

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: P475961

Luminaire Tested: **22GR-LD5-60-F125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475961
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-L840-CD1-U
Description: GR 2'X2' LED TROFFER w/ F125 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6084.4 lumens
Efficiency: N/A
Efficacy: 137.0 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

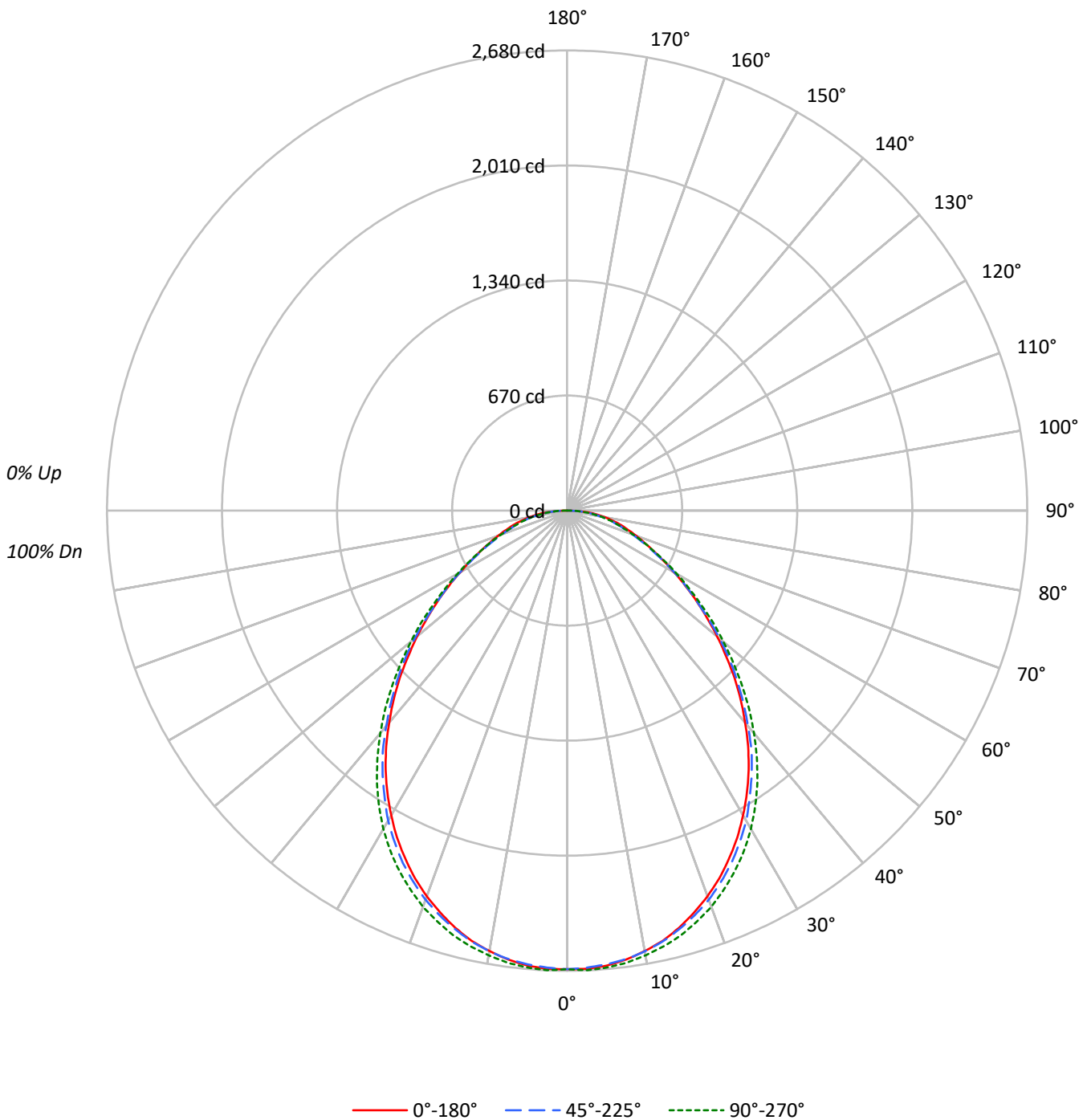
Input Watts (W): 44.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					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°	7188	7188	7188
5°	7185	7166	7215
10°	7118	7122	7187
15°	7009	7032	7135
20°	6844	6905	7031
25°	6632	6724	6870
30°	6369	6480	6650
35°	6056	6155	6345
40°	5664	5758	5946
45°	5244	5325	5480
50°	4775	4852	4977
55°	4312	4325	4451
60°	3867	3881	3974
65°	3524	3451	3532
70°	3353	3165	3221
75°	3375	3053	3068
80°	3502	3085	3062
85°	3841	3264	3091



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.4	4.1
10°-20°	712.9	11.7
20°-30°	1043.4	17.1
30°-40°	1173.1	19.3
40°-50°	1081.9	17.8
50°-60°	833.8	13.7
60°-70°	550.2	9.0
70°-80°	320.2	5.3
80°-90°	116.6	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°	2008.6	33.0
0°-40°	3181.7	52.3
0°-60°	5097.4	83.8
0°-90°	6084.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6084.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2671	2671	2671	2671	2671	
5°	2660	2654	2653	2665	2671	252
15°	2516	2516	2524	2547	2561	708
25°	2234	2245	2265	2296	2314	1027
35°	1844	1852	1874	1912	1931	1150
45°	1378	1379	1399	1427	1440	1061
55°	919	918	922	938	949	825
65°	554	551	542	546	555	555
75°	325	311	294	288	295	342
85°	124	123	106	98	100	132
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2671.0	2671.0	2671.0	2671.0	2671.0
2.5°	2671.0	2665.4	2663.9	2673.9	2679.5
5°	2659.8	2654.1	2652.7	2665.4	2671.0
7.5°	2637.3	2632.9	2634.4	2648.5	2655.6
10°	2604.8	2603.4	2606.3	2621.7	2630.2
12.5°	2566.7	2565.3	2570.9	2587.7	2599.2
15°	2516.0	2516.0	2524.2	2547.0	2561.1
17.5°	2455.1	2459.2	2471.9	2494.7	2510.0
20°	2390.1	2394.6	2411.4	2436.8	2455.1
22.5°	2318.0	2324.0	2340.8	2371.8	2387.5
25°	2233.6	2244.8	2264.6	2295.6	2313.9
27.5°	2145.8	2158.5	2176.8	2215.3	2232.1
30°	2049.8	2058.4	2085.3	2120.4	2140.2
32.5°	1948.2	1956.8	1979.2	2021.8	2038.6
35°	1843.6	1852.2	1873.5	1911.6	1931.4
37.5°	1730.8	1737.9	1763.3	1792.8	1814.1
40°	1612.4	1622.1	1639.0	1674.4	1692.7
42.5°	1496.6	1500.8	1519.1	1554.5	1568.4
45°	1377.9	1379.4	1399.2	1427.2	1439.9
47.5°	1255.0	1258.0	1281.9	1298.7	1311.4
50°	1140.7	1142.2	1159.0	1174.7	1188.9
52.5°	1026.4	1026.4	1035.0	1051.8	1070.1
55°	919.2	917.7	921.8	937.5	948.7
57.5°	817.6	816.1	821.7	831.4	840.0
60°	718.6	715.6	721.2	727.2	738.4
62.5°	631.2	633.8	626.7	635.3	643.9
65°	553.5	550.6	542.0	546.4	554.7
67.5°	487.1	482.9	468.8	471.4	481.5
70°	426.2	418.0	402.3	402.3	409.4
72.5°	371.3	362.7	342.9	344.4	347.4
75°	324.6	310.8	293.6	288.0	295.1
77.5°	273.8	262.6	246.9	242.8	245.8
80°	226.0	217.4	199.1	193.5	197.6
82.5°	179.3	172.2	150.9	146.8	148.3
85°	124.4	122.9	105.7	97.5	100.1
87.5°	66.5	67.6	54.9	49.3	52.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)