

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: P229754

Luminaire Tested: **24RLN-LD5-74-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36038)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-74-UNV-L930-CD1-U
Description: METALUX 2X4 RLN LED TROFFER
Light Source: (252)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6169.0 lumens
Efficiency: N/A
Efficacy: 100.1 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

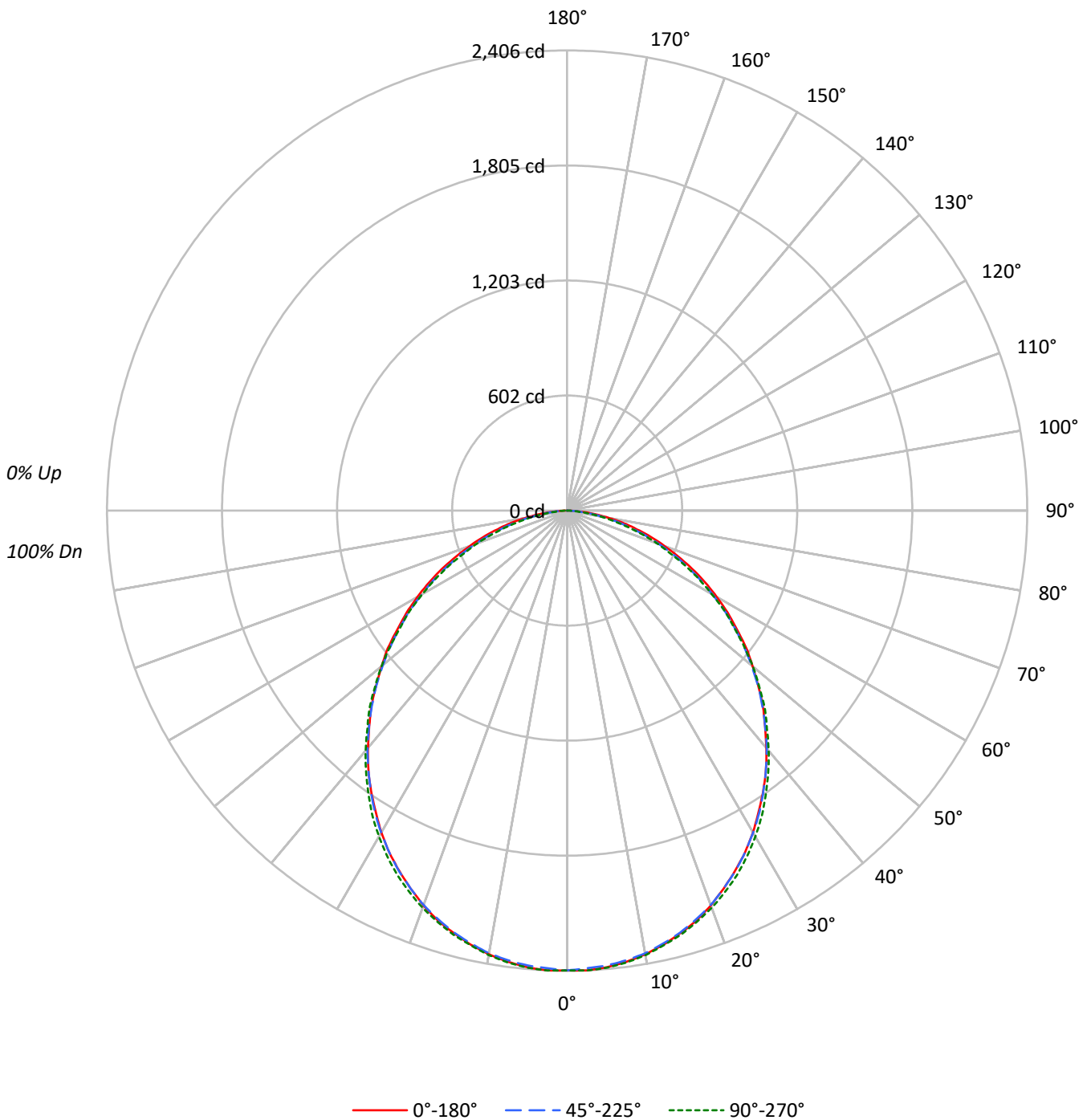
Input Watts (W): 61.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	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	32
9	58	44	36	31	56	44	36	31	43	36	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°	3683	3683	3683
5°	3685	3670	3688
10°	3664	3655	3670
15°	3628	3622	3640
20°	3581	3578	3603
25°	3513	3516	3552
30°	3436	3439	3480
35°	3342	3346	3385
40°	3240	3248	3279
45°	3136	3127	3165
50°	3015	2996	3020
55°	2892	2855	2845
60°	2770	2687	2675
65°	2616	2504	2469
70°	2425	2277	2233
75°	2228	2010	1906
80°	1951	1678	1523
85°	1603	1160	921



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.2	3.7
10°-20°	645.4	10.5
20°-30°	960.3	15.6
30°-40°	1121.9	18.2
40°-50°	1115.3	18.1
50°-60°	958.3	15.5
60°-70°	688.2	11.2
70°-80°	366.5	5.9
80°-90°	85.8	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°	1832.9	29.7
0°-40°	2954.8	47.9
0°-60°	5028.4	81.5
0°-90°	6169.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6169.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2404	2404	2404	2404	2404	
5°	2397	2393	2387	2395	2399	227
15°	2288	2288	2284	2292	2296	645
25°	2078	2078	2080	2096	2102	957
35°	1787	1784	1789	1809	1811	1118
45°	1448	1436	1444	1452	1461	1115
55°	1083	1069	1069	1069	1065	971
65°	722	701	691	683	681	714
75°	376	355	340	330	322	401
85°	91	78	66	54	52	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2404.5	2404.5	2404.5	2404.5	2404.5
2.5°	2406.4	2402.5	2394.8	2404.5	2406.4
5°	2396.7	2392.8	2387.0	2394.8	2398.7
7.5°	2379.2	2375.4	2371.5	2379.2	2383.1
10°	2356.0	2354.0	2350.1	2359.8	2359.8
12.5°	2324.9	2323.0	2319.1	2328.8	2328.8
15°	2288.0	2288.0	2284.2	2291.9	2295.8
17.5°	2247.3	2245.3	2241.5	2251.2	2255.0
20°	2196.8	2196.8	2194.9	2206.5	2210.4
22.5°	2138.6	2138.6	2138.6	2154.1	2158.0
25°	2078.4	2078.4	2080.4	2095.9	2101.7
27.5°	2014.4	2012.5	2014.4	2031.9	2037.7
30°	1942.6	1938.7	1944.5	1962.0	1967.8
32.5°	1865.0	1861.1	1870.8	1886.3	1894.1
35°	1787.3	1783.5	1789.3	1808.7	1810.6
37.5°	1707.8	1698.1	1707.8	1725.2	1727.2
40°	1620.4	1612.7	1624.3	1632.1	1639.9
42.5°	1531.2	1527.3	1533.1	1546.7	1546.7
45°	1447.7	1436.1	1443.8	1451.6	1461.3
47.5°	1354.6	1348.8	1352.6	1358.5	1362.3
50°	1265.3	1255.6	1257.5	1263.4	1267.2
52.5°	1181.9	1162.5	1162.5	1166.3	1166.3
55°	1082.9	1069.3	1069.3	1069.3	1065.4
57.5°	995.6	978.1	976.2	976.2	976.2
60°	904.3	883.0	877.2	877.2	873.3
62.5°	813.1	793.7	786.0	778.2	778.2
65°	721.9	700.6	690.9	683.1	681.2
67.5°	628.8	613.2	601.6	591.9	582.2
70°	541.4	524.0	508.5	498.7	498.7
72.5°	459.9	440.5	425.0	413.4	407.5
75°	376.5	355.1	339.6	329.9	322.1
77.5°	302.7	279.5	263.9	250.3	242.6
80°	221.2	203.8	190.2	176.6	172.7
82.5°	153.3	139.7	124.2	114.5	110.6
85°	91.2	77.6	66.0	54.3	52.4
87.5°	36.9	27.2	21.3	21.3	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)