

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: P475634

Luminaire Tested: **24GR-LD5-85-F125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475634
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-L850-CD1-U
Description: GR 2'X4' LED TROFFER w/ F125 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8709.5 lumens
Efficiency: N/A
Efficacy: 147.1 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

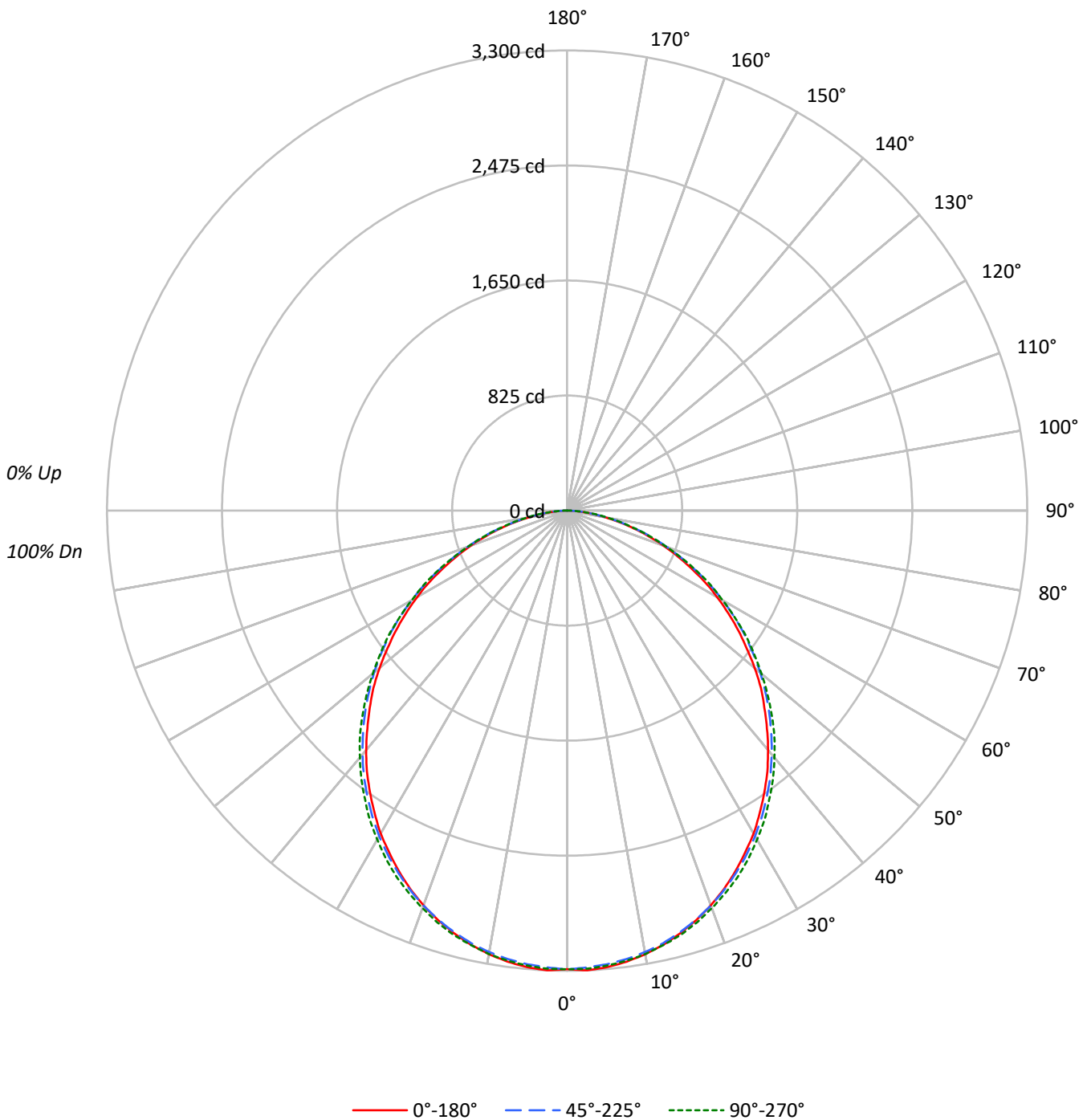
Input Watts (W): 59.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4426	4426	4426
5°	4439	4411	4424
10°	4414	4393	4411
15°	4370	4360	4387
20°	4314	4315	4344
25°	4239	4256	4300
30°	4156	4187	4231
35°	4049	4104	4152
40°	3938	4009	4062
45°	3808	3901	3950
50°	3675	3782	3808
55°	3516	3643	3669
60°	3348	3462	3466
65°	3128	3249	3266
70°	2898	2980	2970
75°	2574	2667	2675
80°	2154	2230	2314
85°	1616	1738	1798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.8	3.6
10°-20°	884.2	10.2
20°-30°	1321.7	15.2
30°-40°	1561.5	17.9
40°-50°	1576.4	18.1
50°-60°	1375.7	15.8
60°-70°	1002.9	11.5
70°-80°	540.9	6.2
80°-90°	135.4	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°	2516.7	28.9
0°-40°	4078.2	46.8
0°-60°	7030.3	80.7
0°-90°	8709.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8709.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3289	3289	3289	3289	3289	
5°	3287	3275	3266	3269	3275	312
15°	3137	3131	3130	3138	3150	885
25°	2855	2856	2867	2885	2897	1315
35°	2465	2472	2499	2523	2528	1542
45°	2001	2015	2050	2076	2076	1545
55°	1499	1517	1553	1559	1564	1340
65°	982	1004	1020	1022	1026	976
75°	495	500	513	515	514	526
85°	105	107	113	118	116	127
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3289.2	3289.2	3289.2	3289.2	3289.2
2.5°	3300.0	3288.2	3278.8	3280.8	3288.7
5°	3286.7	3274.9	3266.0	3268.9	3275.4
7.5°	3263.0	3252.2	3245.2	3248.2	3256.6
10°	3230.4	3221.5	3215.1	3219.6	3228.5
12.5°	3189.0	3180.1	3177.6	3184.0	3191.9
15°	3137.1	3130.7	3130.2	3137.6	3149.5
17.5°	3078.9	3072.4	3075.9	3085.8	3096.1
20°	3012.7	3006.8	3013.7	3027.0	3033.9
22.5°	2937.2	2932.2	2944.6	2958.4	2967.3
25°	2855.2	2855.7	2866.6	2884.8	2896.7
27.5°	2764.4	2767.8	2784.1	2801.9	2813.7
30°	2675.0	2672.0	2695.2	2714.5	2723.4
32.5°	2571.3	2572.8	2599.9	2619.7	2633.0
35°	2465.2	2472.1	2498.7	2522.9	2527.9
37.5°	2358.0	2363.0	2395.1	2418.8	2425.2
40°	2242.0	2250.9	2282.5	2304.7	2312.6
42.5°	2121.0	2132.4	2166.5	2189.7	2200.0
45°	2001.1	2015.4	2049.9	2075.6	2076.1
47.5°	1885.0	1895.4	1929.0	1951.7	1949.2
50°	1755.7	1771.0	1807.0	1820.9	1819.4
52.5°	1623.4	1646.6	1679.6	1690.5	1689.0
55°	1498.9	1517.2	1552.8	1558.7	1564.1
57.5°	1370.1	1385.9	1424.4	1426.9	1425.9
60°	1244.2	1258.5	1286.6	1293.6	1288.1
62.5°	1117.3	1131.6	1156.8	1163.7	1162.7
65°	982.5	1003.7	1020.5	1022.5	1026.0
67.5°	857.1	870.4	886.7	889.7	887.2
70°	736.6	748.0	757.4	759.3	754.9
72.5°	612.2	622.6	635.9	638.4	633.4
75°	495.2	500.1	513.0	515.0	514.5
77.5°	381.6	385.6	395.0	402.4	403.4
80°	278.0	279.4	287.8	293.3	298.7
82.5°	184.2	188.1	194.5	200.0	204.9
85°	104.7	107.1	112.6	118.0	116.5
87.5°	40.5	45.9	46.4	51.8	53.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)