N/A  
Efficacy: 132.9 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

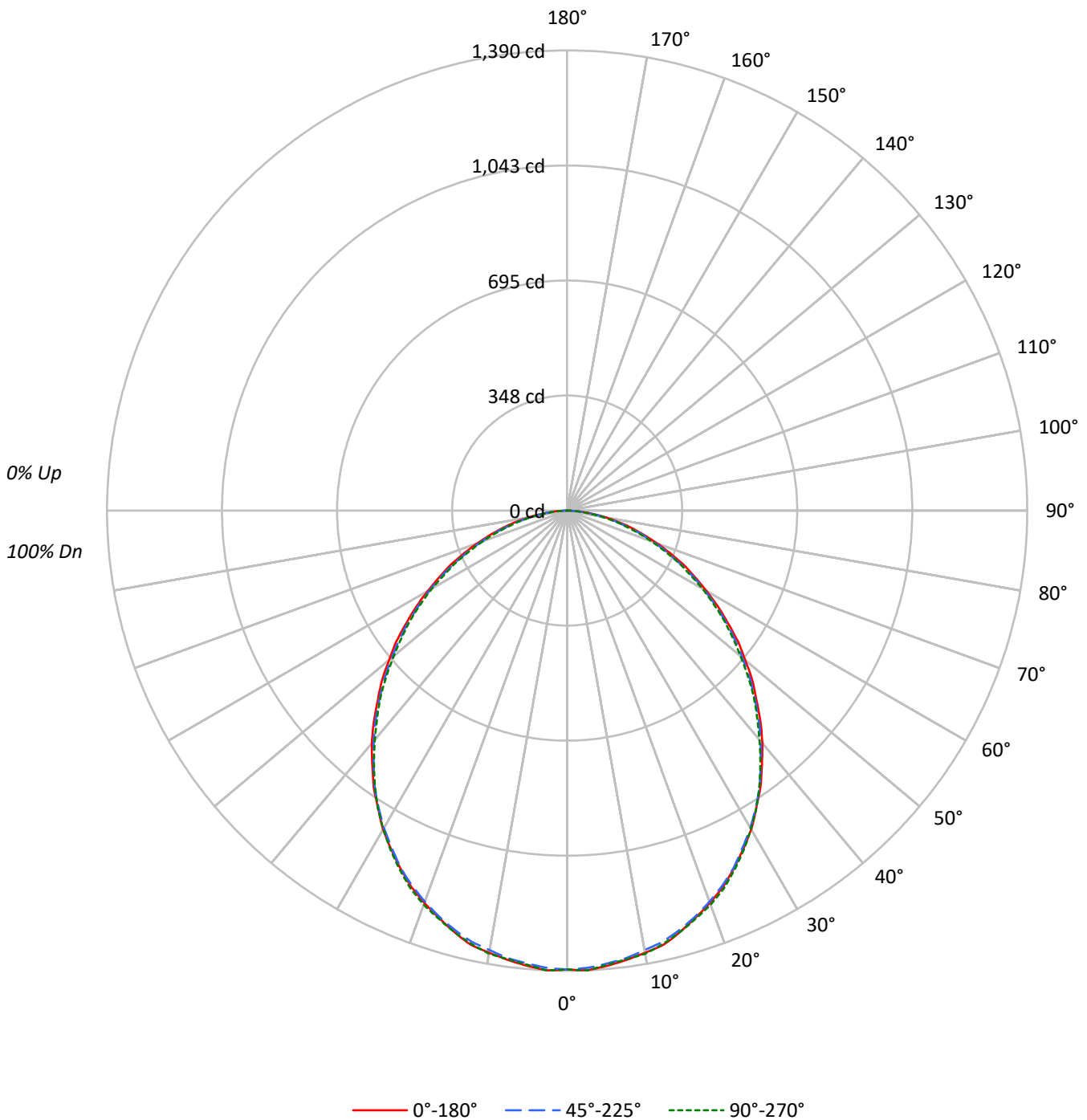
Input Watts (W): 25.947  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1865	1865	1865
5°	1864	1855	1860
10°	1853	1842	1857
15°	1836	1827	1836
20°	1806	1800	1814
25°	1770	1767	1777
30°	1728	1720	1725
35°	1674	1666	1663
40°	1612	1596	1586
45°	1539	1524	1518
50°	1469	1446	1430
55°	1391	1370	1357
60°	1308	1284	1269
65°	1236	1190	1179
70°	1133	1090	1068
75°	1041	977	937
80°	914	853	801
85°	738	687	584



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.8	3.8
10°-20°	370.7	10.8
20°-30°	548.4	15.9
30°-40°	632.9	18.4
40°-50°	618.1	17.9
50°-60°	522.0	15.1
60°-70°	371.8	10.8
70°-80°	201.3	5.8
80°-90°	51.9	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°	1049.9	30.4
0°-40°	1682.8	48.8
0°-60°	2822.9	81.9
0°-90°	3448.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3448.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1386	1386	1386	1386	1386	
5°	1380	1380	1374	1377	1377	131
15°	1318	1313	1312	1317	1318	371
25°	1192	1186	1190	1195	1197	549
35°	1019	1011	1014	1011	1012	636
45°	809	802	801	798	798	625
55°	593	585	584	578	578	532
65°	388	380	374	369	370	383
75°	200	194	188	184	180	212
85°	48	47	44	39	38	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1386.0	1386.0	1386.0	1386.0	1386.0
2.5°	1390.4	1384.9	1382.7	1383.8	1390.4
5°	1380.4	1380.4	1373.8	1377.1	1377.1
7.5°	1369.3	1370.4	1363.8	1369.3	1367.1
10°	1356.0	1352.6	1348.2	1357.1	1359.3
12.5°	1343.7	1335.9	1333.7	1339.3	1340.4
15°	1318.1	1312.6	1311.5	1317.0	1318.1
17.5°	1289.2	1290.3	1285.9	1293.7	1292.6
20°	1261.4	1259.2	1257.0	1265.9	1267.0
22.5°	1230.3	1223.6	1225.8	1233.6	1235.8
25°	1192.4	1185.8	1190.2	1194.7	1196.9
27.5°	1152.4	1149.1	1148.0	1153.5	1155.7
30°	1112.4	1106.8	1106.8	1113.5	1110.1
32.5°	1063.4	1059.0	1061.2	1063.4	1064.5
35°	1018.9	1011.1	1014.5	1011.1	1012.2
37.5°	966.6	961.1	960.0	958.9	958.9
40°	917.7	913.2	908.8	908.8	903.2
42.5°	864.3	858.7	856.5	853.2	849.8
45°	808.7	802.0	800.9	797.6	797.6
47.5°	758.6	748.6	747.5	740.8	740.8
50°	701.9	695.2	690.8	686.3	683.0
52.5°	650.7	644.1	637.4	632.9	629.6
55°	592.9	585.1	584.0	578.4	578.4
57.5°	540.6	533.9	529.5	522.8	523.9
60°	486.1	479.4	477.2	471.6	471.6
62.5°	434.9	429.4	426.0	420.5	416.0
65°	388.2	380.4	373.8	369.3	370.4
67.5°	337.0	328.1	324.8	320.4	317.0
70°	288.1	282.5	277.0	271.4	271.4
72.5°	242.5	236.9	233.6	226.9	224.7
75°	200.2	193.6	188.0	183.5	180.2
77.5°	158.0	151.3	147.9	142.4	142.4
80°	117.9	113.5	110.1	107.9	103.4
82.5°	81.2	79.0	75.6	72.3	69.0
85°	47.8	46.7	44.5	38.9	37.8
87.5°	18.9	18.9	16.7	15.6	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)