

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: P296086

Luminaire Tested: **24RLN-LD5-80-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296086
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-LD5-80-UNV-L92765-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6899.0 lumens
Efficiency: N/A
Efficacy: 113.3 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

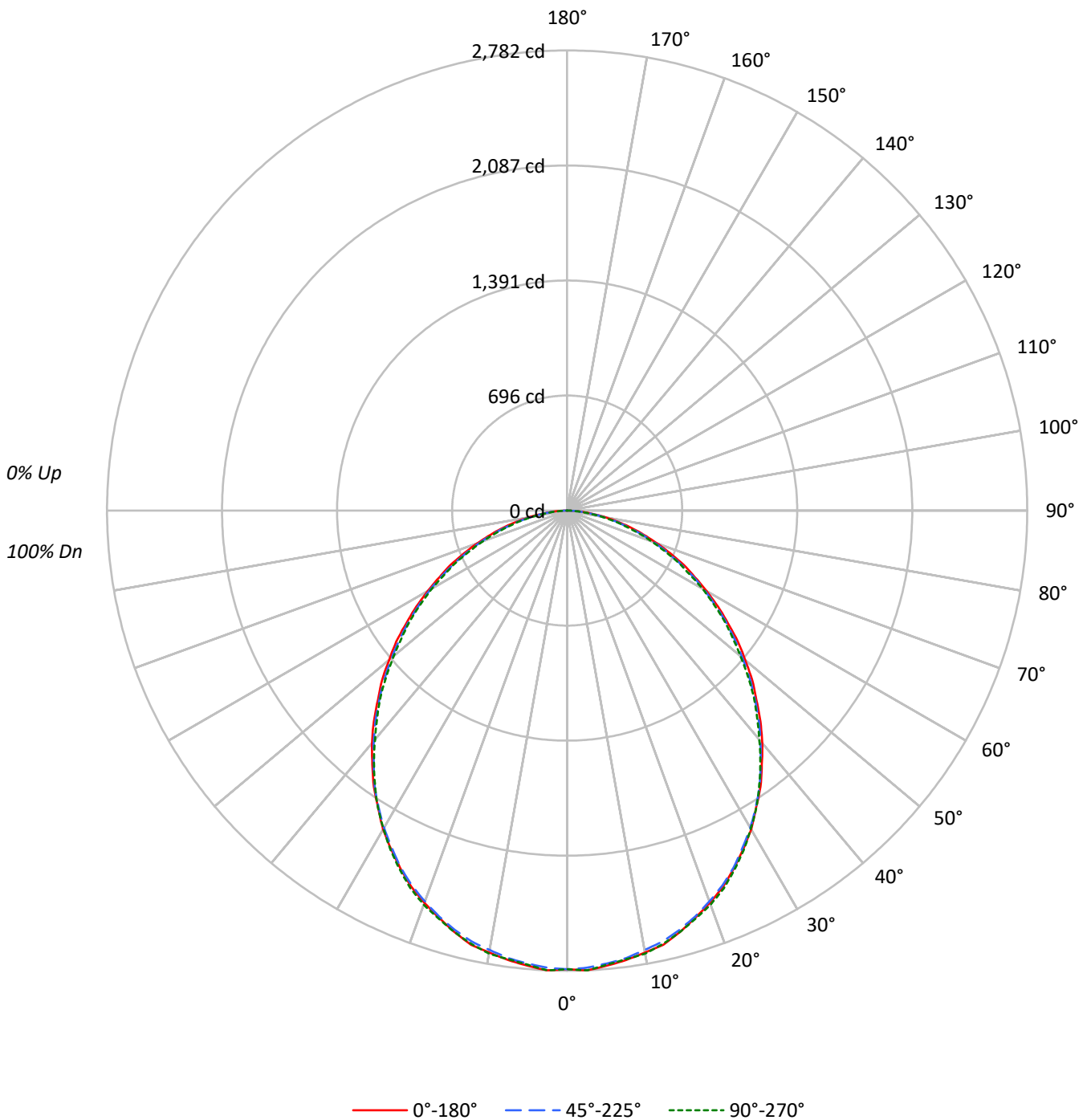
Input Watts (W): 60.915
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3731	3731	3731
5°	3731	3712	3722
10°	3707	3685	3716
15°	3674	3655	3674
20°	3614	3601	3630
25°	3542	3536	3555
30°	3458	3441	3451
35°	3349	3334	3327
40°	3225	3194	3174
45°	3079	3049	3037
50°	2940	2893	2861
55°	2783	2741	2715
60°	2617	2569	2539
65°	2473	2381	2360
70°	2268	2180	2137
75°	2083	1955	1875
80°	1828	1707	1604
85°	1477	1374	1169



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.7	3.8
10°-20°	741.8	10.8
20°-30°	1097.3	15.9
30°-40°	1266.4	18.4
40°-50°	1236.8	17.9
50°-60°	1044.4	15.1
60°-70°	743.9	10.8
70°-80°	402.8	5.8
80°-90°	103.9	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°	2100.7	30.4
0°-40°	3367.1	48.8
0°-60°	5648.3	81.9
0°-90°	6899.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6899.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2773	2773	2773	2773	2773	
5°	2762	2762	2749	2755	2755	262
15°	2637	2626	2624	2635	2637	743
25°	2386	2373	2382	2390	2395	1098
35°	2039	2023	2030	2023	2025	1272
45°	1618	1605	1602	1596	1596	1251
55°	1186	1171	1168	1157	1157	1064
65°	777	761	748	739	741	766
75°	401	387	376	367	361	424
85°	96	94	89	78	76	113
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2773.2	2773.2	2773.2	2773.2	2773.2
2.5°	2782.1	2771.0	2766.5	2768.8	2782.1
5°	2762.1	2762.1	2748.7	2755.4	2755.4
7.5°	2739.8	2742.0	2728.7	2739.8	2735.4
10°	2713.1	2706.4	2697.5	2715.3	2719.8
12.5°	2688.6	2673.0	2668.6	2679.7	2681.9
15°	2637.4	2626.3	2624.1	2635.2	2637.4
17.5°	2579.6	2581.8	2572.9	2588.5	2586.2
20°	2523.9	2519.5	2515.0	2532.8	2535.1
22.5°	2461.6	2448.3	2452.7	2468.3	2472.7
25°	2385.9	2372.6	2381.5	2390.4	2394.8
27.5°	2305.8	2299.1	2296.9	2308.0	2312.5
30°	2225.7	2214.6	2214.6	2227.9	2221.2
32.5°	2127.8	2118.9	2123.3	2127.8	2130.0
35°	2038.7	2023.1	2029.8	2023.1	2025.4
37.5°	1934.1	1923.0	1920.8	1918.5	1918.5
40°	1836.2	1827.3	1818.4	1818.4	1807.3
42.5°	1729.4	1718.2	1713.8	1707.1	1700.4
45°	1618.1	1604.7	1602.5	1595.8	1595.8
47.5°	1517.9	1497.9	1495.7	1482.3	1482.3
50°	1404.4	1391.1	1382.1	1373.2	1366.6
52.5°	1302.0	1288.7	1275.3	1266.4	1259.7
55°	1186.3	1170.7	1168.5	1157.4	1157.4
57.5°	1081.7	1068.3	1059.4	1046.1	1048.3
60°	972.6	959.3	954.8	943.7	943.7
62.5°	870.2	859.1	852.4	841.3	832.4
65°	776.8	761.2	747.8	738.9	741.2
67.5°	674.4	656.6	649.9	641.0	634.3
70°	576.5	565.3	554.2	543.1	543.1
72.5°	485.2	474.1	467.4	454.0	449.6
75°	400.6	387.3	376.1	367.2	360.6
77.5°	316.0	302.7	296.0	284.9	284.9
80°	235.9	227.0	220.3	215.9	207.0
82.5°	162.5	158.0	151.3	144.7	138.0
85°	95.7	93.5	89.0	77.9	75.7
87.5°	37.8	37.8	33.4	31.2	28.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)