

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: P296076

Luminaire Tested: **24RLN-LD5-74-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296076  
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-L92765-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: 6058.0 lumens  
Efficiency: N/A  
Efficacy: 111.2 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

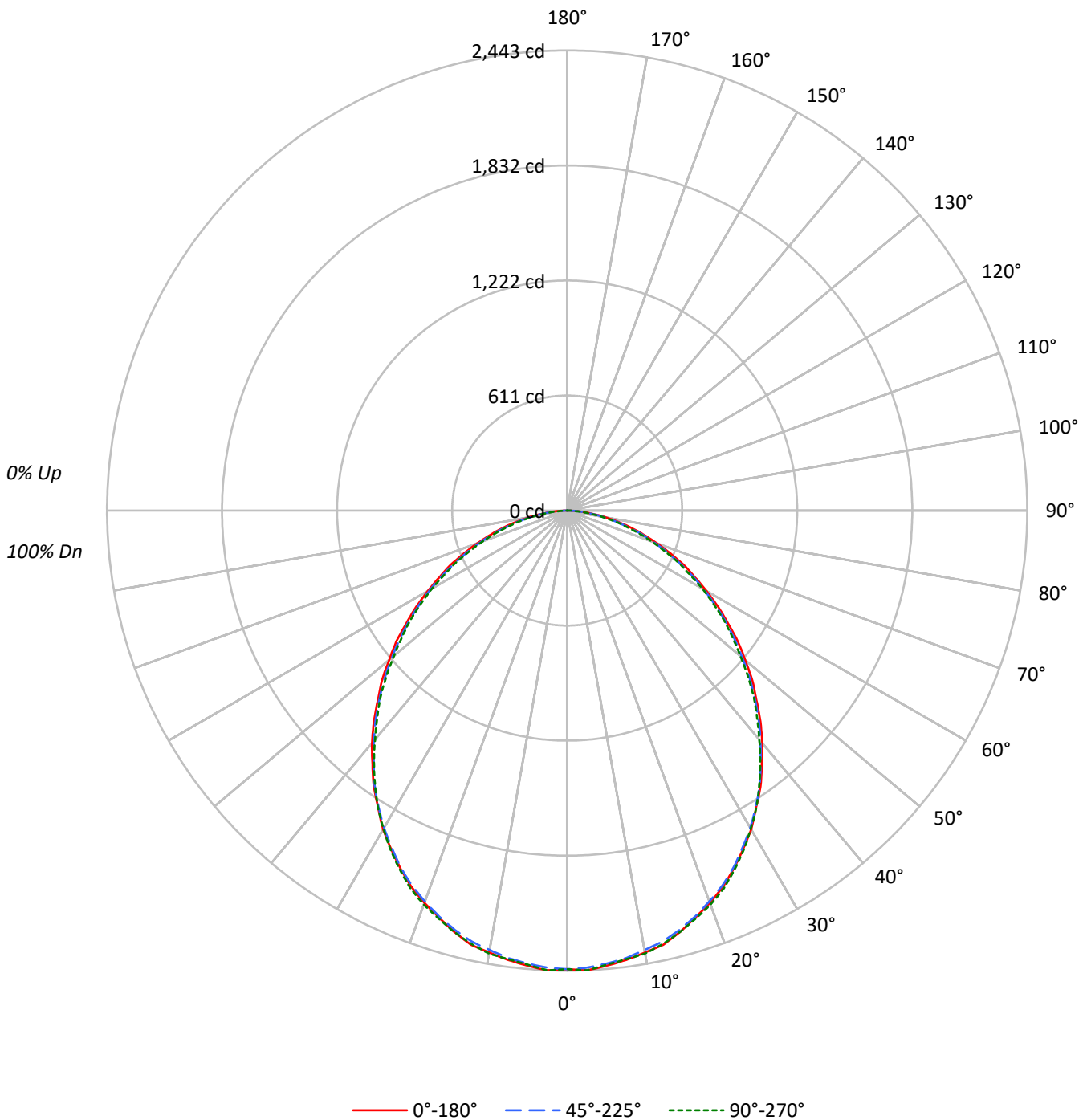
Input Watts (W): 54.498  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3276	3276	3276
5°	3276	3260	3268
10°	3255	3236	3263
15°	3226	3210	3226
20°	3173	3162	3187
25°	3110	3105	3122
30°	3036	3021	3030
35°	2940	2928	2921
40°	2832	2804	2787
45°	2704	2677	2666
50°	2581	2541	2512
55°	2444	2407	2384
60°	2298	2256	2230
65°	2172	2091	2072
70°	1991	1914	1876
75°	1829	1717	1646
80°	1605	1499	1409
85°	1297	1207	1025



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.8	3.8
10°-20°	651.4	10.8
20°-30°	963.5	15.9
30°-40°	1112.0	18.4
40°-50°	1086.1	17.9
50°-60°	917.1	15.1
60°-70°	653.3	10.8
70°-80°	353.7	5.8
80°-90°	91.3	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°	1844.6	30.4
0°-40°	2956.6	48.8
0°-60°	4959.8	81.9
0°-90°	6058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6058.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2435	2435	2435	2435	2435	
5°	2425	2425	2414	2420	2420	230
15°	2316	2306	2304	2314	2316	652
25°	2095	2083	2091	2099	2103	965
35°	1790	1776	1782	1776	1778	1117
45°	1421	1409	1407	1401	1401	1099
55°	1042	1028	1026	1016	1016	934
65°	682	668	657	649	651	672
75°	352	340	330	322	317	372
85°	84	82	78	68	66	99
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2435.1	2435.1	2435.1	2435.1	2435.1
2.5°	2443.0	2433.2	2429.3	2431.2	2443.0
5°	2425.4	2425.4	2413.6	2419.5	2419.5
7.5°	2405.8	2407.8	2396.1	2405.8	2401.9
10°	2382.4	2376.5	2368.7	2384.3	2388.2
12.5°	2360.9	2347.2	2343.3	2353.1	2355.0
15°	2315.9	2306.2	2304.2	2314.0	2315.9
17.5°	2265.1	2267.1	2259.3	2272.9	2271.0
20°	2216.3	2212.3	2208.4	2224.1	2226.0
22.5°	2161.5	2149.8	2153.7	2167.4	2171.3
25°	2095.1	2083.4	2091.2	2099.0	2102.9
27.5°	2024.7	2018.9	2016.9	2026.7	2030.6
30°	1954.4	1944.6	1944.6	1956.3	1950.5
32.5°	1868.4	1860.6	1864.5	1868.4	1870.3
35°	1790.2	1776.5	1782.4	1776.5	1778.5
37.5°	1698.3	1688.6	1686.6	1684.7	1684.7
40°	1612.4	1604.5	1596.7	1596.7	1586.9
42.5°	1518.5	1508.8	1504.9	1499.0	1493.1
45°	1420.8	1409.1	1407.1	1401.3	1401.3
47.5°	1332.9	1315.3	1313.3	1301.6	1301.6
50°	1233.2	1221.5	1213.7	1205.8	1200.0
52.5°	1143.3	1131.6	1119.9	1112.0	1106.2
55°	1041.7	1028.0	1026.0	1016.3	1016.3
57.5°	949.8	938.1	930.3	918.6	920.5
60°	854.1	842.3	838.4	828.7	828.7
62.5°	764.2	754.4	748.5	738.8	730.9
65°	682.1	668.4	656.7	648.9	650.8
67.5°	592.2	576.5	570.7	562.9	557.0
70°	506.2	496.4	486.6	476.9	476.9
72.5°	426.1	416.3	410.4	398.7	394.8
75°	351.8	340.1	330.3	322.5	316.6
77.5°	277.5	265.8	259.9	250.2	250.2
80°	207.2	199.3	193.5	189.6	181.8
82.5°	142.7	138.8	132.9	127.0	121.2
85°	84.0	82.1	78.2	68.4	66.4
87.5°	33.2	33.2	29.3	27.4	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)