

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: P296260

Luminaire Tested: **24RLN-LD5-55-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296260  
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-L93050-W2A1-U-4000K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4224.0 lumens  
Efficiency: N/A  
Efficacy: 107.4 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

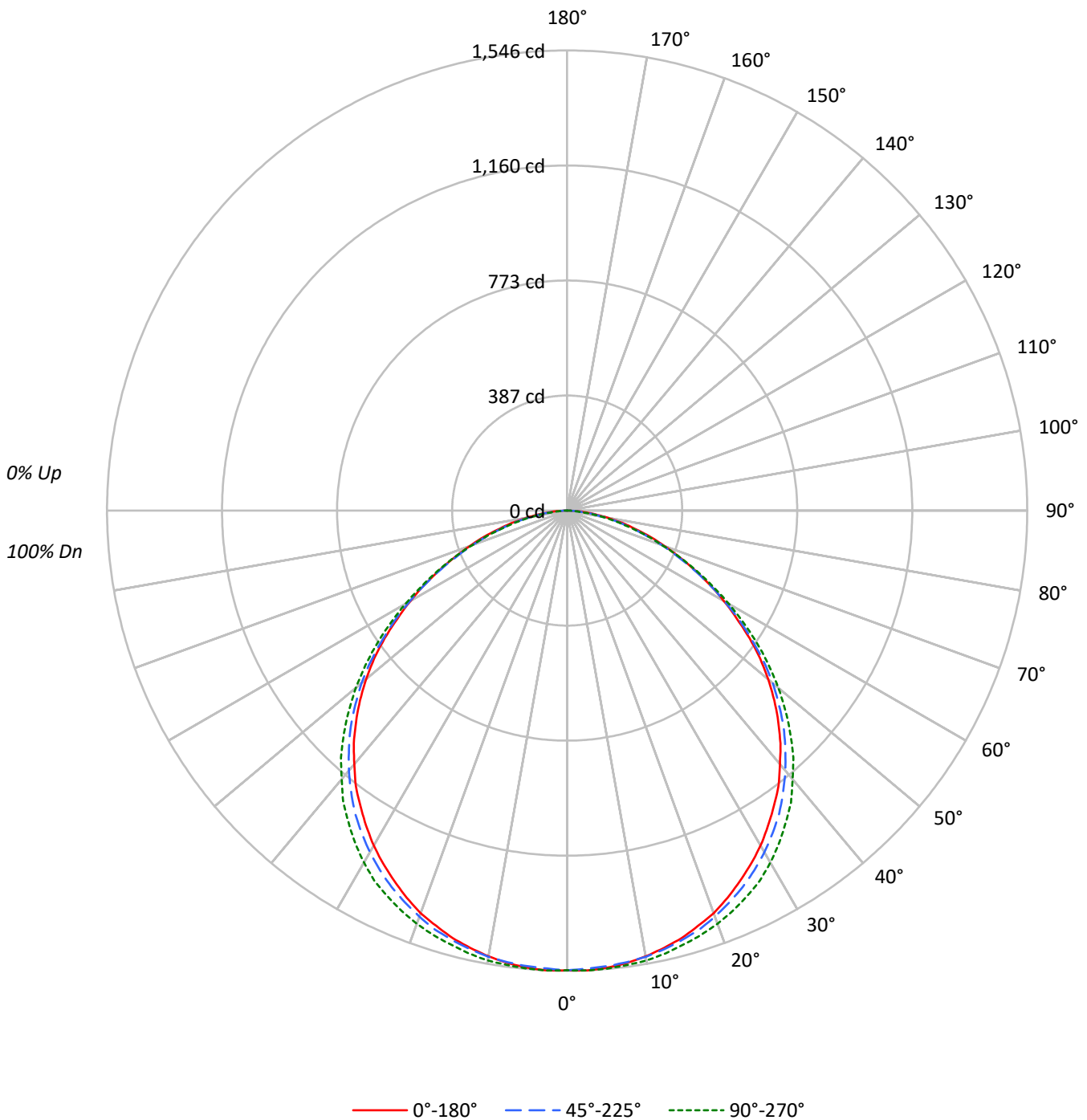
Input Watts (W): 39.339  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2078	2078	2078
5°	2082	2076	2086
10°	2078	2080	2097
15°	2071	2080	2103
20°	2060	2079	2115
25°	2039	2072	2122
30°	2019	2059	2121
35°	1990	2040	2103
40°	1953	2004	2069
45°	1909	1958	2019
50°	1845	1888	1939
55°	1755	1778	1831
60°	1639	1647	1690
65°	1505	1495	1530
70°	1368	1330	1336
75°	1216	1149	1141
80°	1055	944	919
85°	866	668	520



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.5	3.5
10°-20°	422.3	10.0
20°-30°	644.7	15.3
30°-40°	777.2	18.4
40°-50°	792.6	18.8
50°-60°	678.3	16.1
60°-70°	467.2	11.1
70°-80°	239.5	5.7
80°-90°	55.7	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°	1213.5	28.7
0°-40°	1990.7	47.1
0°-60°	3461.5	81.9
0°-90°	4224.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4224.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1545	1545	1545	1545	1545	
5°	1542	1538	1537	1542	1545	146
15°	1487	1485	1494	1505	1510	419
25°	1373	1378	1396	1420	1429	633
35°	1211	1216	1242	1269	1280	758
45°	1003	1005	1029	1054	1061	773
55°	748	744	758	774	780	668
65°	473	462	470	473	481	470
75°	234	224	221	221	220	252
85°	56	50	43	38	34	65
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1544.7	1544.7	1544.7	1544.7	1544.7
2.5°	1546.3	1543.1	1539.9	1543.1	1546.3
5°	1541.5	1538.3	1536.7	1541.5	1544.7
7.5°	1533.5	1530.3	1530.3	1536.7	1539.9
10°	1520.7	1519.1	1522.3	1528.7	1535.1
12.5°	1504.7	1504.7	1509.5	1517.5	1523.9
15°	1487.0	1485.4	1493.5	1504.7	1509.5
17.5°	1463.0	1464.6	1475.8	1488.6	1495.1
20°	1439.0	1440.6	1451.8	1469.4	1477.4
22.5°	1408.5	1411.7	1424.6	1447.0	1455.0
25°	1373.3	1378.1	1395.7	1419.7	1429.4
27.5°	1338.0	1342.8	1362.1	1389.3	1402.1
30°	1299.6	1306.0	1325.2	1354.0	1365.3
32.5°	1256.3	1261.1	1285.1	1314.0	1325.2
35°	1211.4	1216.2	1241.9	1269.1	1280.3
37.5°	1166.6	1166.6	1192.2	1224.2	1235.5
40°	1112.1	1113.7	1140.9	1171.4	1177.8
42.5°	1060.8	1060.8	1084.8	1113.7	1124.9
45°	1003.1	1004.7	1028.8	1054.4	1060.8
47.5°	943.8	943.8	964.7	988.7	995.1
50°	881.3	878.1	902.2	921.4	926.2
52.5°	817.2	812.4	831.7	847.7	854.1
55°	748.3	743.5	757.9	774.0	780.4
57.5°	676.2	669.8	685.8	700.3	703.5
60°	608.9	599.3	612.1	620.1	628.1
62.5°	541.6	530.4	540.0	544.8	551.2
65°	472.7	461.5	469.5	472.7	480.7
67.5°	407.0	399.0	400.6	405.4	408.6
70°	347.7	338.1	338.1	338.1	339.7
72.5°	293.2	278.8	277.2	278.8	278.8
75°	234.0	224.3	221.1	221.1	219.5
77.5°	187.5	174.7	173.1	169.9	166.7
80°	136.2	125.0	121.8	120.2	118.6
82.5°	94.5	84.9	81.7	78.5	73.7
85°	56.1	49.7	43.3	38.5	33.7
87.5°	20.8	19.2	16.0	14.4	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)