

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: P475604

Luminaire Tested: **24GR-LD5-85-F125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475604
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-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ F125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8538.7 lumens
Efficiency: N/A
Efficacy: 144.2 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

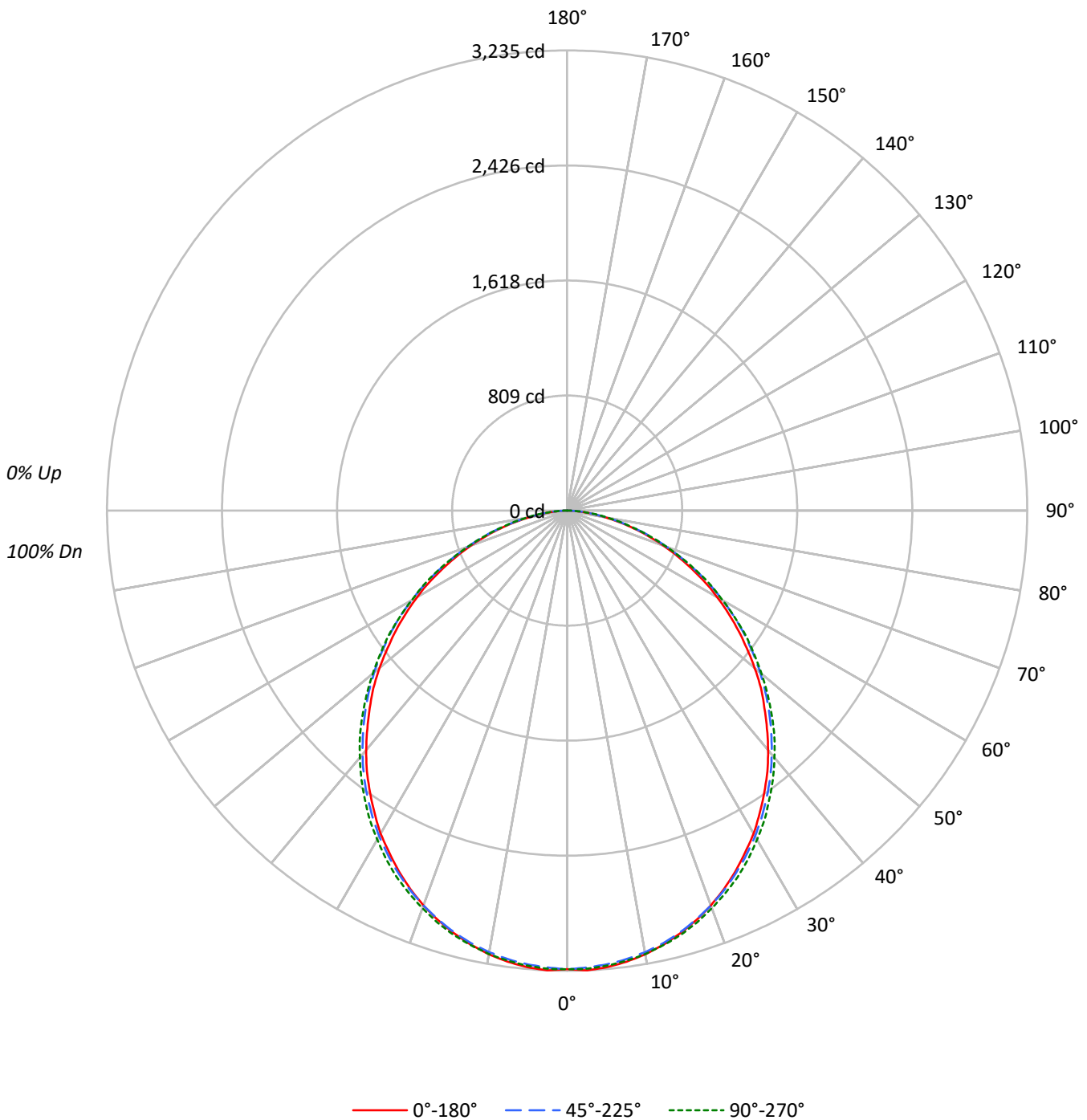
Input Watts (W): 59.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4339	4339	4339
5°	4352	4325	4337
10°	4327	4307	4324
15°	4284	4275	4301
20°	4229	4231	4259
25°	4156	4172	4216
30°	4074	4105	4148
35°	3970	4024	4071
40°	3861	3930	3982
45°	3733	3824	3873
50°	3603	3708	3734
55°	3447	3571	3597
60°	3282	3394	3398
65°	3067	3185	3202
70°	2841	2921	2912
75°	2524	2614	2622
80°	2111	2187	2269
85°	1584	1704	1763



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.7	3.6
10°-20°	866.9	10.2
20°-30°	1295.8	15.2
30°-40°	1530.9	17.9
40°-50°	1545.5	18.1
50°-60°	1348.7	15.8
60°-70°	983.2	11.5
70°-80°	530.3	6.2
80°-90°	132.7	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°	2467.3	28.9
0°-40°	3998.3	46.8
0°-60°	6892.5	80.7
0°-90°	8538.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8538.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3225	3225	3225	3225	3225	
5°	3222	3211	3202	3205	3211	306
15°	3076	3069	3069	3076	3088	867
25°	2799	2800	2810	2828	2840	1289
35°	2417	2424	2450	2474	2478	1512
45°	1962	1976	2010	2035	2035	1515
55°	1470	1488	1522	1528	1533	1313
65°	963	984	1000	1002	1006	957
75°	486	490	503	505	504	516
85°	103	105	110	116	114	125
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3224.7	3224.7	3224.7	3224.7	3224.7
2.5°	3235.3	3223.7	3214.5	3216.5	3224.2
5°	3222.3	3210.7	3201.9	3204.8	3211.1
7.5°	3199.0	3188.4	3181.6	3184.5	3192.7
10°	3167.1	3158.4	3152.1	3156.4	3165.2
12.5°	3126.4	3117.7	3115.3	3121.6	3129.3
15°	3075.6	3069.3	3068.8	3076.1	3087.7
17.5°	3018.5	3012.2	3015.6	3025.3	3035.4
20°	2953.6	2947.8	2954.6	2967.7	2974.4
22.5°	2879.6	2874.7	2886.8	2900.4	2909.1
25°	2799.2	2799.7	2810.4	2828.3	2839.9
27.5°	2710.2	2713.5	2729.5	2746.9	2758.6
30°	2622.5	2619.6	2642.4	2661.3	2670.0
32.5°	2520.9	2522.3	2549.0	2568.3	2581.4
35°	2416.8	2423.6	2449.7	2473.5	2478.3
37.5°	2311.8	2316.6	2348.1	2371.3	2377.6
40°	2198.0	2206.8	2237.7	2259.5	2267.3
42.5°	2079.4	2090.6	2124.0	2146.7	2156.9
45°	1961.8	1975.9	2009.7	2034.9	2035.4
47.5°	1848.1	1858.2	1891.2	1913.4	1911.0
50°	1721.3	1736.3	1771.6	1785.2	1783.7
52.5°	1591.5	1614.3	1646.7	1657.4	1655.9
55°	1469.6	1487.5	1522.3	1528.1	1533.4
57.5°	1343.2	1358.7	1396.5	1398.9	1397.9
60°	1219.8	1233.8	1261.4	1268.2	1262.9
62.5°	1095.4	1109.4	1134.1	1140.9	1139.9
65°	963.2	984.1	1000.5	1002.5	1005.8
67.5°	840.3	853.4	869.3	872.2	869.8
70°	722.2	733.3	742.5	744.5	740.1
72.5°	600.2	610.4	623.4	625.9	621.0
75°	485.5	490.3	502.9	504.9	504.4
77.5°	374.2	378.0	387.2	394.5	395.5
80°	272.5	274.0	282.2	287.5	292.8
82.5°	180.5	184.4	190.7	196.0	200.9
85°	102.6	105.0	110.4	115.7	114.2
87.5°	39.7	45.0	45.5	50.8	52.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)