

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: P296204

Luminaire Tested: **24RLN-LD5-60-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296204  
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-LD5-60-RDP-UNV-L82765-W2A1-U-5700K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5208.0 lumens  
Efficiency: N/A  
Efficacy: 117.2 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

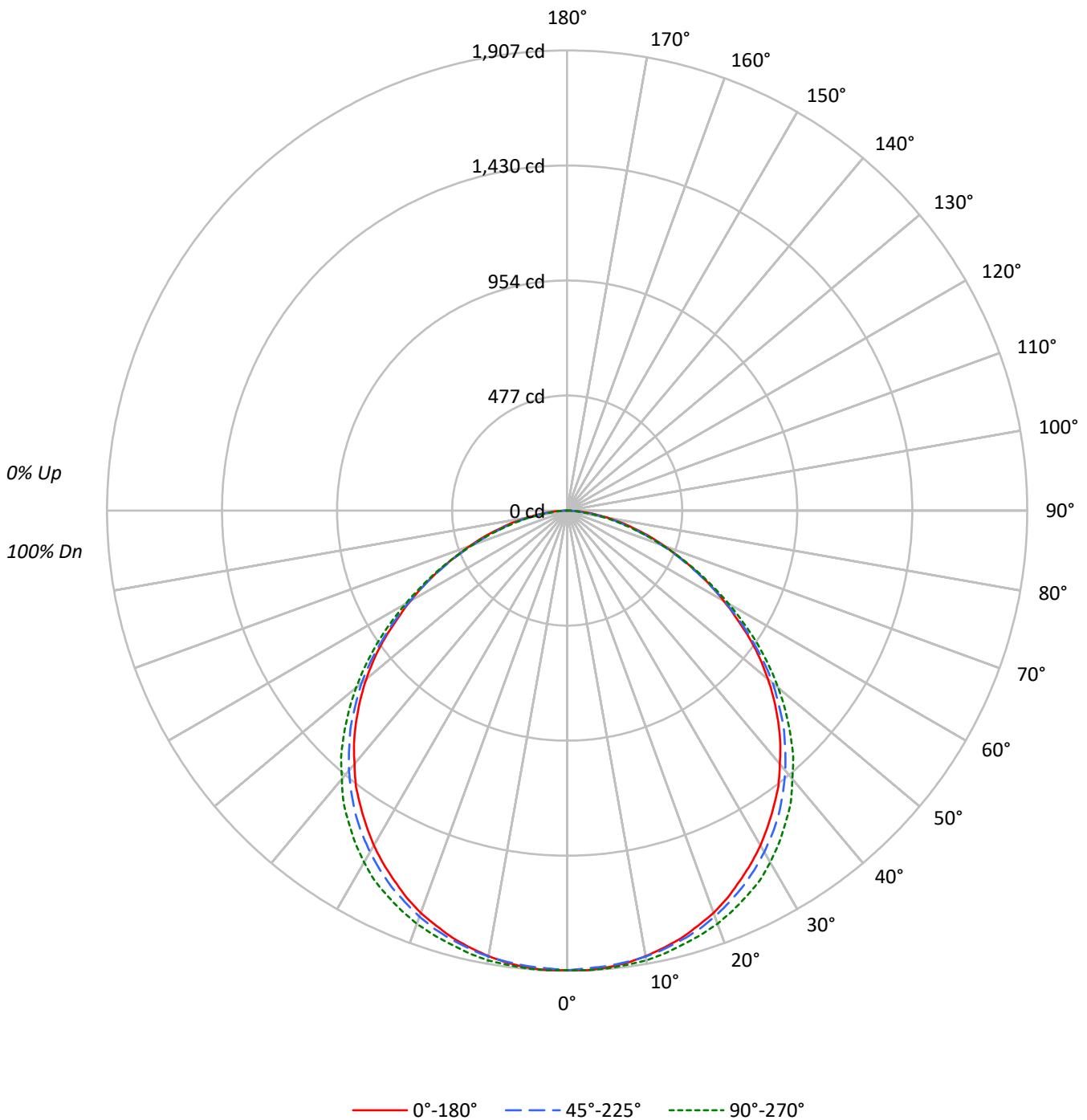
Input Watts (W): 44.454  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2563	2563	2563
5°	2567	2559	2572
10°	2562	2564	2586
15°	2554	2565	2592
20°	2540	2563	2608
25°	2514	2555	2616
30°	2489	2538	2615
35°	2453	2515	2593
40°	2408	2471	2550
45°	2353	2414	2489
50°	2274	2328	2390
55°	2164	2192	2257
60°	2020	2031	2084
65°	1855	1843	1887
70°	1686	1640	1648
75°	1500	1417	1407
80°	1301	1164	1133
85°	1067	823	641



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.6	3.5
10°-20°	520.7	10.0
20°-30°	794.8	15.3
30°-40°	958.2	18.4
40°-50°	977.2	18.8
50°-60°	836.3	16.1
60°-70°	576.1	11.1
70°-80°	295.3	5.7
80°-90°	68.7	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°	1496.2	28.7
0°-40°	2454.4	47.1
0°-60°	4267.9	81.9
0°-90°	5208.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5208.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1905	1905	1905	1905	1905	
5°	1901	1897	1895	1901	1905	181
15°	1834	1832	1841	1855	1861	517
25°	1693	1699	1721	1750	1762	781
35°	1494	1500	1531	1565	1579	934
45°	1237	1239	1268	1300	1308	953
55°	923	917	934	954	962	823
65°	583	569	579	583	593	579
75°	288	277	273	273	271	311
85°	69	61	53	47	42	80
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1904.6	1904.6	1904.6	1904.6	1904.6
2.5°	1906.6	1902.6	1898.7	1902.6	1906.6
5°	1900.6	1896.7	1894.7	1900.6	1904.6
7.5°	1890.8	1886.8	1886.8	1894.7	1898.7
10°	1874.9	1873.0	1876.9	1884.8	1892.7
12.5°	1855.2	1855.2	1861.1	1871.0	1878.9
15°	1833.5	1831.5	1841.4	1855.2	1861.1
17.5°	1803.8	1805.8	1819.6	1835.4	1843.3
20°	1774.2	1776.2	1790.0	1811.7	1821.6
22.5°	1736.6	1740.6	1756.4	1784.1	1793.9
25°	1693.2	1699.1	1720.8	1750.5	1762.3
27.5°	1649.7	1655.6	1679.4	1712.9	1728.7
30°	1602.3	1610.2	1633.9	1669.5	1683.3
32.5°	1549.0	1554.9	1584.5	1620.1	1633.9
35°	1493.6	1499.6	1531.2	1564.8	1578.6
37.5°	1438.3	1438.3	1469.9	1509.4	1523.3
40°	1371.1	1373.1	1406.7	1444.2	1452.1
42.5°	1307.9	1307.9	1337.6	1373.1	1386.9
45°	1236.8	1238.8	1268.4	1300.0	1307.9
47.5°	1163.7	1163.7	1189.4	1219.0	1226.9
50°	1086.6	1082.7	1112.3	1136.0	1142.0
52.5°	1007.6	1001.7	1025.4	1045.2	1053.1
55°	922.7	916.7	934.5	954.3	962.2
57.5°	833.8	825.8	845.6	863.4	867.3
60°	750.8	738.9	754.7	764.6	774.5
62.5°	667.8	654.0	665.8	671.7	679.6
65°	582.8	569.0	578.9	582.8	592.7
67.5°	501.8	492.0	493.9	499.9	503.8
70°	428.7	416.9	416.9	416.9	418.9
72.5°	361.6	343.8	341.8	343.8	343.8
75°	288.5	276.6	272.6	272.6	270.7
77.5°	231.2	215.4	213.4	209.4	205.5
80°	167.9	154.1	150.2	148.2	146.2
82.5°	116.6	104.7	100.8	96.8	90.9
85°	69.1	61.2	53.3	47.4	41.5
87.5°	25.7	23.7	19.8	17.8	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)