

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: P476070

Luminaire Tested: **22GR-LD5-70-A-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476070
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-70-A-UNV-L850-CD1-U
Description: GR 2'X2' LED TROFFER w/ A LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6983.2 lumens
Efficiency: N/A
Efficacy: 133.5 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

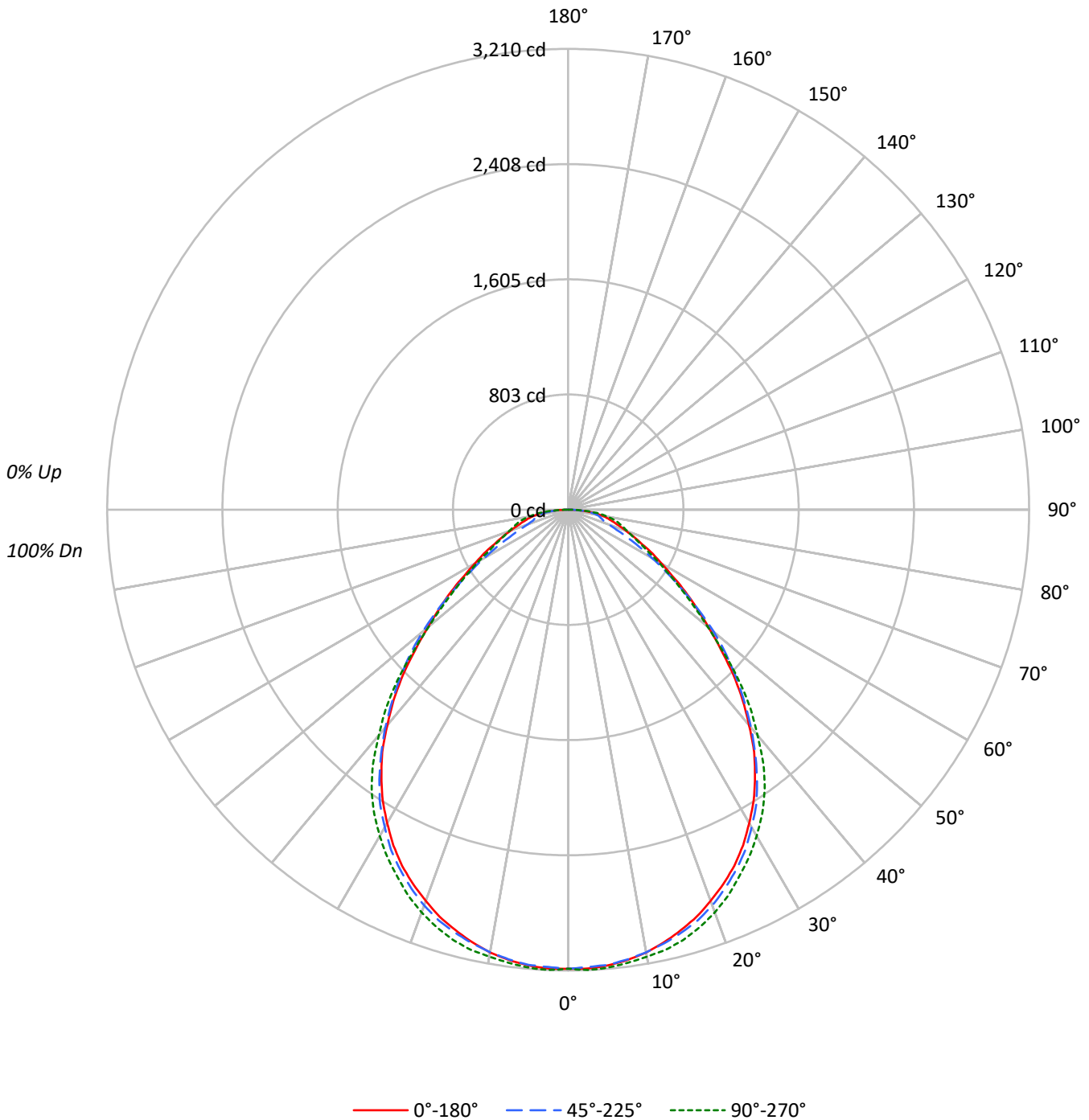
Input Watts (W): 52.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	8605	8605	8605
5°	8608	8595	8648
10°	8556	8553	8636
15°	8448	8493	8642
20°	8302	8399	8548
25°	8125	8217	8367
30°	7831	7938	8154
35°	7447	7532	7837
40°	6885	6959	7204
45°	6184	6295	6395
50°	5346	5537	5292
55°	4666	4543	4483
60°	4041	3638	3883
65°	3612	2856	3488
70°	3349	2365	3441
75°	3344	2499	3818
80°	3705	3146	4305
85°	3863	3412	4872



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.6	4.3
10°-20°	861.9	12.3
20°-30°	1274.8	18.3
30°-40°	1438.6	20.6
40°-50°	1268.1	18.2
50°-60°	869.9	12.5
60°-70°	513.3	7.4
70°-80°	320.3	4.6
80°-90°	133.5	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°	2439.4	34.9
0°-40°	3877.9	55.5
0°-60°	6015.9	86.1
0°-90°	6983.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6983.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3198	3198	3198	3198	3198	
5°	3187	3180	3182	3193	3201	302
15°	3032	3035	3049	3086	3102	855
25°	2736	2746	2768	2803	2818	1257
35°	2267	2286	2293	2348	2386	1413
45°	1625	1633	1654	1664	1680	1248
55°	995	970	968	936	956	892
65°	567	499	448	519	548	571
75°	322	289	240	336	367	345
85°	125	117	110	144	158	135
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3197.9	3197.9	3197.9	3197.9	3197.9
2.5°	3199.6	3191.5	3188.4	3201.3	3209.5
5°	3186.7	3180.3	3182.0	3193.2	3201.3
7.5°	3163.9	3159.2	3159.2	3175.1	3183.3
10°	3131.3	3130.0	3130.0	3149.3	3160.5
12.5°	3086.1	3087.4	3093.8	3120.1	3139.4
15°	3032.4	3035.4	3048.7	3086.1	3102.0
17.5°	2973.9	2973.9	2999.7	3028.9	3048.7
20°	2899.1	2903.8	2933.0	2965.7	2985.1
22.5°	2822.5	2830.7	2855.2	2892.6	2910.2
25°	2736.5	2746.4	2767.5	2803.2	2817.8
27.5°	2635.9	2648.8	2671.6	2697.4	2728.3
30°	2520.2	2540.0	2554.6	2590.3	2624.3
32.5°	2403.3	2421.3	2437.7	2475.1	2513.8
35°	2267.0	2286.3	2292.8	2348.2	2385.6
37.5°	2127.2	2135.4	2138.4	2193.9	2234.3
40°	1959.9	1975.8	1981.0	2024.9	2050.7
42.5°	1798.7	1805.6	1815.0	1847.7	1878.7
45°	1625.0	1633.1	1654.2	1664.1	1680.4
47.5°	1443.1	1467.6	1491.7	1460.7	1462.4
50°	1277.1	1296.9	1322.7	1264.2	1264.2
52.5°	1129.2	1139.1	1140.8	1092.2	1101.7
55°	994.6	970.1	968.4	936.1	955.5
57.5°	859.6	827.3	815.7	805.8	828.6
60°	750.8	692.3	676.0	690.6	721.5
62.5°	661.3	586.5	555.6	593.0	620.9
65°	567.2	498.8	448.5	518.6	547.8
67.5°	494.1	429.1	364.2	463.1	484.2
70°	425.7	375.4	300.6	421.0	437.3
72.5°	370.7	331.5	260.1	380.1	399.9
75°	321.6	289.4	240.4	336.3	367.2
77.5°	282.9	246.8	224.5	290.7	328.1
80°	239.1	203.0	203.0	243.8	277.8
82.5°	188.3	159.1	164.3	198.2	222.7
85°	125.1	117.0	110.5	144.5	157.8
87.5°	63.2	64.9	58.5	74.8	76.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)