

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: P219076

Luminaire Tested: **24GR-LD5-72-F1-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219076
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-L950-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6715.8 lumens
Efficiency: N/A
Efficacy: 119.8 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

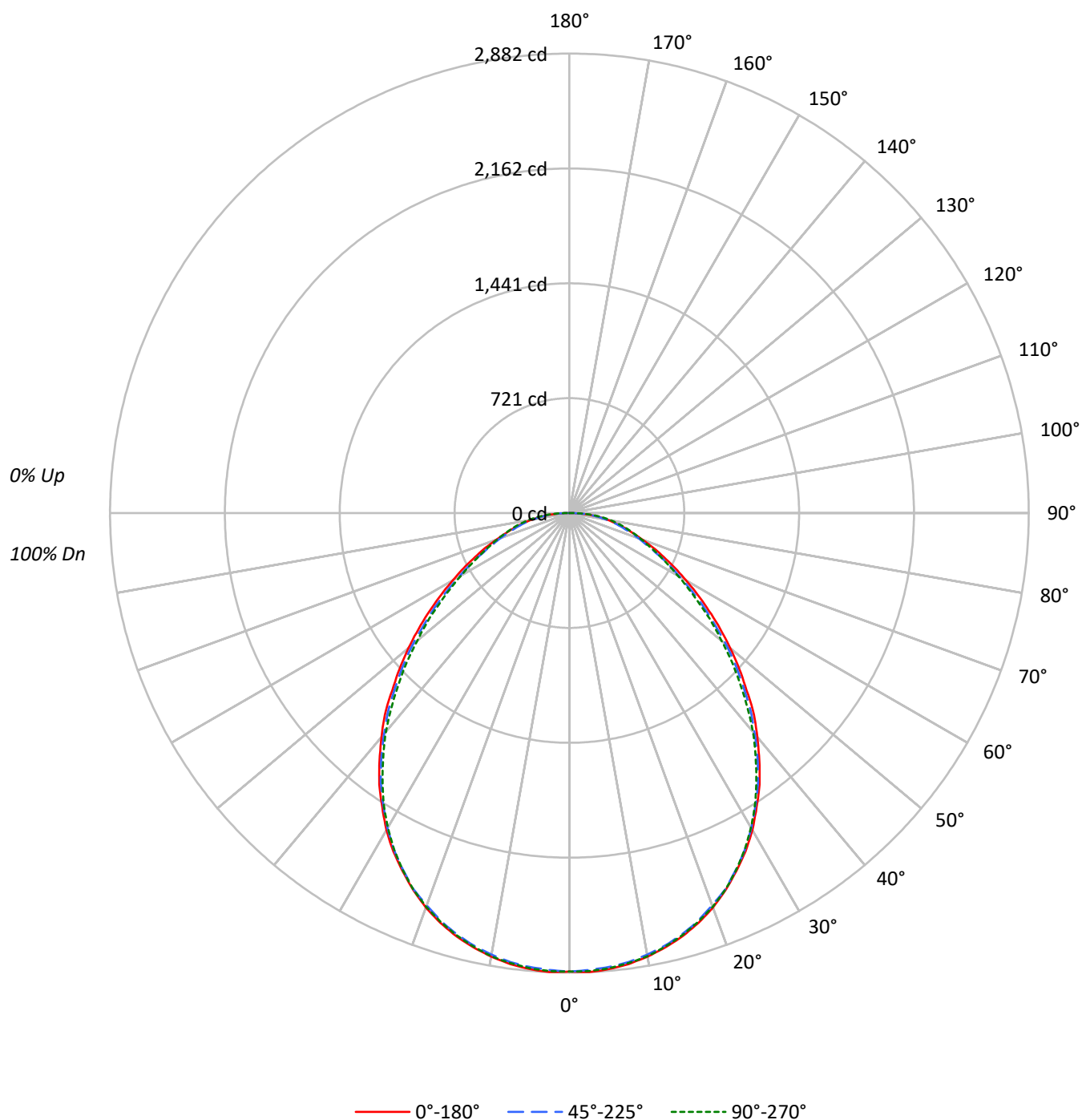
Input Watts (W): 56.061
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	4404	4404	4404
5°	4414	4394	4406
10°	4393	4374	4390
15°	4356	4336	4346
20°	4292	4266	4283
25°	4187	4174	4177
30°	4060	4036	4029
35°	3888	3857	3822
40°	3664	3617	3582
45°	3405	3344	3281
50°	3138	3057	2966
55°	2853	2754	2668
60°	2585	2448	2404
65°	2364	2207	2222
70°	2175	2049	2147
75°	2114	2004	2187
80°	2119	2065	2329
85°	2328	2202	2566



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.6	4.0
10°-20°	771.0	11.5
20°-30°	1136.1	16.9
30°-40°	1284.8	19.1
40°-50°	1191.8	17.7
50°-60°	925.9	13.8
60°-70°	620.9	9.2
70°-80°	372.1	5.5
80°-90°	141.6	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°	2178.8	32.4
0°-40°	3463.6	51.6
0°-60°	5581.3	83.1
0°-90°	6715.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6715.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2875	2875	2875	2875	2875	
5°	2871	2863	2858	2856	2866	273
15°	2747	2736	2735	2729	2741	774
25°	2478	2475	2470	2465	2472	1140
35°	2079	2071	2063	2050	2044	1296
45°	1572	1566	1544	1520	1515	1215
55°	1069	1056	1031	1005	999	959
65°	652	632	609	607	613	651
75°	357	345	339	355	370	377
85°	132	124	125	147	146	139
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2875.4	2875.4	2875.4	2875.4	2875.4
2.5°	2881.6	2872.3	2868.1	2866.0	2875.4
5°	2871.2	2863.0	2857.8	2855.8	2866.0
7.5°	2852.7	2843.3	2840.2	2836.0	2846.4
10°	2824.6	2816.4	2812.3	2809.2	2822.6
12.5°	2789.4	2782.2	2778.0	2776.0	2784.3
15°	2747.0	2735.6	2734.6	2729.4	2740.8
17.5°	2694.2	2683.9	2681.8	2679.7	2687.0
20°	2633.1	2622.8	2617.6	2616.5	2627.9
22.5°	2559.6	2552.4	2554.5	2548.2	2556.5
25°	2477.8	2474.7	2469.6	2465.4	2471.6
27.5°	2392.9	2382.6	2382.6	2374.3	2380.5
30°	2295.6	2288.3	2282.1	2273.8	2278.0
32.5°	2185.8	2182.7	2173.4	2165.1	2167.2
35°	2079.2	2070.9	2062.6	2050.1	2044.0
37.5°	1957.0	1948.7	1938.3	1920.7	1918.6
40°	1832.7	1825.5	1808.9	1790.2	1791.3
42.5°	1714.7	1703.2	1682.6	1657.7	1652.6
45°	1571.8	1565.6	1543.8	1520.1	1514.9
47.5°	1444.4	1440.3	1413.4	1388.5	1382.3
50°	1317.0	1305.7	1282.9	1258.1	1244.6
52.5°	1191.8	1177.3	1148.3	1131.8	1125.5
55°	1068.6	1056.1	1031.3	1005.4	999.2
57.5°	953.7	940.2	910.2	891.5	888.4
60°	843.8	831.5	799.3	785.9	784.9
62.5°	746.6	725.8	704.1	694.8	695.8
65°	652.3	631.6	608.9	606.8	613.0
67.5°	569.5	547.7	525.0	533.3	539.4
70°	485.6	470.1	457.6	471.1	479.4
72.5°	414.1	404.9	393.5	412.1	422.4
75°	357.3	344.8	338.6	355.2	369.6
77.5°	296.1	285.7	285.7	303.4	319.0
80°	240.2	233.0	234.1	254.7	264.0
82.5°	188.5	178.1	179.1	205.0	211.2
85°	132.5	124.2	125.3	147.1	146.0
87.5°	69.3	66.2	69.3	84.9	80.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)