

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: P475937

Luminaire Tested: **22GR-LD5-60-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475937
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-60-F125-UNV-L830-CD1-U
Description: GR 2'X2' LED TROFFER w/ F125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5762.0 lumens
Efficiency: N/A
Efficacy: 129.8 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

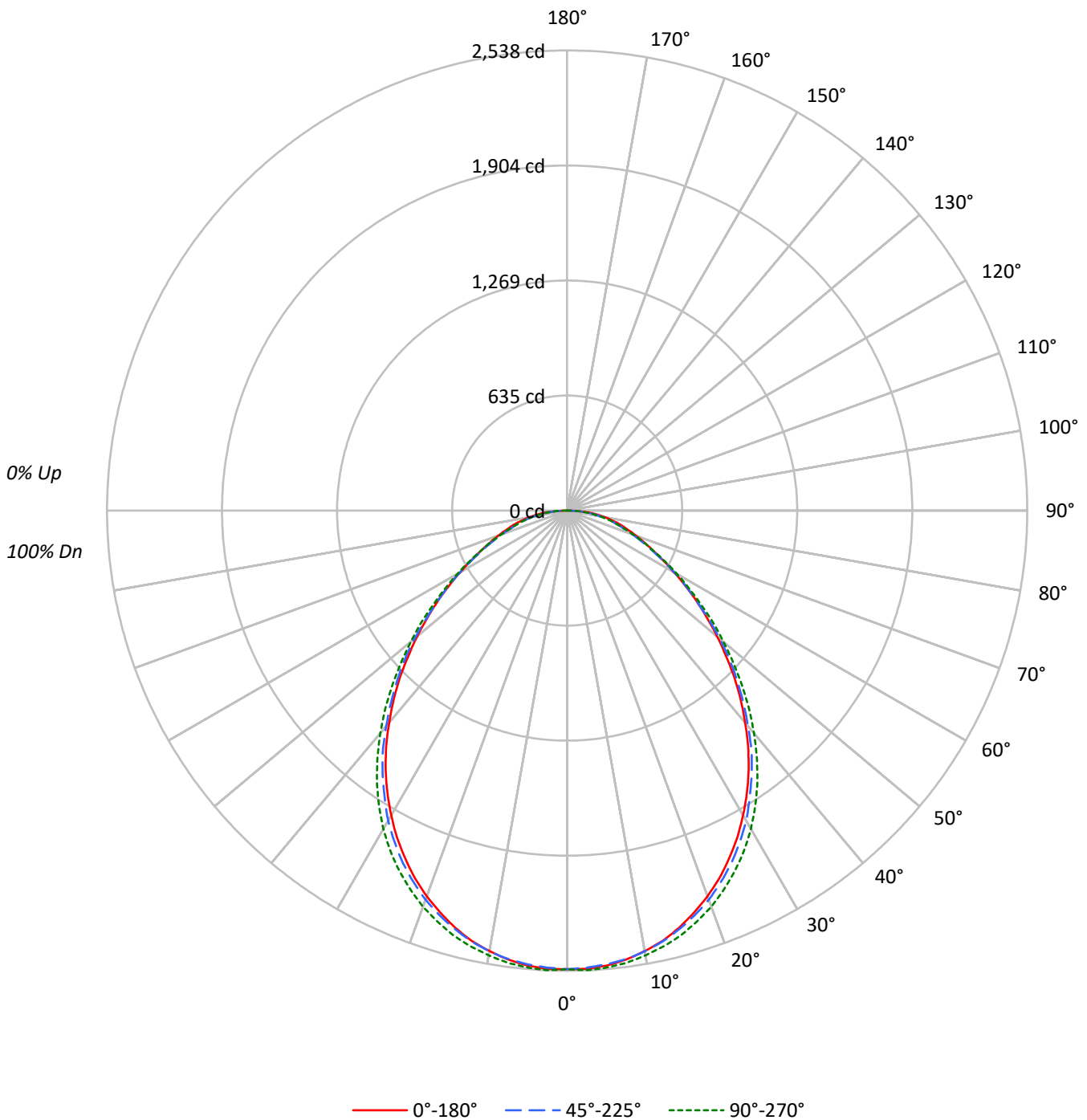
Input Watts (W): 44.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6807	6807	6807
5°	6804	6786	6833
10°	6741	6744	6806
15°	6638	6659	6757
20°	6482	6539	6658
25°	6280	6368	6506
30°	6032	6136	6298
35°	5735	5828	6009
40°	5364	5452	5631
45°	4966	5042	5189
50°	4522	4595	4713
55°	4084	4096	4215
60°	3662	3676	3764
65°	3338	3268	3345
70°	3175	2998	3050
75°	3196	2890	2905
80°	3316	2921	2899
85°	3637	3091	2927



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.0	4.1
10°-20°	675.1	11.7
20°-30°	988.1	17.1
30°-40°	1110.9	19.3
40°-50°	1024.5	17.8
50°-60°	789.7	13.7
60°-70°	521.0	9.0
70°-80°	303.2	5.3
80°-90°	110.4	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°	1902.2	33.0
0°-40°	3013.1	52.3
0°-60°	4827.3	83.8
0°-90°	5762.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5762.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2529	2529	2529	2529	2529	
5°	2519	2514	2512	2524	2529	239
15°	2383	2383	2390	2412	2425	670
25°	2115	2126	2145	2174	2191	973
35°	1746	1754	1774	1810	1829	1089
45°	1305	1306	1325	1352	1364	1005
55°	870	869	873	888	898	781
65°	524	521	513	518	525	526
75°	307	294	278	273	279	324
85°	118	116	100	92	95	125
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2529.4	2529.4	2529.4	2529.4	2529.4
2.5°	2529.4	2524.1	2522.7	2532.2	2537.6
5°	2518.8	2513.5	2512.1	2524.1	2529.4
7.5°	2497.6	2493.3	2494.8	2508.2	2514.9
10°	2466.8	2465.4	2468.2	2482.7	2490.9
12.5°	2430.7	2429.3	2434.6	2450.5	2461.5
15°	2382.6	2382.6	2390.4	2412.0	2425.4
17.5°	2325.0	2328.9	2340.9	2362.5	2377.0
20°	2263.4	2267.7	2283.6	2307.6	2325.0
22.5°	2195.2	2200.8	2216.7	2246.1	2260.9
25°	2115.2	2125.8	2144.6	2173.9	2191.3
27.5°	2032.1	2044.1	2061.5	2097.9	2113.8
30°	1941.2	1949.3	1974.8	2008.0	2026.8
32.5°	1845.0	1853.1	1874.3	1914.7	1930.6
35°	1745.9	1754.1	1774.2	1810.3	1829.1
37.5°	1639.1	1645.8	1669.9	1697.8	1718.0
40°	1527.0	1536.2	1552.1	1585.7	1603.0
42.5°	1417.3	1421.2	1438.6	1472.2	1485.2
45°	1304.9	1306.3	1325.0	1351.5	1363.6
47.5°	1188.5	1191.3	1213.9	1229.9	1241.9
50°	1080.2	1081.7	1097.6	1112.4	1125.9
52.5°	972.0	972.0	980.1	996.1	1013.4
55°	870.5	869.1	873.0	887.8	898.4
57.5°	774.3	772.9	778.2	787.4	795.5
60°	680.5	677.7	683.0	688.7	699.3
62.5°	597.8	600.3	593.5	601.7	609.8
65°	524.2	521.4	513.2	517.5	525.3
67.5°	461.2	457.4	443.9	446.4	455.9
70°	403.6	395.8	381.0	381.0	387.7
72.5°	351.6	343.5	324.7	326.1	329.0
75°	307.4	294.3	278.0	272.7	279.4
77.5°	259.3	248.7	233.8	229.9	232.7
80°	214.0	205.9	188.5	183.2	187.1
82.5°	169.8	163.1	142.9	139.0	140.4
85°	117.8	116.4	100.1	92.3	94.8
87.5°	63.0	64.0	52.0	46.7	49.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)