

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: P475589

Luminaire Tested: **24GR-LD5-85-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475589
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-85-F125-UNV-L830-CD1-U
Description: GR 2'X4' LED TROFFER w/ F125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8239.9 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

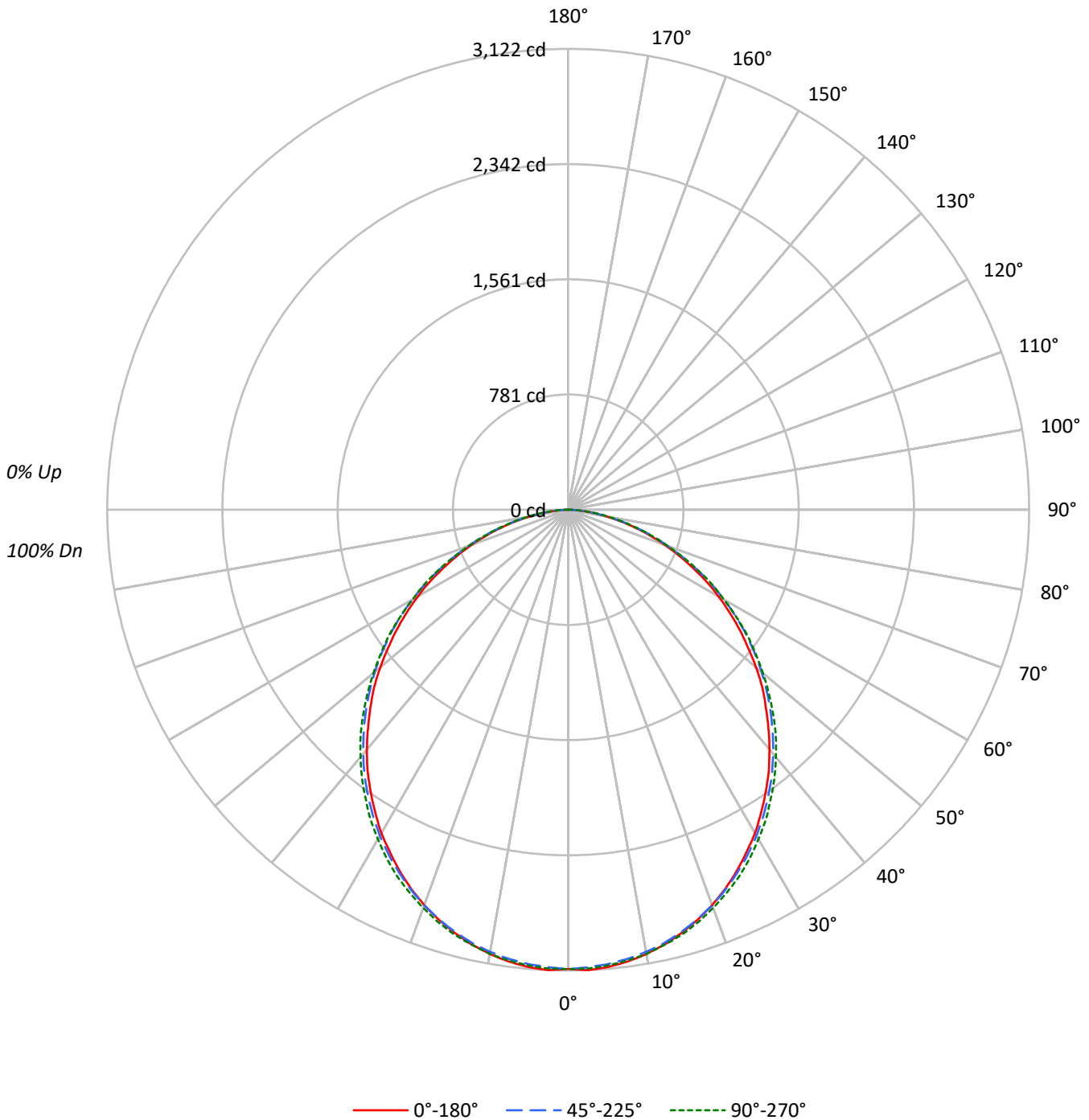
Input Watts (W): 59.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4187	4187	4187
5°	4200	4173	4185
10°	4176	4156	4173
15°	4134	4125	4150
20°	4081	4082	4110
25°	4010	4026	4069
30°	3932	3962	4003
35°	3831	3883	3928
40°	3726	3793	3843
45°	3602	3690	3737
50°	3477	3579	3603
55°	3327	3446	3471
60°	3168	3276	3279
65°	2959	3074	3090
70°	2742	2819	2810
75°	2436	2523	2530
80°	2038	2110	2190
85°	1528	1644	1701



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.0	3.6
10°-20°	836.5	10.2
20°-30°	1250.5	15.2
30°-40°	1477.3	17.9
40°-50°	1491.4	18.1
50°-60°	1301.5	15.8
60°-70°	948.8	11.5
70°-80°	511.7	6.2
80°-90°	128.1	1.6
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°	2381.0	28.9
0°-40°	3858.3	46.8
0°-60°	6651.2	80.7
0°-90°	8239.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8239.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3112	3112	3112	3112	3112	
5°	3110	3098	3090	3093	3099	295
15°	2968	2962	2961	2968	2980	837
25°	2701	2702	2712	2729	2740	1244
35°	2332	2339	2364	2387	2392	1459
45°	1893	1907	1939	1964	1964	1462
55°	1418	1435	1469	1475	1480	1267
65°	930	950	966	967	971	924
75°	468	473	485	487	487	498
85°	99	101	106	112	110	120
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3111.8	3111.8	3111.8	3111.8	3111.8
2.5°	3122.1	3110.9	3102.0	3103.9	3111.4
5°	3109.5	3098.3	3089.9	3092.7	3098.8
7.5°	3087.1	3076.8	3070.3	3073.1	3081.0
10°	3056.2	3047.8	3041.8	3046.0	3054.4
12.5°	3017.0	3008.6	3006.3	3012.3	3019.8
15°	2968.0	2961.9	2961.4	2968.4	2979.6
17.5°	2912.8	2906.8	2910.0	2919.4	2929.2
20°	2850.3	2844.6	2851.2	2863.8	2870.3
22.5°	2778.8	2774.1	2785.8	2798.9	2807.3
25°	2701.2	2701.7	2712.0	2729.3	2740.5
27.5°	2615.3	2618.6	2634.0	2650.8	2662.0
30°	2530.8	2528.0	2549.9	2568.1	2576.5
32.5°	2432.7	2434.1	2459.8	2478.4	2491.1
35°	2332.2	2338.8	2364.0	2386.9	2391.6
37.5°	2230.9	2235.5	2265.9	2288.3	2294.4
40°	2121.1	2129.5	2159.4	2180.4	2187.9
42.5°	2006.7	2017.4	2049.6	2071.6	2081.4
45°	1893.2	1906.7	1939.4	1963.7	1964.2
47.5°	1783.4	1793.2	1825.0	1846.5	1844.1
50°	1661.0	1675.5	1709.6	1722.7	1721.3
52.5°	1535.8	1557.8	1589.1	1599.4	1598.0
55°	1418.1	1435.4	1469.0	1474.6	1479.8
57.5°	1296.2	1311.2	1347.6	1349.9	1349.0
60°	1177.1	1190.6	1217.3	1223.8	1218.7
62.5°	1057.1	1070.6	1094.4	1101.0	1100.0
65°	929.5	949.6	965.5	967.4	970.6
67.5°	810.9	823.5	838.9	841.7	839.4
70°	696.9	707.7	716.5	718.4	714.2
72.5°	579.2	589.0	601.6	604.0	599.3
75°	468.5	473.2	485.3	487.2	486.7
77.5°	361.1	364.8	373.7	380.7	381.6
80°	263.0	264.4	272.3	277.5	282.6
82.5°	174.2	178.0	184.0	189.2	193.8
85°	99.0	101.4	106.5	111.6	110.2
87.5°	38.3	43.4	43.9	49.0	50.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)