

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: P296081

Luminaire Tested: **24RLN-LD5-74-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296081
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-5500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6978.0 lumens
Efficiency: N/A
Efficacy: 123.2 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

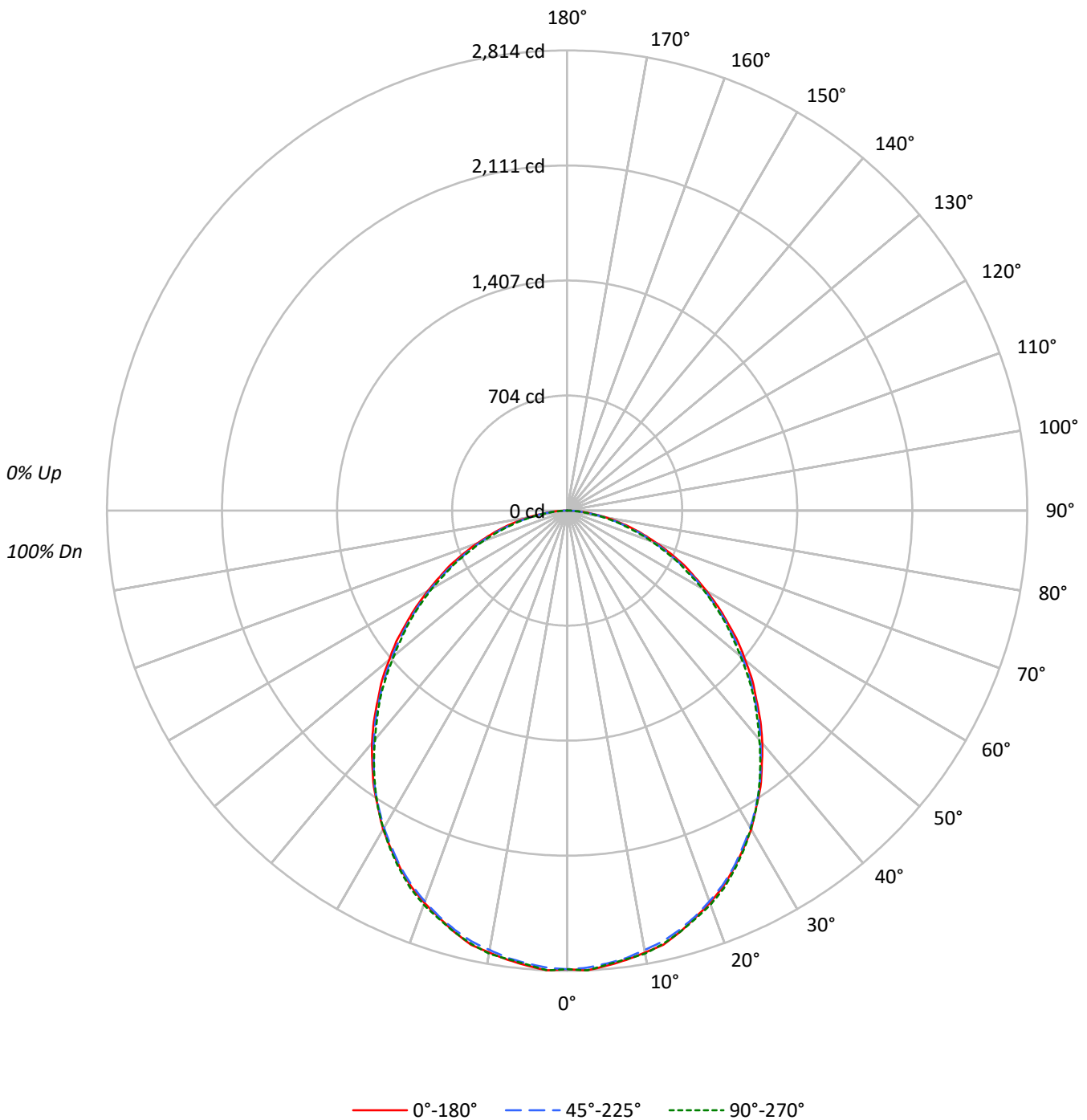
Input Watts (W): 56.637
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52					52			
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46					46			
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40					40			
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36					36			
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29					29			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3774	3774	3774
5°	3773	3755	3764
10°	3749	3728	3758
15°	3716	3697	3716
20°	3655	3642	3671
25°	3583	3576	3596
30°	3498	3480	3491
35°	3387	3372	3365
40°	3262	3230	3211
45°	3114	3084	3071
50°	2973	2926	2893
55°	2815	2772	2746
60°	2647	2599	2569
65°	2501	2408	2387
70°	2294	2205	2161
75°	2106	1978	1896
80°	1849	1727	1623
85°	1494	1389	1181



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.7	3.8
10°-20°	750.3	10.8
20°-30°	1109.8	15.9
30°-40°	1280.9	18.4
40°-50°	1251.0	17.9
50°-60°	1056.4	15.1
60°-70°	752.4	10.8
70°-80°	407.4	5.8
80°-90°	105.1	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°	2124.8	30.4
0°-40°	3405.6	48.8
0°-60°	5713.0	81.9
0°-90°	6978.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6978.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2805	2805	2805	2805	2805	
5°	2794	2794	2780	2787	2787	265
15°	2668	2656	2654	2665	2668	751
25°	2413	2400	2409	2418	2422	1111
35°	2062	2046	2053	2046	2049	1287
45°	1637	1623	1621	1614	1614	1266
55°	1200	1184	1182	1171	1171	1076
65°	786	770	756	747	750	775
75°	405	392	380	371	365	429
85°	97	94	90	79	76	114
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2805.0	2805.0	2805.0	2805.0	2805.0
2.5°	2814.0	2802.7	2798.2	2800.5	2814.0
5°	2793.7	2793.7	2780.2	2786.9	2786.9
7.5°	2771.2	2773.4	2759.9	2771.2	2766.7
10°	2744.2	2737.4	2728.4	2746.4	2750.9
12.5°	2719.4	2703.7	2699.2	2710.4	2712.7
15°	2667.6	2656.4	2654.1	2665.4	2667.6
17.5°	2609.1	2611.4	2602.4	2618.1	2615.9
20°	2552.8	2548.3	2543.8	2561.8	2564.1
22.5°	2489.8	2476.3	2480.8	2496.5	2501.0
25°	2413.3	2399.7	2408.8	2417.8	2422.3
27.5°	2332.2	2325.5	2323.2	2334.5	2339.0
30°	2251.2	2239.9	2239.9	2253.4	2246.7
32.5°	2152.1	2143.1	2147.6	2152.1	2154.4
35°	2062.1	2046.3	2053.1	2046.3	2048.6
37.5°	1956.3	1945.0	1942.8	1940.5	1940.5
40°	1857.2	1848.2	1839.2	1839.2	1827.9
42.5°	1749.2	1737.9	1733.4	1726.6	1719.9
45°	1636.6	1623.1	1620.8	1614.1	1614.1
47.5°	1535.3	1515.0	1512.8	1499.3	1499.3
50°	1420.5	1407.0	1398.0	1389.0	1382.2
52.5°	1316.9	1303.4	1289.9	1280.9	1274.2
55°	1199.9	1184.1	1181.9	1170.6	1170.6
57.5°	1094.1	1080.6	1071.6	1058.0	1060.3
60°	983.8	970.3	965.8	954.5	954.5
62.5°	880.2	869.0	862.2	850.9	841.9
65°	785.7	769.9	756.4	747.4	749.6
67.5°	682.1	664.1	657.3	648.3	641.6
70°	583.1	571.8	560.5	549.3	549.3
72.5°	490.8	479.5	472.7	459.2	454.7
75°	405.2	391.7	380.4	371.4	364.7
77.5°	319.7	306.2	299.4	288.1	288.1
80°	238.6	229.6	222.9	218.4	209.4
82.5°	164.3	159.8	153.1	146.3	139.6
85°	96.8	94.5	90.0	78.8	76.5
87.5°	38.3	38.3	33.8	31.5	29.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)