

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: P476057

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

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476057
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-60-A-UNV-L840-CD1-U
Description: GR 2'X2' LED TROFFER w/ A LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5901.9 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

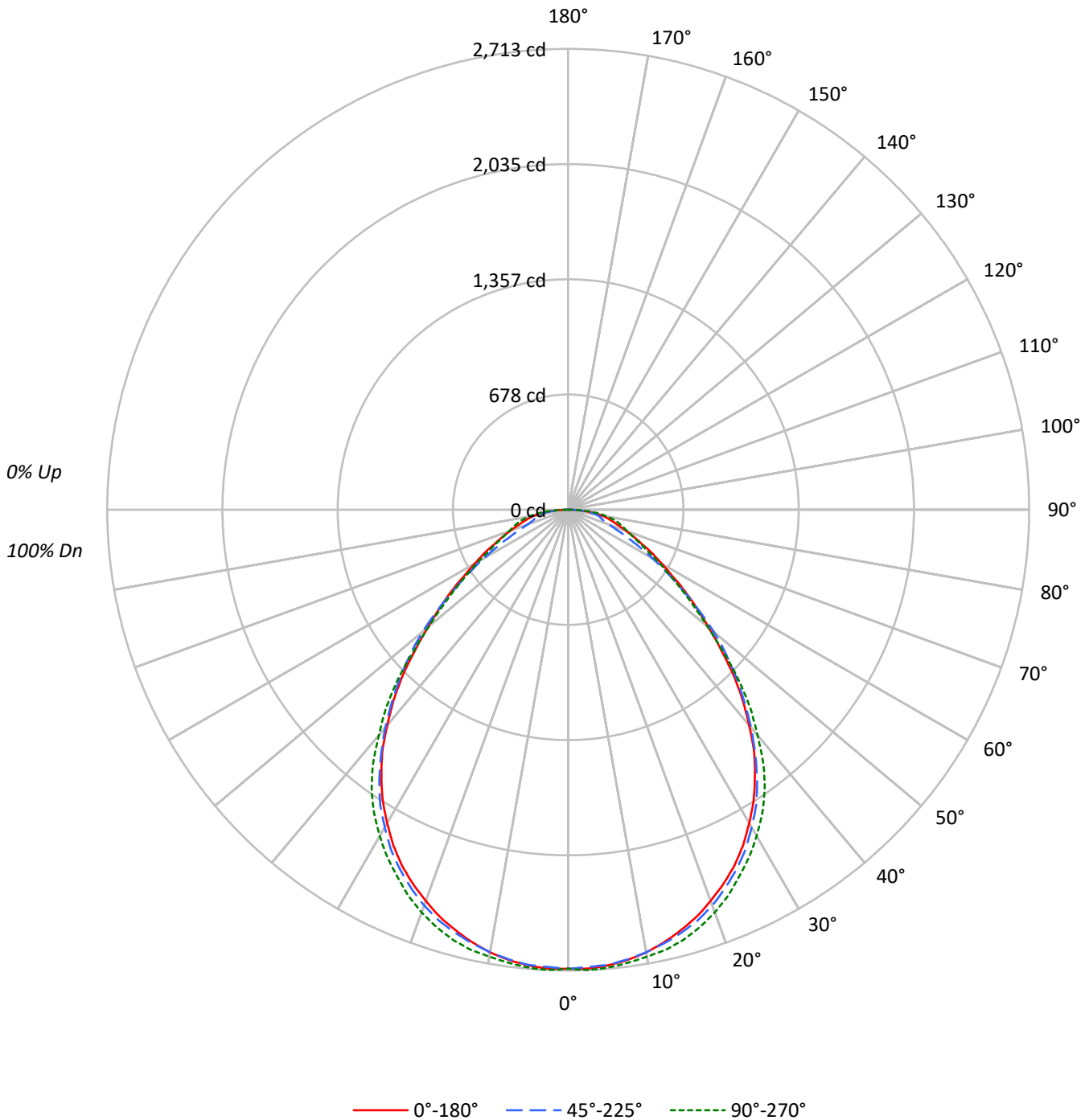
Input Watts (W): 44.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7273	7273	7273
5°	7275	7264	7309
10°	7231	7228	7299
15°	7140	7178	7304
20°	7017	7099	7225
25°	6867	6945	7071
30°	6618	6709	6892
35°	6294	6365	6623
40°	5819	5882	6088
45°	5227	5321	5405
50°	4519	4680	4473
55°	3944	3840	3788
60°	3415	3075	3282
65°	3052	2413	2948
70°	2831	1998	2908
75°	2826	2113	3227
80°	3132	2658	3639
85°	3267	2884	4119



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.8	4.3
10°-20°	728.5	12.3
20°-30°	1077.4	18.3
30°-40°	1215.8	20.6
40°-50°	1071.8	18.2
50°-60°	735.2	12.5
60°-70°	433.9	7.4
70°-80°	270.7	4.6
80°-90°	112.9	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°	2061.6	34.9
0°-40°	3277.4	55.5
0°-60°	5084.4	86.1
0°-90°	5901.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5901.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2703	2703	2703	2703	2703	
5°	2693	2688	2689	2699	2706	256
15°	2563	2565	2577	2608	2622	722
25°	2313	2321	2339	2369	2382	1062
35°	1916	1932	1938	1985	2016	1194
45°	1373	1380	1398	1406	1420	1055
55°	841	820	818	791	808	754
65°	479	422	379	438	463	483
75°	272	245	203	284	310	292
85°	106	99	93	122	133	114
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2702.7	2702.7	2702.7	2702.7	2702.7
2.5°	2704.2	2697.3	2694.7	2705.7	2712.6
5°	2693.3	2687.8	2689.3	2698.7	2705.7
7.5°	2674.0	2670.0	2670.0	2683.5	2690.4
10°	2646.4	2645.3	2645.3	2661.7	2671.1
12.5°	2608.3	2609.3	2614.8	2637.0	2653.3
15°	2562.8	2565.4	2576.6	2608.3	2621.7
17.5°	2513.4	2513.4	2535.2	2559.9	2576.6
20°	2450.2	2454.2	2478.9	2506.5	2522.9
22.5°	2385.5	2392.4	2413.1	2444.7	2459.6
25°	2312.8	2321.2	2339.0	2369.1	2381.5
27.5°	2227.8	2238.7	2257.9	2279.7	2305.9
30°	2130.0	2146.7	2159.1	2189.2	2217.9
32.5°	2031.1	2046.4	2060.2	2091.8	2124.5
35°	1915.9	1932.3	1937.7	1984.6	2016.2
37.5°	1797.8	1804.7	1807.3	1854.2	1888.3
40°	1656.5	1669.9	1674.3	1711.3	1733.1
42.5°	1520.2	1526.0	1534.0	1561.6	1587.8
45°	1373.4	1380.3	1398.1	1406.4	1420.2
47.5°	1219.6	1240.3	1260.7	1234.5	1236.0
50°	1079.4	1096.1	1117.9	1068.5	1068.5
52.5°	954.3	962.7	964.1	923.1	931.1
55°	840.6	819.9	818.4	791.2	807.5
57.5°	726.5	699.2	689.4	681.0	700.3
60°	634.5	585.1	571.3	583.7	609.8
62.5°	558.9	495.7	469.5	501.2	524.8
65°	479.3	421.6	379.0	438.3	463.0
67.5°	417.6	362.7	307.8	391.4	409.2
70°	359.8	317.3	254.0	355.8	369.6
72.5°	313.3	280.2	219.9	321.3	338.0
75°	271.8	244.6	203.2	284.2	310.4
77.5°	239.1	208.6	189.7	245.7	277.3
80°	202.1	171.5	171.5	206.1	234.8
82.5°	159.2	134.5	138.8	167.5	188.3
85°	105.8	98.8	93.4	122.1	133.4
87.5°	53.4	54.9	49.4	63.2	64.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)