

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: P293319

Luminaire Tested: **24GR-LD5-64-F125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293319
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-F125-UNV-L93050-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5874.0 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

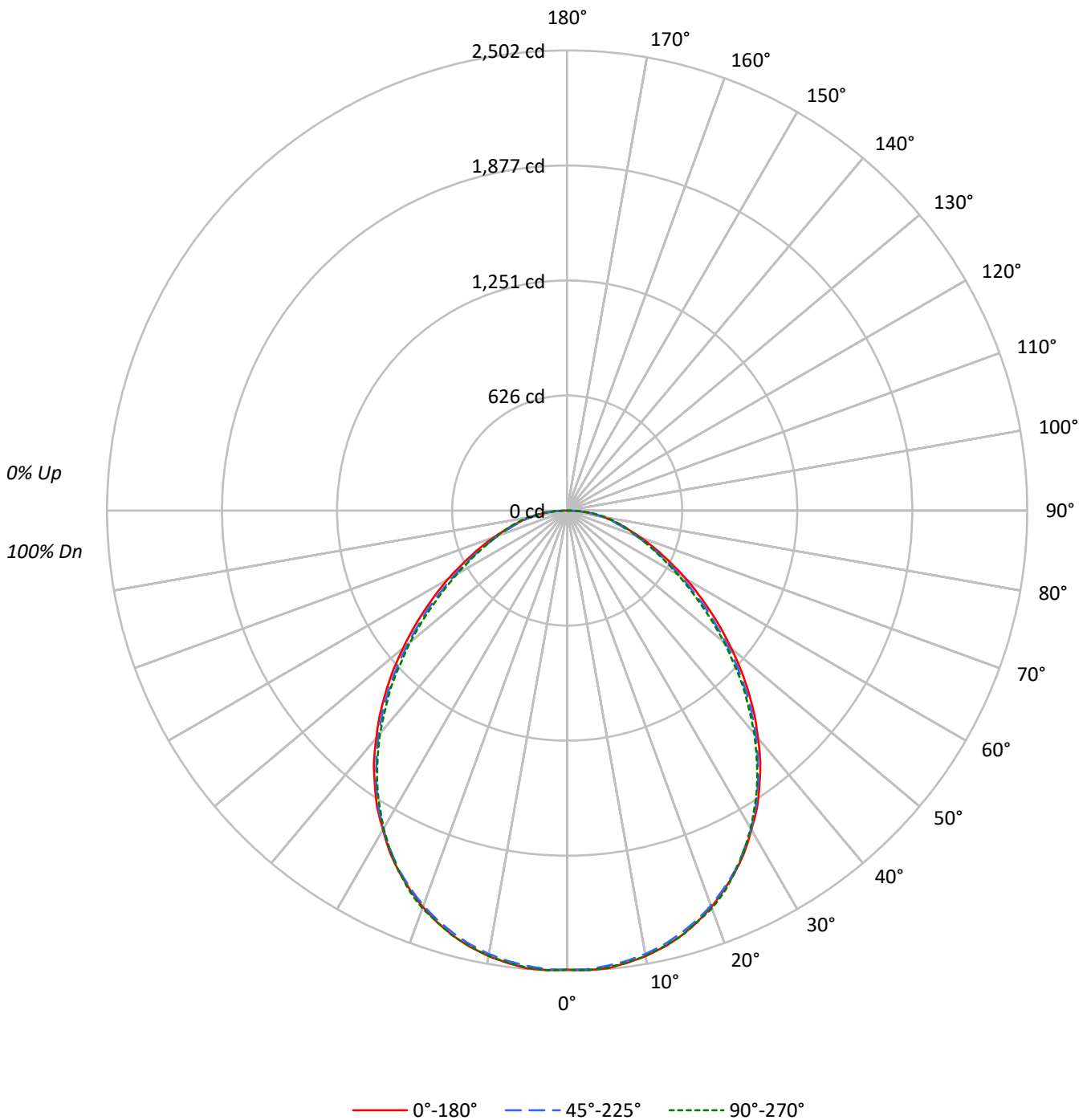
Input Watts (W): 47.136492
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	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	73	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°	3359	3359	3359
5°	3374	3356	3369
10°	3361	3344	3359
15°	3334	3316	3337
20°	3285	3272	3296
25°	3214	3206	3213
30°	3113	3107	3100
35°	2995	2973	2960
40°	2835	2803	2780
45°	2652	2603	2572
50°	2437	2372	2331
55°	2223	2141	2078
60°	2019	1910	1861
65°	1818	1716	1687
70°	1665	1557	1600
75°	1556	1484	1594
80°	1543	1516	1664
85°	1573	1587	1814



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.3	4.0
10°-20°	671.7	11.4
20°-30°	992.3	16.9
30°-40°	1128.2	19.2
40°-50°	1053.5	17.9
50°-60°	819.3	13.9
60°-70°	543.6	9.3
70°-80°	314.6	5.4
80°-90°	114.4	1.9
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°	1900.3	32.4
0°-40°	3028.5	51.6
0°-60°	4901.3	83.4
0°-90°	5874.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5874.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2496	2496	2496	2496	2496	
5°	2498	2485	2484	2489	2495	237
15°	2394	2382	2381	2380	2396	674
25°	2165	2156	2160	2155	2164	995
35°	1823	1814	1810	1797	1802	1138
45°	1394	1383	1368	1351	1352	1074
55°	948	934	913	889	886	850
65°	571	554	539	529	530	571
75°	299	292	286	298	307	320
85°	102	100	103	117	118	111
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2496.4	2496.4	2496.4	2496.4	2496.4
2.5°	2500.1	2492.8	2496.4	2493.7	2502.0
5°	2498.3	2485.4	2484.5	2489.1	2494.6
7.5°	2480.8	2467.1	2469.8	2469.8	2479.0
10°	2459.7	2446.0	2447.8	2448.7	2458.8
12.5°	2431.3	2417.5	2418.4	2417.5	2427.6
15°	2393.6	2381.7	2380.8	2379.8	2395.5
17.5°	2347.7	2331.2	2336.7	2337.6	2345.9
20°	2294.5	2281.6	2285.3	2284.4	2301.8
22.5°	2231.1	2221.9	2224.7	2222.8	2239.4
25°	2165.0	2155.8	2159.5	2154.9	2164.1
27.5°	2090.6	2084.2	2080.5	2077.8	2084.2
30°	2003.4	1999.7	1999.7	1987.8	1995.1
32.5°	1920.8	1908.8	1908.8	1904.2	1899.7
35°	1823.4	1814.3	1809.7	1796.8	1802.3
37.5°	1726.1	1705.0	1703.2	1693.1	1693.1
40°	1614.1	1602.2	1595.7	1584.7	1582.9
42.5°	1507.6	1495.7	1484.6	1466.3	1462.6
45°	1393.8	1382.7	1368.0	1350.6	1351.5
47.5°	1280.8	1265.2	1251.4	1230.3	1227.6
50°	1164.2	1153.2	1133.0	1114.6	1113.7
52.5°	1055.0	1037.5	1019.1	997.1	997.1
55°	947.5	933.8	912.6	888.8	886.0
57.5°	844.7	831.8	808.0	790.5	785.9
60°	750.1	731.8	709.7	695.0	691.4
62.5°	655.6	639.0	622.5	607.8	606.9
65°	571.1	553.6	539.0	528.9	529.8
67.5°	494.9	480.2	463.7	460.9	461.8
70°	423.3	407.7	395.7	402.1	406.7
72.5°	355.3	347.1	338.8	348.0	354.4
75°	299.3	292.0	285.5	298.4	306.7
77.5°	247.9	242.4	241.5	252.5	259.8
80°	199.2	192.8	195.6	208.4	214.8
82.5°	151.5	146.9	147.8	163.4	168.0
85°	101.9	100.1	102.8	116.6	117.5
87.5°	54.2	54.2	56.0	64.3	61.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)