

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: P296336

Luminaire Tested: **24RLN-LD5-55-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296336  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059-R2)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24RLN-LD5-55-RDP-UNV-L92765-W2A1-U-6500K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4367.0 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

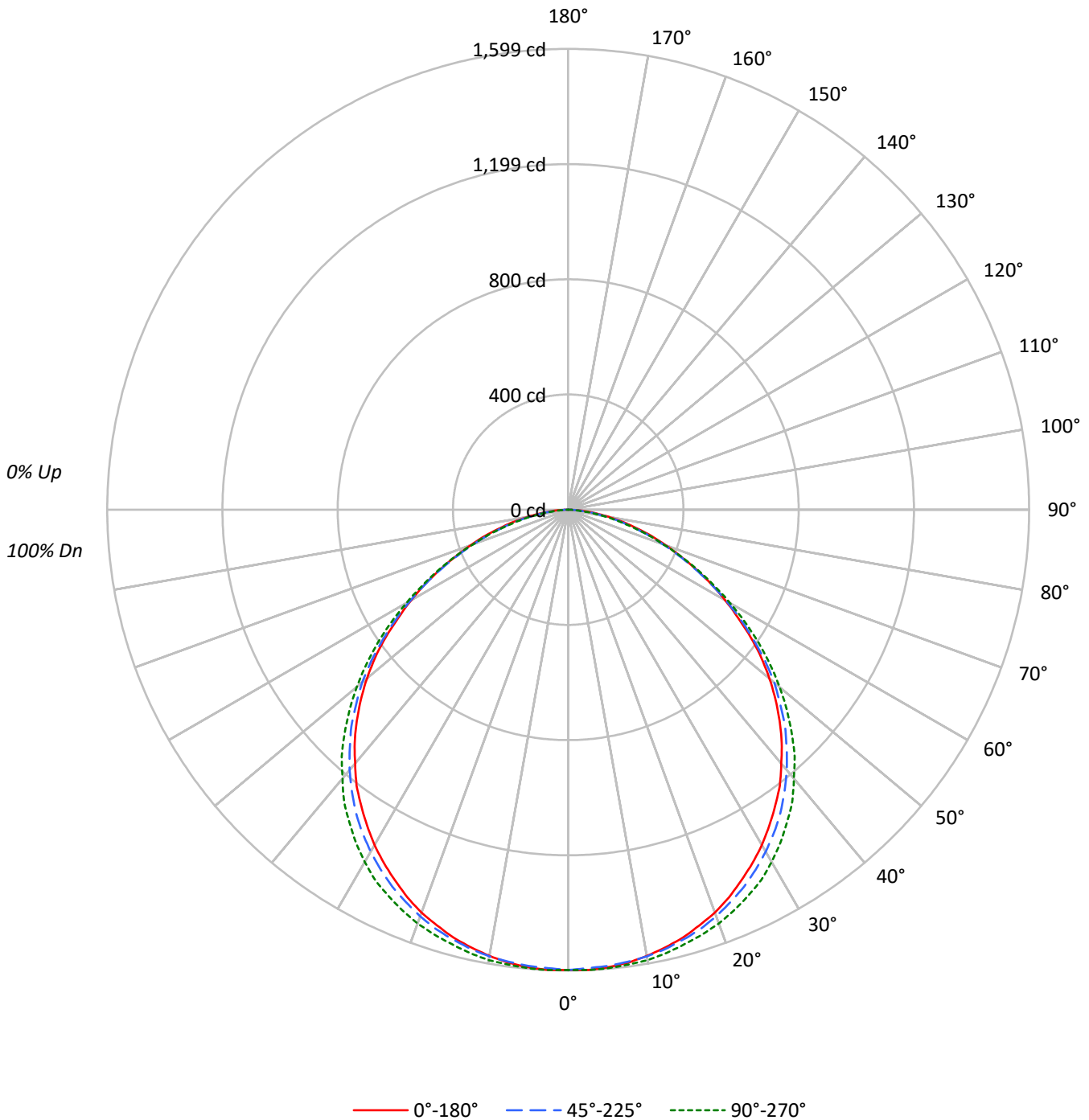
Input Watts (W): 40.083  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2149	2149	2149
5°	2152	2146	2157
10°	2148	2150	2168
15°	2142	2151	2174
20°	2130	2149	2187
25°	2108	2142	2194
30°	2087	2129	2193
35°	2057	2109	2174
40°	2019	2072	2139
45°	1973	2024	2087
50°	1907	1952	2004
55°	1815	1838	1893
60°	1694	1703	1748
65°	1556	1545	1582
70°	1414	1375	1382
75°	1258	1188	1180
80°	1091	976	950
85°	895	690	537



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.5	3.5
10°-20°	436.6	10.0
20°-30°	666.5	15.3
30°-40°	803.5	18.4
40°-50°	819.4	18.8
50°-60°	701.3	16.1
60°-70°	483.0	11.1
70°-80°	247.6	5.7
80°-90°	57.6	1.3
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°	1254.6	28.7
0°-40°	2058.1	47.1
0°-60°	3578.7	81.9
0°-90°	4367.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4367.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1597	1597	1597	1597	1597	
5°	1594	1590	1589	1594	1597	151
15°	1537	1536	1544	1556	1561	434
25°	1420	1425	1443	1468	1478	655
35°	1252	1257	1284	1312	1324	784
45°	1037	1039	1064	1090	1097	799
55°	774	769	784	800	807	690
65°	489	477	485	489	497	486
75°	242	232	229	229	227	261
85°	58	51	45	40	35	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1597.0	1597.0	1597.0	1597.0	1597.0
2.5°	1598.7	1595.4	1592.1	1595.4	1598.7
5°	1593.7	1590.4	1588.7	1593.7	1597.0
7.5°	1585.4	1582.1	1582.1	1588.7	1592.1
10°	1572.2	1570.5	1573.8	1580.5	1587.1
12.5°	1555.6	1555.6	1560.6	1568.9	1575.5
15°	1537.4	1535.7	1544.0	1555.6	1560.6
17.5°	1512.5	1514.2	1525.8	1539.0	1545.7
20°	1487.7	1489.3	1500.9	1519.2	1527.4
22.5°	1456.2	1459.5	1472.8	1496.0	1504.3
25°	1419.8	1424.7	1443.0	1467.8	1477.7
27.5°	1383.3	1388.3	1408.2	1436.3	1449.6
30°	1343.6	1350.2	1370.1	1399.9	1411.5
32.5°	1298.8	1303.8	1328.6	1358.5	1370.1
35°	1252.4	1257.4	1283.9	1312.1	1323.7
37.5°	1206.1	1206.1	1232.6	1265.7	1277.3
40°	1149.7	1151.4	1179.5	1211.0	1217.7
42.5°	1096.7	1096.7	1121.6	1151.4	1163.0
45°	1037.1	1038.7	1063.6	1090.1	1096.7
47.5°	975.8	975.8	997.3	1022.2	1028.8
50°	911.2	907.9	932.7	952.6	957.6
52.5°	844.9	839.9	859.8	876.4	883.0
55°	773.7	768.7	783.6	800.2	806.8
57.5°	699.1	692.5	709.1	724.0	727.3
60°	629.5	619.6	632.8	641.1	649.4
62.5°	560.0	548.4	558.3	563.3	569.9
65°	488.7	477.1	485.4	488.7	497.0
67.5°	420.8	412.5	414.2	419.1	422.5
70°	359.5	349.6	349.6	349.6	351.2
72.5°	303.2	288.3	286.6	288.3	288.3
75°	241.9	231.9	228.6	228.6	227.0
77.5°	193.8	180.6	178.9	175.6	172.3
80°	140.8	129.2	125.9	124.3	122.6
82.5°	97.7	87.8	84.5	81.2	76.2
85°	58.0	51.4	44.7	39.8	34.8
87.5°	21.5	19.9	16.6	14.9	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)