

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: P219031

Luminaire Tested: **24GR-LD5-72-F1-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219031
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35585)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-72-F1-UNV-L930-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5849.9 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

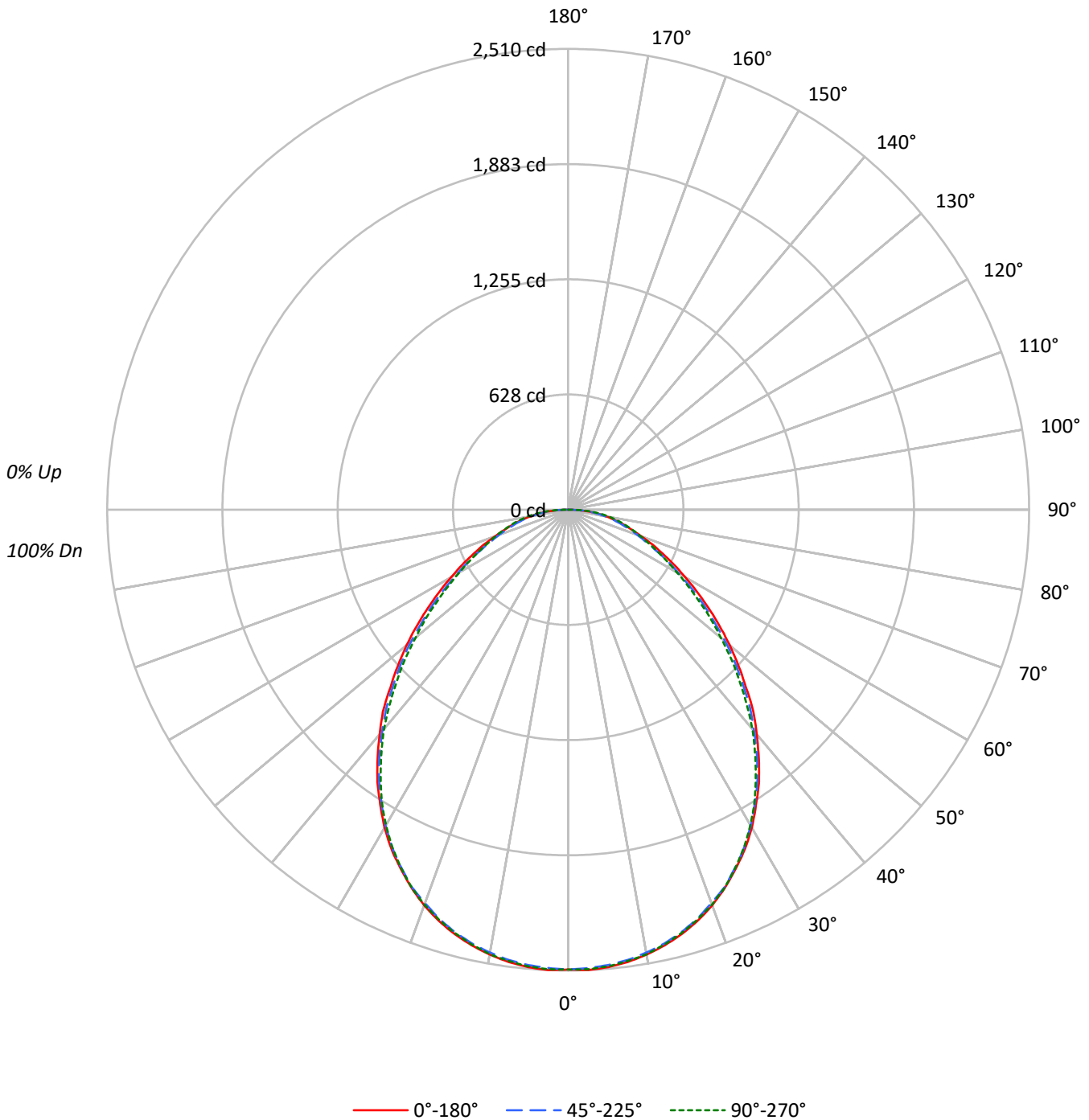
Input Watts (W): 56.061
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P219031

CATALOG NUMBER: 24GR-LD5-72-F1-UNV-L930-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P219031

CATALOG NUMBER: 24GR-LD5-72-F1-UNV-L930-CD1-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	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	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	80	98	90	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3836	3836	3836
5°	3845	3827	3838
10°	3827	3810	3824
15°	3794	3777	3786
20°	3738	3716	3731
25°	3647	3635	3638
30°	3536	3516	3509
35°	3386	3359	3329
40°	3192	3150	3120
45°	2966	2913	2858
50°	2734	2663	2583
55°	2486	2399	2324
60°	2251	2133	2094
65°	2059	1922	1935
70°	1894	1785	1870
75°	1842	1746	1906
80°	1846	1798	2029
85°	2030	1917	2235



TEST NUMBER: P219031

CATALOG NUMBER: 24GR-LD5-72-F1-UNV-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.6	4.0
10°-20°	671.6	11.5
20°-30°	989.6	16.9
30°-40°	1119.2	19.1
40°-50°	1038.1	17.7
50°-60°	806.5	13.8
60°-70°	540.8	9.2
70°-80°	324.2	5.5
80°-90°	123.3	2.1
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°	1897.9	32.4
0°-40°	3017.0	51.6
0°-60°	4861.6	83.1
0°-90°	5849.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5849.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2505	2505	2505	2505	2505	
5°	2501	2494	2489	2488	2497	237
15°	2393	2383	2382	2378	2387	674
25°	2158	2156	2151	2148	2153	993
35°	1811	1804	1797	1786	1780	1129
45°	1369	1364	1345	1324	1320	1059
55°	931	920	898	876	870	835
65°	568	550	530	528	534	567
75°	311	300	295	309	322	329
85°	116	108	109	128	127	121
90°	0	0	0	0	0	



TEST NUMBER: P219031

CATALOG NUMBER: 24GR-LD5-72-F1-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2504.7	2504.7	2504.7	2504.7	2504.7
2.5°	2510.1	2502.0	2498.4	2496.6	2504.7
5°	2501.1	2493.9	2489.4	2487.6	2496.6
7.5°	2484.8	2476.7	2474.0	2470.4	2479.4
10°	2460.5	2453.3	2449.7	2447.0	2458.7
12.5°	2429.8	2423.5	2419.9	2418.1	2425.3
15°	2392.8	2382.9	2382.0	2377.5	2387.4
17.5°	2346.8	2337.8	2336.0	2334.2	2340.5
20°	2293.6	2284.6	2280.1	2279.2	2289.1
22.5°	2229.6	2223.3	2225.1	2219.7	2226.9
25°	2158.3	2155.6	2151.1	2147.5	2152.9
27.5°	2084.4	2075.3	2075.3	2068.1	2073.5
30°	1999.6	1993.3	1987.8	1980.6	1984.2
32.5°	1904.0	1901.3	1893.1	1885.9	1887.7
35°	1811.1	1803.8	1796.6	1785.8	1780.4
37.5°	1704.6	1697.4	1688.4	1673.0	1671.2
40°	1596.4	1590.1	1575.6	1559.4	1560.3
42.5°	1493.6	1483.7	1465.7	1444.0	1439.5
45°	1369.2	1363.7	1344.8	1324.1	1319.5
47.5°	1258.2	1254.6	1231.1	1209.5	1204.1
50°	1147.3	1137.3	1117.5	1095.8	1084.1
52.5°	1038.1	1025.5	1000.2	985.8	980.4
55°	930.8	920.0	898.3	875.8	870.3
57.5°	830.7	818.9	792.8	776.5	773.8
60°	735.0	724.2	696.3	684.5	683.6
62.5°	650.3	632.2	613.3	605.2	606.1
65°	568.2	550.1	530.3	528.5	533.9
67.5°	496.1	477.2	457.3	464.5	469.9
70°	423.0	409.5	398.7	410.4	417.6
72.5°	360.8	352.7	342.8	359.0	368.0
75°	311.2	300.4	295.0	309.4	322.0
77.5°	258.0	249.0	249.0	264.3	277.8
80°	209.3	203.0	203.9	221.9	230.0
82.5°	164.2	155.1	156.0	178.6	184.0
85°	115.5	108.2	109.1	128.1	127.2
87.5°	60.4	57.7	60.4	74.0	70.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)