

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: P475619

Luminaire Tested: **24GR-LD5-85-F125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475619  
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-L840-CD1-U  
Description: GR 2'X4' LED TROFFER w/ F125 LENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8701.0 lumens  
Efficiency: N/A  
Efficacy: 147.0 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

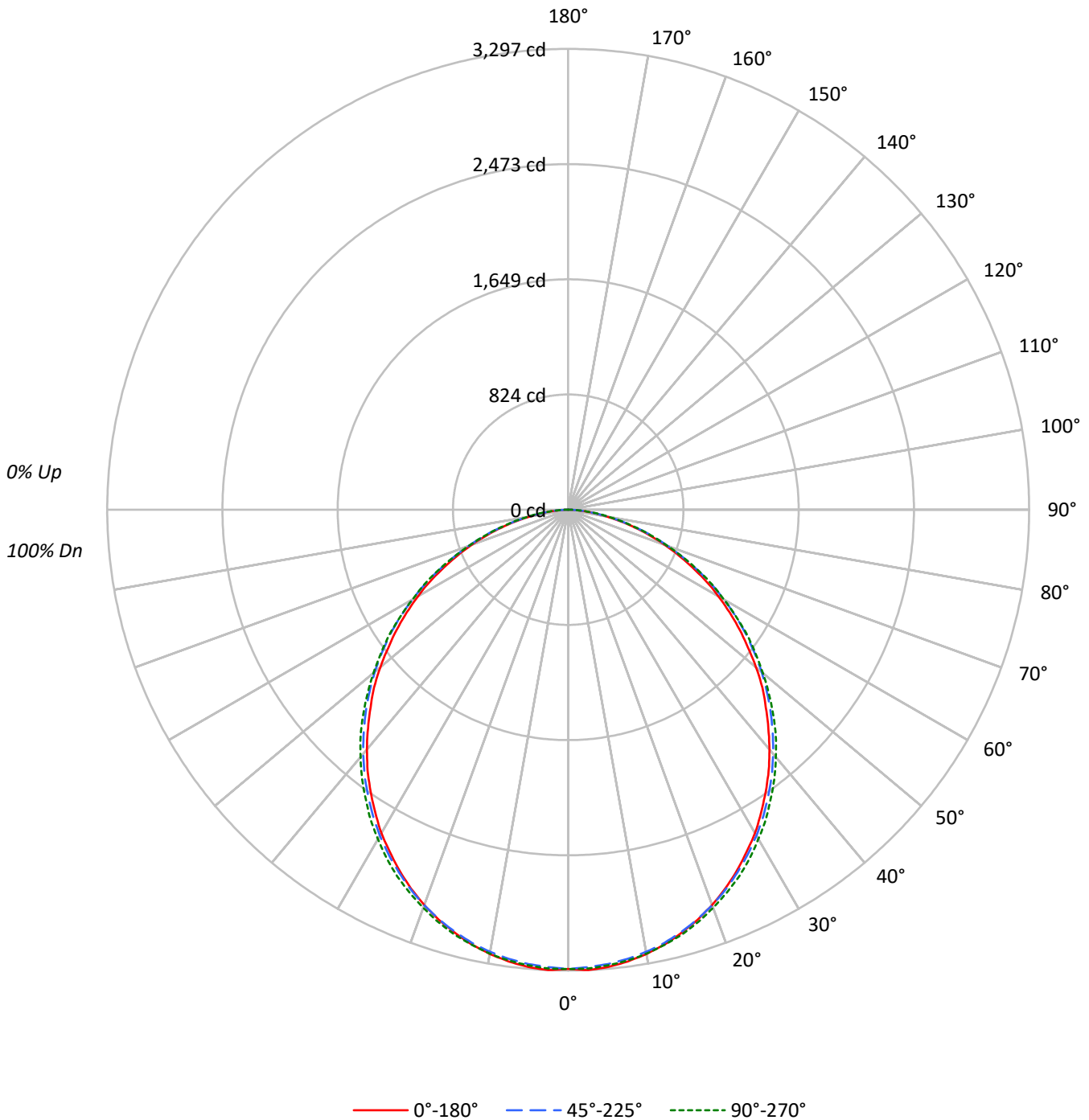
Input Watts (W): 59.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4421	4421	4421
5°	4435	4407	4420
10°	4409	4388	4407
15°	4366	4356	4383
20°	4309	4311	4340
25°	4235	4251	4296
30°	4152	4183	4227
35°	4045	4100	4148
40°	3934	4005	4058
45°	3804	3897	3947
50°	3671	3779	3805
55°	3513	3639	3666
60°	3345	3459	3463
65°	3125	3246	3263
70°	2895	2976	2967
75°	2572	2664	2672
80°	2152	2228	2312
85°	1615	1737	1797



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	310.5	3.6
10°-20°	883.3	10.2
20°-30°	1320.4	15.2
30°-40°	1560.0	17.9
40°-50°	1574.8	18.1
50°-60°	1374.4	15.8
60°-70°	1001.9	11.5
70°-80°	540.4	6.2
80°-90°	135.3	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°	2514.2	28.9
0°-40°	4074.2	46.8
0°-60°	7023.4	80.7
0°-90°	8701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8701.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3286	3286	3286	3286	3286	
5°	3284	3272	3263	3266	3272	312
15°	3134	3128	3127	3134	3146	884
25°	2852	2853	2864	2882	2894	1313
35°	2463	2470	2496	2520	2525	1541
45°	1999	2013	2048	2074	2074	1543
55°	1498	1516	1551	1557	1563	1338
65°	982	1003	1020	1022	1025	975
75°	495	500	512	514	514	526
85°	105	107	112	118	116	127
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3286.0	3286.0	3286.0	3286.0	3286.0
2.5°	3296.8	3285.0	3275.6	3277.6	3285.5
5°	3283.5	3271.7	3262.8	3265.7	3272.2
7.5°	3259.8	3249.0	3242.1	3245.0	3253.4
10°	3227.3	3218.4	3212.0	3216.4	3225.3
12.5°	3185.8	3177.0	3174.5	3180.9	3188.8
15°	3134.0	3127.6	3127.1	3134.5	3146.4
17.5°	3075.8	3069.4	3072.9	3082.7	3093.1
20°	3009.7	3003.8	3010.7	3024.1	3031.0
22.5°	2934.3	2929.4	2941.7	2955.5	2964.4
25°	2852.4	2852.9	2863.7	2882.0	2893.8
27.5°	2761.6	2765.1	2781.4	2799.1	2811.0
30°	2672.4	2669.4	2692.6	2711.8	2720.7
32.5°	2568.8	2570.3	2597.4	2617.1	2630.4
35°	2462.7	2469.7	2496.3	2520.5	2525.4
37.5°	2355.7	2360.6	2392.7	2416.4	2422.8
40°	2239.8	2248.7	2280.2	2302.4	2310.3
42.5°	2119.0	2130.3	2164.3	2187.5	2197.9
45°	1999.1	2013.4	2047.9	2073.6	2074.1
47.5°	1883.2	1893.5	1927.1	1949.8	1947.3
50°	1754.0	1769.3	1805.3	1819.1	1817.6
52.5°	1621.8	1645.0	1678.0	1688.9	1687.4
55°	1497.5	1515.7	1551.2	1557.2	1562.6
57.5°	1368.7	1384.5	1423.0	1425.5	1424.5
60°	1243.0	1257.3	1285.4	1292.3	1286.9
62.5°	1116.2	1130.5	1155.7	1162.6	1161.6
65°	981.5	1002.8	1019.5	1021.5	1025.0
67.5°	856.3	869.6	885.9	888.8	886.4
70°	735.9	747.3	756.6	758.6	754.2
72.5°	611.6	622.0	635.3	637.8	632.8
75°	494.7	499.7	512.5	514.4	514.0
77.5°	381.3	385.2	394.6	402.0	403.0
80°	277.7	279.2	287.6	293.0	298.4
82.5°	184.0	187.9	194.3	199.8	204.7
85°	104.6	107.0	112.5	117.9	116.4
87.5°	40.4	45.9	46.4	51.8	53.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)