

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: P476034

Luminaire Tested: **22GR-LD5-70-A-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476034
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-L830-CD1-U
Description: GR 2'X2' LED TROFFER w/ A LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6606.6 lumens
Efficiency: N/A
Efficacy: 126.3 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

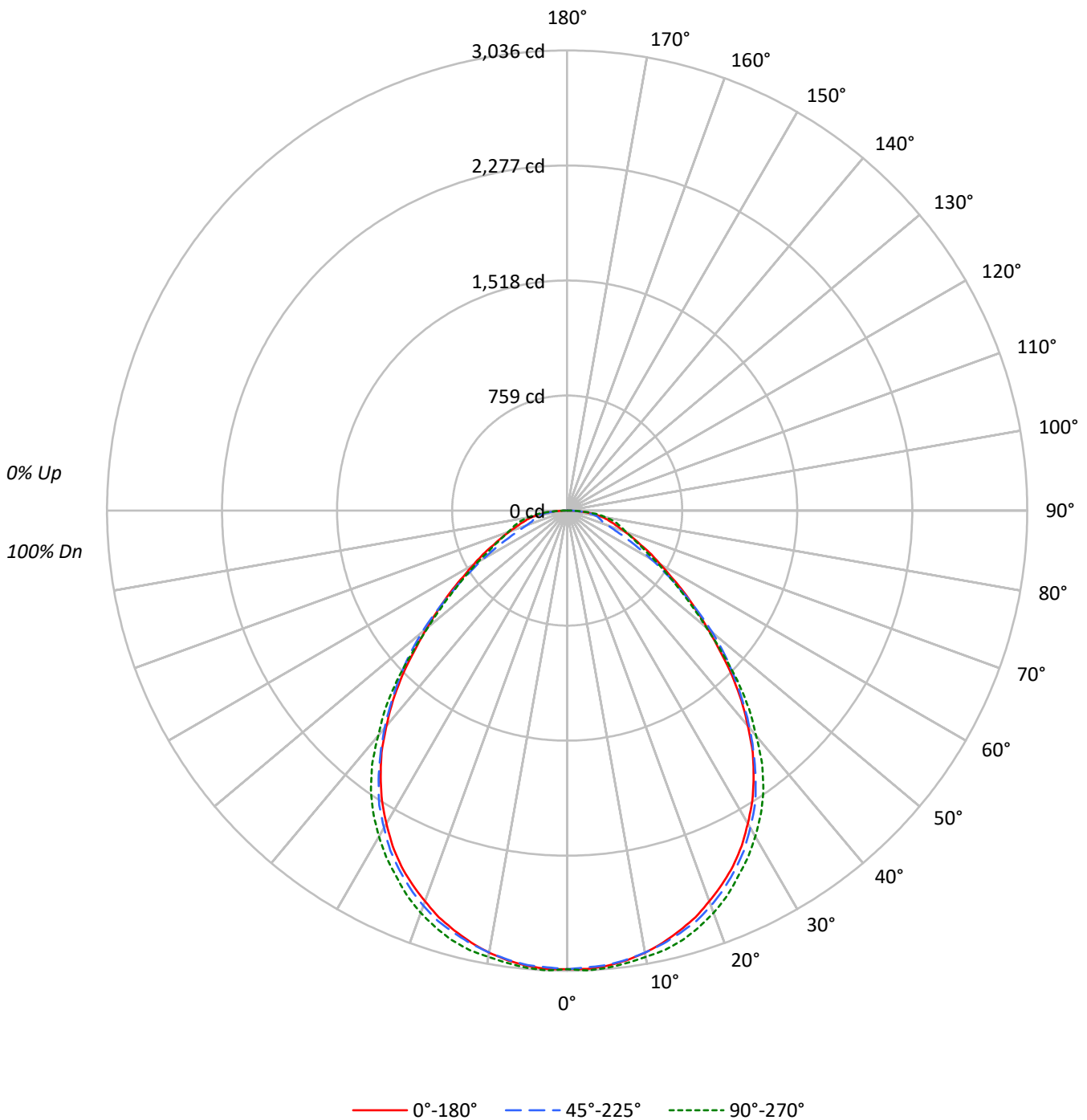
Input Watts (W): 52.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	8142	8142	8142
5°	8144	8132	8181
10°	8095	8091	8170
15°	7992	8035	8176
20°	7854	7946	8087
25°	7687	7774	7915
30°	7409	7510	7715
35°	7046	7126	7414
40°	6514	6584	6815
45°	5850	5956	6050
50°	5058	5239	5007
55°	4415	4298	4241
60°	3823	3442	3674
65°	3417	2702	3300
70°	3168	2238	3255
75°	3164	2364	3612
80°	3505	2975	4073
85°	3656	3230	4610



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.3	4.3
10°-20°	815.5	12.3
20°-30°	1206.0	18.3
30°-40°	1361.0	20.6
40°-50°	1199.7	18.2
50°-60°	823.0	12.5
60°-70°	485.7	7.4
70°-80°	303.0	4.6
80°-90°	126.3	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°	2307.8	34.9
0°-40°	3668.8	55.5
0°-60°	5691.5	86.1
0°-90°	6606.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6606.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3026	3026	3026	3026	3026	
5°	3015	3009	3010	3021	3029	286
15°	2869	2872	2884	2920	2935	809
25°	2589	2598	2618	2652	2666	1189
35°	2145	2163	2169	2222	2257	1336
45°	1537	1545	1565	1574	1590	1181
55°	941	918	916	886	904	844
65°	537	472	424	491	518	541
75°	304	274	227	318	347	327
85°	118	111	105	137	149	128
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3025.5	3025.5	3025.5	3025.5	3025.5
2.5°	3027.1	3019.4	3016.5	3028.7	3036.5
5°	3014.9	3008.8	3010.4	3021.0	3028.7
7.5°	2993.3	2988.9	2988.9	3003.9	3011.6
10°	2962.4	2961.2	2961.2	2979.5	2990.1
12.5°	2919.7	2920.9	2927.0	2951.8	2970.1
15°	2868.8	2871.7	2884.3	2919.7	2934.7
17.5°	2813.5	2813.5	2837.9	2865.6	2884.3
20°	2742.7	2747.2	2774.9	2805.8	2824.1
22.5°	2670.3	2678.0	2701.2	2736.6	2753.3
25°	2589.0	2598.3	2618.2	2652.0	2665.8
27.5°	2493.8	2506.0	2527.5	2551.9	2581.2
30°	2384.3	2403.0	2416.9	2450.6	2482.8
32.5°	2273.7	2290.8	2306.2	2341.6	2378.2
35°	2144.7	2163.0	2169.1	2221.6	2257.0
37.5°	2012.5	2020.2	2023.1	2075.6	2113.8
40°	1854.3	1869.3	1874.2	1915.7	1940.1
42.5°	1701.7	1708.2	1717.2	1748.1	1777.4
45°	1537.3	1545.1	1565.0	1574.4	1589.8
47.5°	1365.3	1388.5	1411.2	1381.9	1383.6
50°	1208.2	1226.9	1251.4	1196.0	1196.0
52.5°	1068.3	1077.6	1079.3	1033.3	1042.3
55°	941.0	917.8	916.1	885.6	903.9
57.5°	813.2	782.7	771.7	762.4	783.9
60°	710.3	655.0	639.5	653.3	682.6
62.5°	625.7	554.9	525.6	561.0	587.4
65°	536.6	471.9	424.3	490.6	518.3
67.5°	467.4	406.0	344.6	438.1	458.1
70°	402.7	355.1	284.4	398.3	413.7
72.5°	350.7	313.7	246.1	359.6	378.3
75°	304.3	273.8	227.4	318.1	347.4
77.5°	267.7	233.5	212.4	275.0	310.4
80°	226.2	192.0	192.0	230.7	262.8
82.5°	178.2	150.5	155.4	187.5	210.7
85°	118.4	110.7	104.6	136.7	149.3
87.5°	59.8	61.4	55.3	70.8	72.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)