

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: P295993

Luminaire Tested: **24RLN-LD5-74-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295993  
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-LD5-74-UNV-L93050-W2A1-U-3000K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5784.0 lumens  
Efficiency: N/A  
Efficacy: 102.6 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

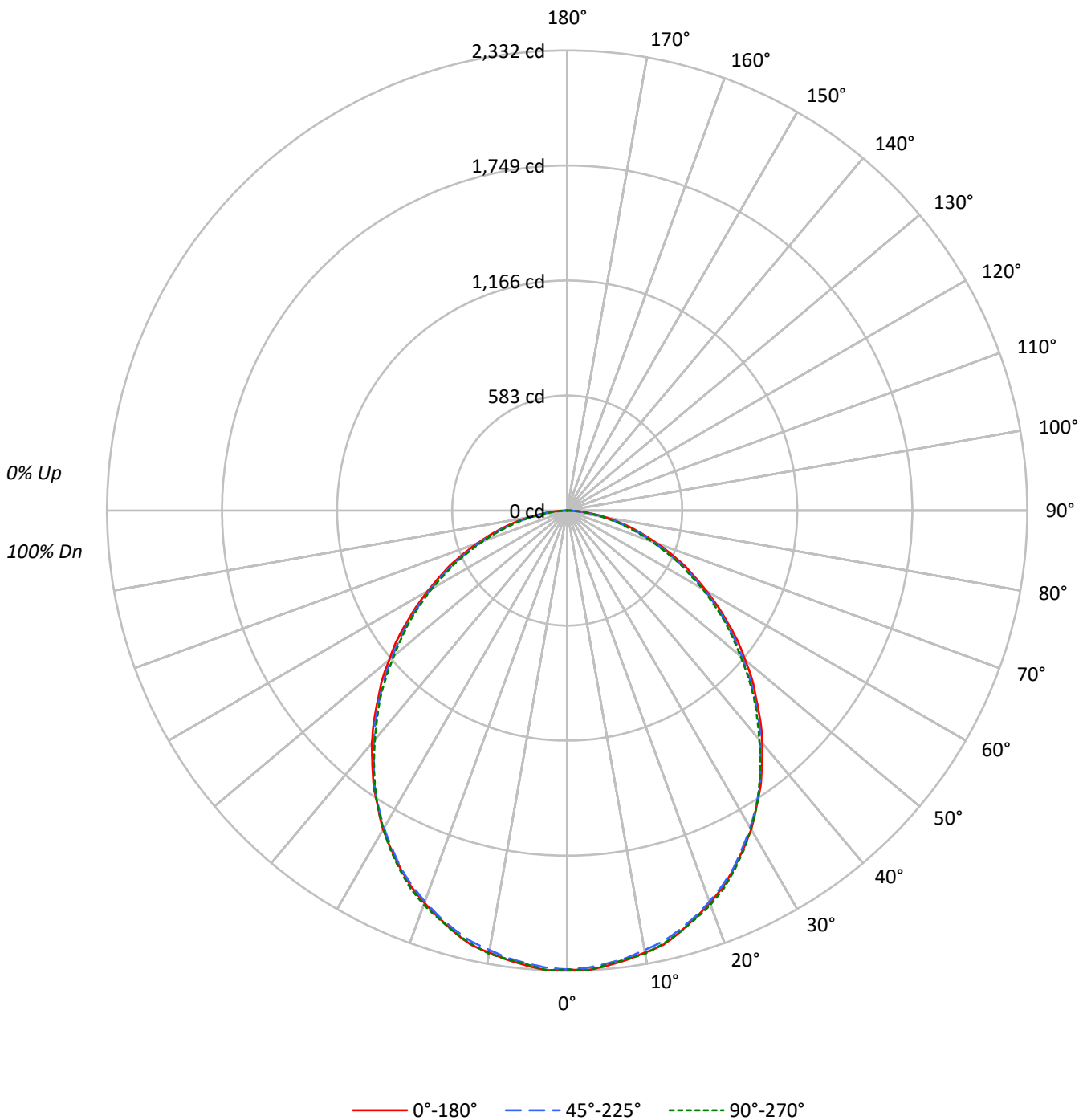
Input Watts (W): 56.358  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3128	3128	3128
5°	3128	3113	3120
10°	3108	3090	3115
15°	3080	3064	3080
20°	3030	3019	3043
25°	2970	2964	2981
30°	2899	2884	2893
35°	2807	2795	2789
40°	2704	2678	2661
45°	2581	2556	2546
50°	2465	2426	2398
55°	2333	2298	2276
60°	2194	2154	2129
65°	2073	1996	1978
70°	1901	1828	1791
75°	1746	1639	1572
80°	1533	1431	1344
85°	1238	1152	979



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.4	3.8
10°-20°	621.9	10.8
20°-30°	919.9	15.9
30°-40°	1061.7	18.4
40°-50°	1036.9	17.9
50°-60°	875.6	15.1
60°-70°	623.7	10.8
70°-80°	337.7	5.8
80°-90°	87.1	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°	1761.2	30.4
0°-40°	2822.9	48.8
0°-60°	4735.5	81.9
0°-90°	5784.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5784.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2325	2325	2325	2325	2325	
5°	2316	2316	2304	2310	2310	220
15°	2211	2202	2200	2209	2211	623
25°	2000	1989	1997	2004	2008	921
35°	1709	1696	1702	1696	1698	1067
45°	1357	1345	1344	1338	1338	1049
55°	995	982	980	970	970	892
65°	651	638	627	620	621	642
75°	336	325	315	308	302	355
85°	80	78	75	65	63	94
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2325.0	2325.0	2325.0	2325.0	2325.0
2.5°	2332.5	2323.1	2319.4	2321.3	2332.5
5°	2315.7	2315.7	2304.5	2310.1	2310.1
7.5°	2297.0	2298.9	2287.7	2297.0	2293.3
10°	2274.6	2269.0	2261.6	2276.5	2280.2
12.5°	2254.1	2241.0	2237.3	2246.6	2248.5
15°	2211.2	2201.8	2200.0	2209.3	2211.2
17.5°	2162.7	2164.5	2157.1	2170.1	2168.3
20°	2116.0	2112.3	2108.6	2123.5	2125.3
22.5°	2063.8	2052.6	2056.3	2069.4	2073.1
25°	2000.3	1989.1	1996.6	2004.1	2007.8
27.5°	1933.1	1927.6	1925.7	1935.0	1938.7
30°	1866.0	1856.6	1856.6	1867.8	1862.2
32.5°	1783.9	1776.4	1780.1	1783.9	1785.7
35°	1709.2	1696.2	1701.8	1696.2	1698.0
37.5°	1621.5	1612.2	1610.3	1608.5	1608.5
40°	1539.4	1532.0	1524.5	1524.5	1515.2
42.5°	1449.9	1440.5	1436.8	1431.2	1425.6
45°	1356.6	1345.4	1343.5	1337.9	1337.9
47.5°	1272.6	1255.8	1253.9	1242.7	1242.7
50°	1177.4	1166.2	1158.8	1151.3	1145.7
52.5°	1091.6	1080.4	1069.2	1061.7	1056.1
55°	994.6	981.5	979.6	970.3	970.3
57.5°	906.9	895.7	888.2	877.0	878.9
60°	815.4	804.2	800.5	791.2	791.2
62.5°	729.6	720.3	714.7	705.3	697.9
65°	651.2	638.2	627.0	619.5	621.4
67.5°	565.4	550.5	544.9	537.4	531.8
70°	483.3	474.0	464.6	455.3	455.3
72.5°	406.8	397.5	391.9	380.7	376.9
75°	335.9	324.7	315.3	307.9	302.3
77.5°	265.0	253.8	248.2	238.8	238.8
80°	197.8	190.3	184.7	181.0	173.5
82.5°	136.2	132.5	126.9	121.3	115.7
85°	80.2	78.4	74.6	65.3	63.4
87.5°	31.7	31.7	28.0	26.1	24.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)