

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: P296062

Luminaire Tested: **24RLN-LD5-60-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296062  
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-LD5-60-UNV-L92765-W2A1-U-5000K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5569.0 lumens  
Efficiency: N/A  
Efficacy: 125.8 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

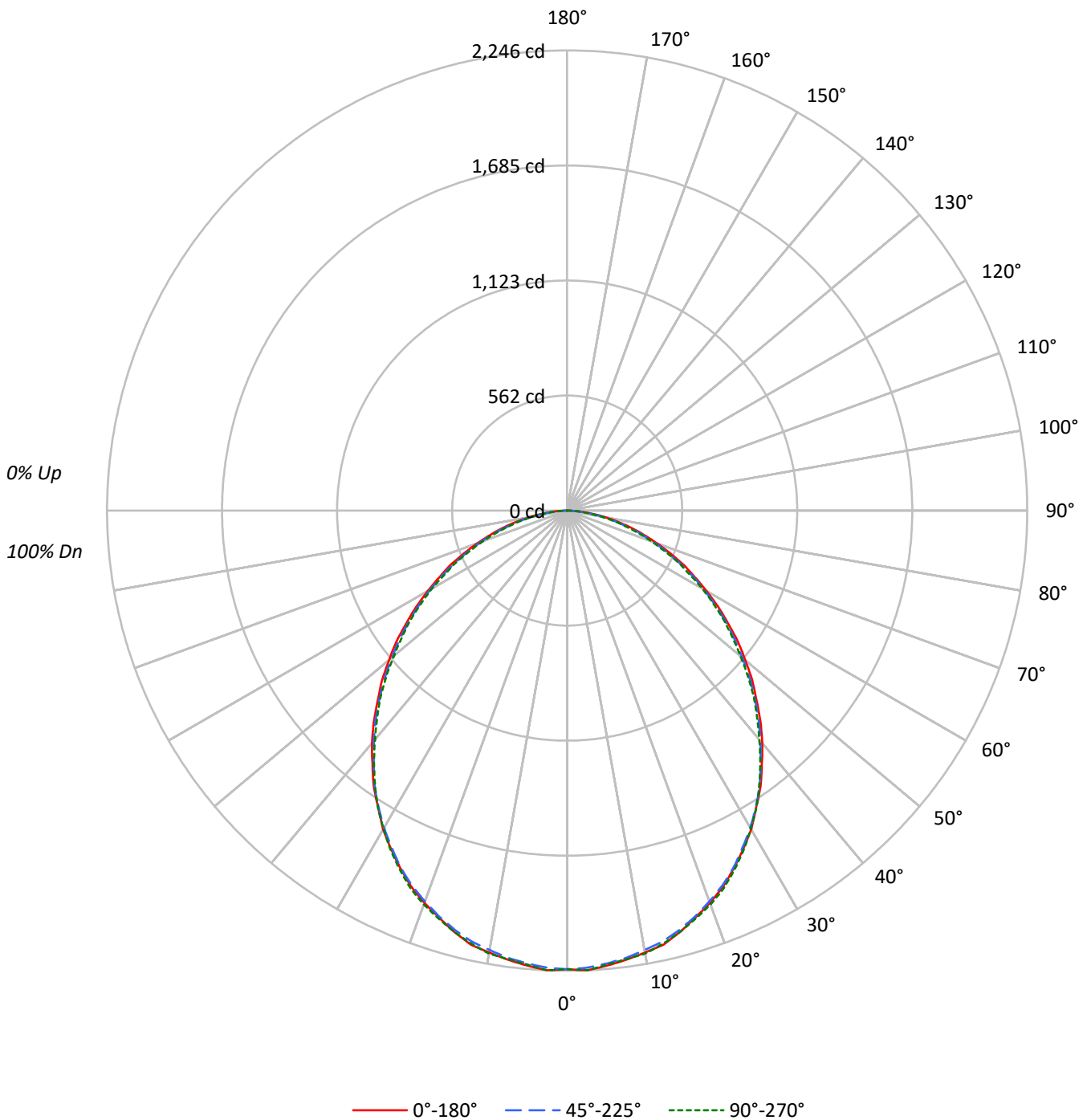
Input Watts (W): 44.268  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3012	3012	3012
5°	3011	2997	3004
10°	2992	2975	3000
15°	2966	2951	2966
20°	2917	2907	2930
25°	2859	2854	2870
30°	2791	2777	2786
35°	2703	2691	2685
40°	2603	2578	2562
45°	2485	2461	2451
50°	2373	2335	2309
55°	2246	2213	2191
60°	2113	2074	2050
65°	1996	1922	1905
70°	1830	1760	1725
75°	1681	1578	1513
80°	1475	1378	1295
85°	1193	1110	943



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.2	3.8
10°-20°	598.8	10.8
20°-30°	885.7	15.9
30°-40°	1022.2	18.4
40°-50°	998.4	17.9
50°-60°	843.1	15.1
60°-70°	600.5	10.8
70°-80°	325.1	5.8
80°-90°	83.9	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°	1695.7	30.4
0°-40°	2718.0	48.8
0°-60°	4559.5	81.9
0°-90°	5569.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5569.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2239	2239	2239	2239	2239	
5°	2230	2230	2219	2224	2224	212
15°	2129	2120	2118	2127	2129	600
25°	1926	1915	1922	1930	1933	887
35°	1646	1633	1638	1633	1635	1027
45°	1306	1295	1294	1288	1288	1010
55°	958	945	943	934	934	859
65°	627	614	604	596	598	618
75°	323	313	304	296	291	342
85°	77	76	72	63	61	91
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2238.6	2238.6	2238.6	2238.6	2238.6
2.5°	2245.8	2236.8	2233.2	2235.0	2245.8
5°	2229.6	2229.6	2218.8	2224.2	2224.2
7.5°	2211.6	2213.4	2202.6	2211.6	2208.0
10°	2190.1	2184.7	2177.5	2191.9	2195.5
12.5°	2170.3	2157.7	2154.1	2163.1	2164.9
15°	2129.0	2120.0	2118.2	2127.2	2129.0
17.5°	2082.3	2084.1	2076.9	2089.5	2087.7
20°	2037.4	2033.8	2030.2	2044.5	2046.3
22.5°	1987.1	1976.3	1979.9	1992.4	1996.0
25°	1926.0	1915.2	1922.4	1929.6	1933.2
27.5°	1861.3	1855.9	1854.1	1863.1	1866.7
30°	1796.6	1787.6	1787.6	1798.4	1793.0
32.5°	1717.6	1710.4	1714.0	1717.6	1719.4
35°	1645.7	1633.1	1638.5	1633.1	1634.9
37.5°	1561.3	1552.3	1550.5	1548.7	1548.7
40°	1482.2	1475.0	1467.8	1467.8	1458.8
42.5°	1396.0	1387.0	1383.4	1378.0	1372.6
45°	1306.1	1295.4	1293.6	1288.2	1288.2
47.5°	1225.3	1209.1	1207.3	1196.5	1196.5
50°	1133.7	1122.9	1115.7	1108.5	1103.1
52.5°	1051.0	1040.2	1029.5	1022.3	1016.9
55°	957.6	945.0	943.2	934.2	934.2
57.5°	873.2	862.4	855.2	844.4	846.2
60°	785.1	774.3	770.7	761.8	761.8
62.5°	702.5	693.5	688.1	679.1	671.9
65°	627.0	614.4	603.7	596.5	598.3
67.5°	544.4	530.0	524.6	517.4	512.0
70°	465.3	456.3	447.4	438.4	438.4
72.5°	391.7	382.7	377.3	366.5	362.9
75°	323.4	312.6	303.6	296.4	291.1
77.5°	255.1	244.3	238.9	230.0	230.0
80°	190.4	183.3	177.9	174.3	167.1
82.5°	131.2	127.6	122.2	116.8	111.4
85°	77.3	75.5	71.9	62.9	61.1
87.5°	30.5	30.5	26.9	25.2	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)