

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: P229863

Luminaire Tested: **24RLN-LD5-67-UNV-L840-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229863
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36062)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-67-UNV-L840-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR
Light Source: (252)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6672.0 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

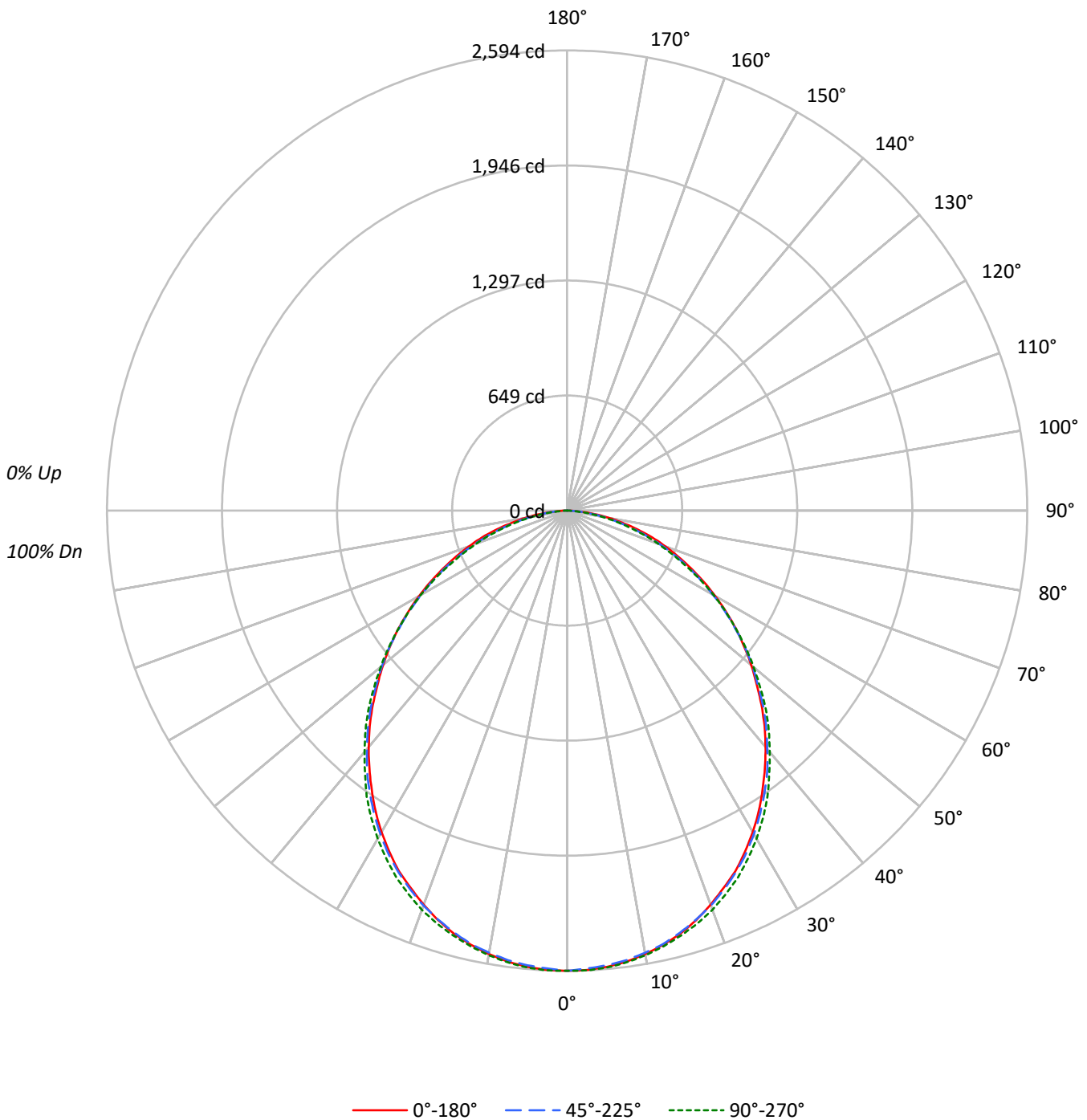
Input Watts (W): 53.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P229863

CATALOG NUMBER: 24RLN-LD5-67-UNV-L840-CD1-SVPD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P229863

CATALOG NUMBER: 24RLN-LD5-67-UNV-L840-CD1-SVPD1-U

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	89	91	89	87	85																												
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71																												
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60																												
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52																												
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45																												
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40																												
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35																												
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31																												
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28																												
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3973	3973	3973
5°	3969	3956	3976
10°	3949	3936	3959
15°	3915	3905	3932
20°	3854	3861	3903
25°	3792	3803	3853
30°	3701	3724	3777
35°	3591	3627	3683
40°	3479	3509	3551
45°	3355	3387	3433
50°	3230	3245	3270
55°	3104	3086	3098
60°	2955	2909	2922
65°	2787	2726	2680
70°	2635	2493	2436
75°	2427	2213	2138
80°	2136	1874	1761
85°	1680	1307	970



TEST NUMBER: P229863

CATALOG NUMBER: 24RLN-LD5-67-UNV-L840-CD1-SVPD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.9	3.7
10°-20°	696.2	10.4
20°-30°	1037.7	15.6
30°-40°	1213.1	18.2
40°-50°	1204.7	18.1
50°-60°	1034.5	15.5
60°-70°	745.2	11.2
70°-80°	401.2	6.0
80°-90°	94.6	1.4
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°	1978.7	29.7
0°-40°	3191.8	47.8
0°-60°	5431.0	81.4
0°-90°	6672.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6672.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2594	2594	2594	2594	2594	
5°	2582	2579	2573	2582	2586	245
15°	2469	2462	2462	2477	2480	695
25°	2244	2235	2250	2273	2280	1031
35°	1921	1919	1940	1961	1970	1202
45°	1549	1545	1564	1576	1585	1195
55°	1162	1152	1156	1162	1160	1038
65°	769	756	752	746	739	764
75°	410	385	374	363	361	434
85°	96	87	74	60	55	115
90°	0	0	0	0	0	



TEST NUMBER: P229863

CATALOG NUMBER: 24RLN-LD5-67-UNV-L840-CD1-SVPD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2594.2	2594.2	2594.2	2594.2	2594.2
2.5°	2592.1	2590.0	2583.6	2592.1	2594.2
5°	2581.5	2579.3	2573.0	2581.5	2585.7
7.5°	2564.5	2560.2	2556.0	2564.5	2568.7
10°	2539.0	2534.7	2530.5	2541.1	2545.3
12.5°	2507.1	2502.8	2502.8	2511.3	2515.6
15°	2468.8	2462.5	2462.5	2477.3	2479.5
17.5°	2420.0	2415.7	2417.9	2434.9	2441.2
20°	2364.7	2362.6	2369.0	2388.1	2394.5
22.5°	2303.1	2301.0	2311.6	2335.0	2339.2
25°	2243.6	2235.1	2250.0	2273.4	2279.8
27.5°	2169.3	2162.9	2182.0	2203.3	2209.6
30°	2092.8	2086.4	2105.5	2128.9	2135.3
32.5°	2009.9	2005.7	2024.8	2048.2	2054.5
35°	1920.7	1918.6	1939.8	1961.1	1969.6
37.5°	1831.5	1829.3	1852.7	1869.7	1871.8
40°	1740.1	1735.8	1755.0	1774.1	1776.2
42.5°	1646.6	1640.2	1661.5	1676.4	1682.7
45°	1548.9	1544.6	1563.7	1576.5	1585.0
47.5°	1449.0	1449.0	1459.6	1474.5	1476.6
50°	1355.5	1349.2	1361.9	1370.4	1372.5
52.5°	1257.8	1251.4	1262.0	1264.2	1268.4
55°	1162.2	1151.6	1155.8	1162.2	1160.1
57.5°	1062.3	1045.3	1053.8	1053.8	1058.1
60°	964.6	949.7	949.7	949.7	954.0
62.5°	866.9	852.0	852.0	849.9	847.7
65°	769.1	756.4	752.1	745.8	739.4
67.5°	675.6	660.8	652.3	643.8	637.4
70°	588.5	563.0	556.7	543.9	543.9
72.5°	501.4	475.9	463.2	454.7	452.6
75°	410.1	384.6	373.9	363.3	361.2
77.5°	320.8	303.8	286.8	278.3	274.1
80°	242.2	227.3	212.5	197.6	199.7
82.5°	165.7	150.9	140.2	127.5	123.2
85°	95.6	87.1	74.4	59.5	55.2
87.5°	40.4	29.7	21.2	21.2	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)