

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: P293328

Luminaire Tested: **24GR-LD5-85-F125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293328
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-LD5-85-F125-UNV-L93050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7046.0 lumens
Efficiency: N/A
Efficacy: 110.8 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

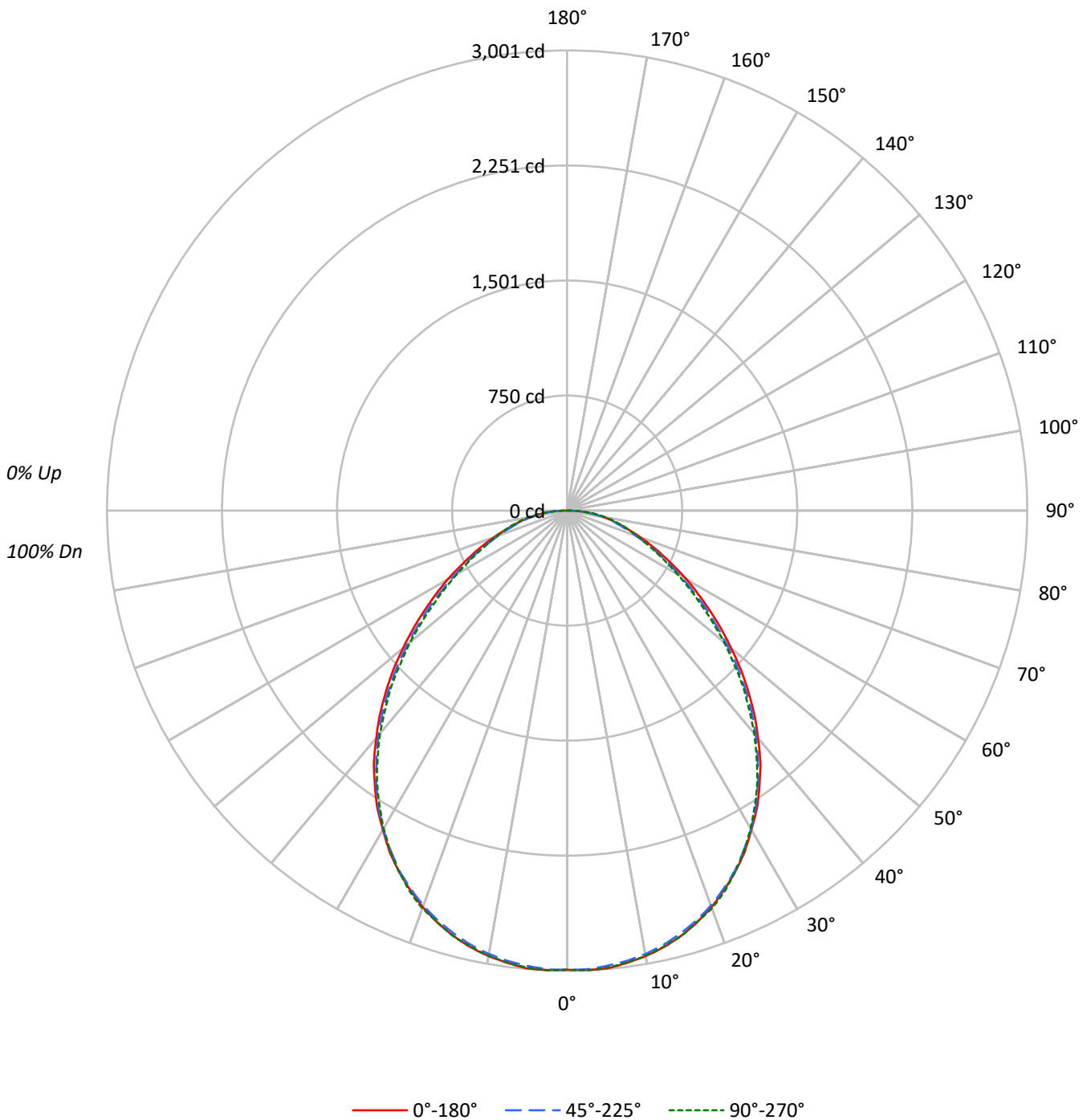
Input Watts (W): 63.588657
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4029	4029	4029
5°	4048	4025	4041
10°	4031	4012	4030
15°	3999	3978	4003
20°	3941	3925	3953
25°	3855	3846	3854
30°	3734	3727	3718
35°	3593	3565	3551
40°	3401	3362	3335
45°	3181	3123	3085
50°	2923	2845	2796
55°	2666	2568	2493
60°	2421	2291	2232
65°	2181	2058	2023
70°	1997	1867	1919
75°	1866	1781	1912
80°	1852	1818	1997
85°	1886	1905	2177



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.4	4.0
10°-20°	805.7	11.4
20°-30°	1190.3	16.9
30°-40°	1353.3	19.2
40°-50°	1263.8	17.9
50°-60°	982.8	13.9
60°-70°	652.1	9.3
70°-80°	377.4	5.4
80°-90°	137.2	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°	2279.4	32.4
0°-40°	3632.7	51.6
0°-60°	5879.3	83.4
0°-90°	7046.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7046.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2994	2994	2994	2994	2994	
5°	2997	2981	2980	2986	2992	284
15°	2871	2857	2856	2855	2873	809
25°	2597	2586	2590	2585	2596	1194
35°	2187	2176	2171	2155	2162	1366
45°	1672	1659	1641	1620	1621	1288
55°	1137	1120	1095	1066	1063	1019
65°	685	664	646	634	636	685
75°	359	350	342	358	368	384
85°	122	120	123	140	141	133
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2994.5	2994.5	2994.5	2994.5	2994.5
2.5°	2999.0	2990.1	2994.5	2991.2	3001.2
5°	2996.8	2981.3	2980.2	2985.7	2992.3
7.5°	2975.8	2959.3	2962.6	2962.6	2973.6
10°	2950.5	2934.0	2936.2	2937.3	2949.4
12.5°	2916.4	2899.8	2900.9	2899.8	2911.9
15°	2871.2	2856.9	2855.8	2854.7	2873.4
17.5°	2816.1	2796.3	2802.9	2804.0	2813.9
20°	2752.3	2736.8	2741.2	2740.1	2761.1
22.5°	2676.3	2665.2	2668.6	2666.3	2686.2
25°	2597.0	2586.0	2590.4	2584.8	2595.9
27.5°	2507.8	2500.0	2495.6	2492.3	2500.0
30°	2403.1	2398.7	2398.7	2384.4	2393.2
32.5°	2304.0	2289.7	2289.7	2284.2	2278.7
35°	2187.3	2176.3	2170.7	2155.3	2161.9
37.5°	2070.5	2045.2	2043.0	2030.9	2030.9
40°	1936.2	1921.8	1914.1	1900.9	1898.7
42.5°	1808.4	1794.1	1780.9	1758.8	1754.4
45°	1671.8	1658.6	1641.0	1620.1	1621.2
47.5°	1536.4	1517.6	1501.1	1475.8	1472.5
50°	1396.5	1383.3	1359.1	1337.0	1335.9
52.5°	1265.4	1244.5	1222.5	1196.1	1196.1
55°	1136.6	1120.1	1094.7	1066.1	1062.8
57.5°	1013.2	997.8	969.2	948.3	942.7
60°	899.8	877.8	851.3	833.7	829.3
62.5°	786.4	766.5	746.7	729.1	728.0
65°	685.0	664.1	646.5	634.4	635.5
67.5°	593.6	576.0	556.2	552.9	554.0
70°	507.7	489.0	474.7	482.4	487.9
72.5°	426.2	416.3	406.4	417.4	425.1
75°	359.0	350.2	342.5	357.9	367.8
77.5°	297.4	290.8	289.7	302.9	311.7
80°	239.0	231.3	234.6	250.0	257.7
82.5°	181.7	176.2	177.3	196.0	201.5
85°	122.2	120.0	123.4	139.9	141.0
87.5°	65.0	65.0	67.2	77.1	73.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)