

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: P475950

Luminaire Tested: **22GR-LD5-70-F125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475950
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-70-F125-UNV-L835-CD1-U
Description: GR 2'X2' LED TROFFER w/ F125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7057.9 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

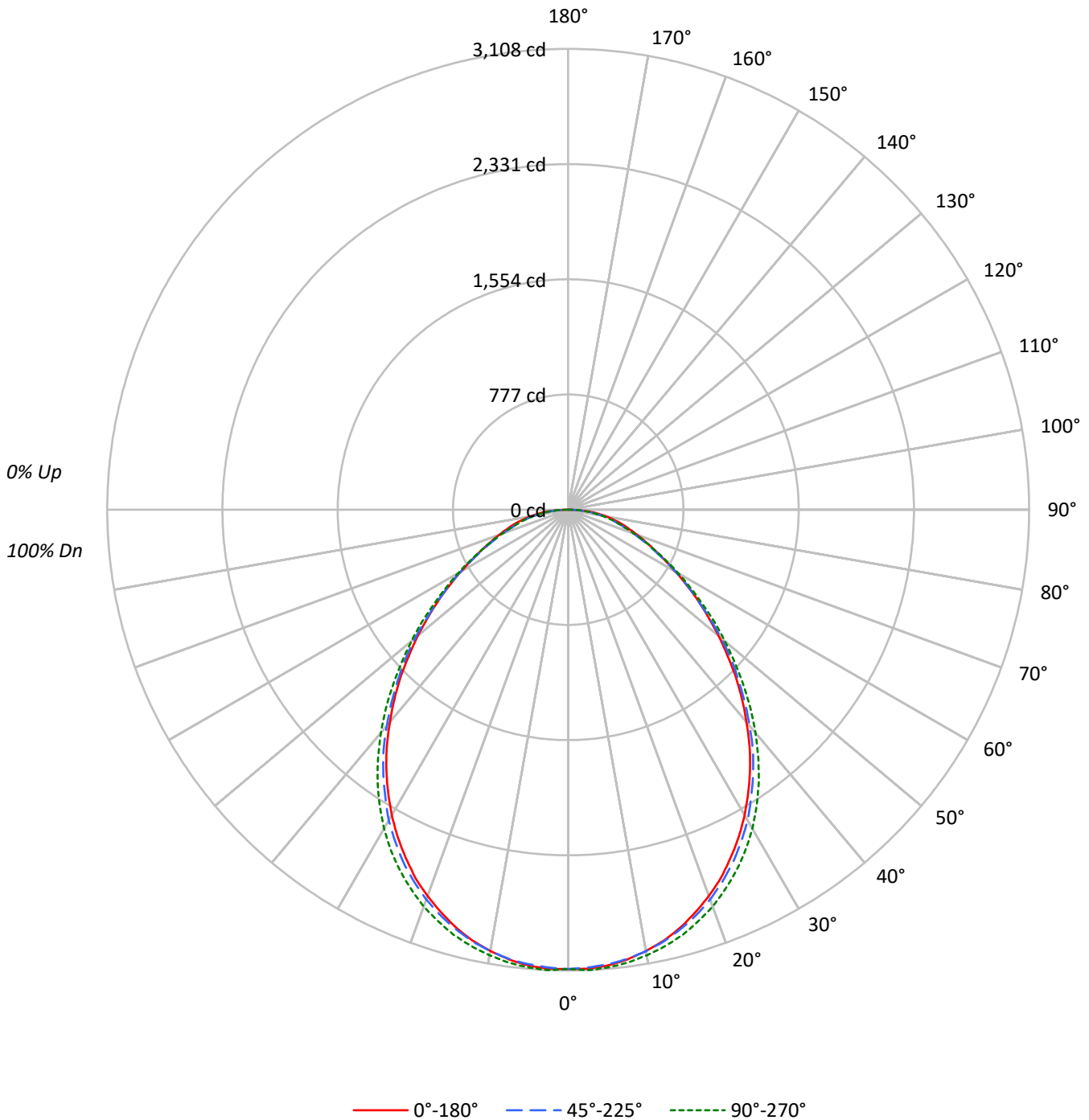
Input Watts (W): 52.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8337	8337	8337
5°	8334	8312	8369
10°	8256	8261	8337
15°	8131	8157	8277
20°	7940	8010	8155
25°	7693	7800	7970
30°	7388	7516	7714
35°	7025	7139	7360
40°	6570	6679	6898
45°	6083	6177	6357
50°	5539	5628	5773
55°	5003	5017	5163
60°	4486	4503	4610
65°	4089	4003	4097
70°	3890	3671	3736
75°	3915	3541	3559
80°	4062	3578	3552
85°	4455	3785	3585



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.7	4.1
10°-20°	826.9	11.7
20°-30°	1210.3	17.1
30°-40°	1360.8	19.3
40°-50°	1254.9	17.8
50°-60°	967.2	13.7
60°-70°	638.2	9.0
70°-80°	371.4	5.3
80°-90°	135.3	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°	2330.0	33.0
0°-40°	3690.8	52.3
0°-60°	5913.0	83.8
0°-90°	7057.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7057.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3098	3098	3098	3098	3098	
5°	3085	3079	3077	3092	3098	292
15°	2918	2918	2928	2954	2971	821
25°	2591	2604	2627	2663	2684	1192
35°	2139	2149	2173	2218	2240	1334
45°	1598	1600	1623	1656	1670	1231
55°	1066	1064	1069	1088	1100	957
65°	642	639	629	634	643	644
75°	376	360	341	334	342	397
85°	144	142	123	113	116	153
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3098.3	3098.3	3098.3	3098.3	3098.3
2.5°	3098.3	3091.8	3090.1	3101.8	3108.3
5°	3085.3	3078.8	3077.1	3091.8	3098.3
7.5°	3059.3	3054.1	3055.9	3072.3	3080.6
10°	3021.6	3019.9	3023.4	3041.1	3051.1
12.5°	2977.4	2975.7	2982.2	3001.7	3015.1
15°	2918.5	2918.5	2928.1	2954.5	2970.9
17.5°	2847.9	2852.7	2867.4	2893.8	2911.6
20°	2772.5	2777.7	2797.2	2826.7	2847.9
22.5°	2688.9	2695.8	2715.3	2751.3	2769.5
25°	2591.0	2604.0	2626.9	2662.9	2684.1
27.5°	2489.1	2503.9	2525.1	2569.7	2589.2
30°	2377.8	2387.8	2419.0	2459.7	2482.6
32.5°	2259.9	2269.9	2295.9	2345.3	2364.8
35°	2138.6	2148.6	2173.3	2217.5	2240.4
37.5°	2007.8	2016.0	2045.5	2079.7	2104.4
40°	1870.4	1881.7	1901.2	1942.4	1963.6
42.5°	1736.1	1740.9	1762.1	1803.3	1819.3
45°	1598.3	1600.1	1623.0	1655.5	1670.3
47.5°	1455.8	1459.3	1487.0	1506.5	1521.2
50°	1323.2	1324.9	1344.4	1362.6	1379.1
52.5°	1190.6	1190.6	1200.6	1220.1	1241.3
55°	1066.3	1064.5	1069.3	1087.5	1100.5
57.5°	948.4	946.7	953.2	964.5	974.4
60°	833.6	830.1	836.6	843.6	856.6
62.5°	732.2	735.3	727.0	737.0	747.0
65°	642.1	638.6	628.7	633.9	643.4
67.5°	565.0	560.2	543.8	546.8	558.5
70°	494.4	484.8	466.6	466.6	474.9
72.5°	430.7	420.7	397.7	399.5	402.9
75°	376.5	360.5	340.6	334.1	342.3
77.5°	317.6	304.6	286.4	281.6	285.1
80°	262.1	252.2	230.9	224.4	229.2
82.5°	208.0	199.7	175.0	170.3	172.0
85°	144.3	142.5	122.6	113.1	116.1
87.5°	77.1	78.4	63.7	57.2	60.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)