

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: P476046

Luminaire Tested: **22GR-LD5-70-A-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476046
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-L835-CD1-U
Description: GR 2'X2' LED TROFFER w/ A LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6846.2 lumens
Efficiency: N/A
Efficacy: 130.9 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

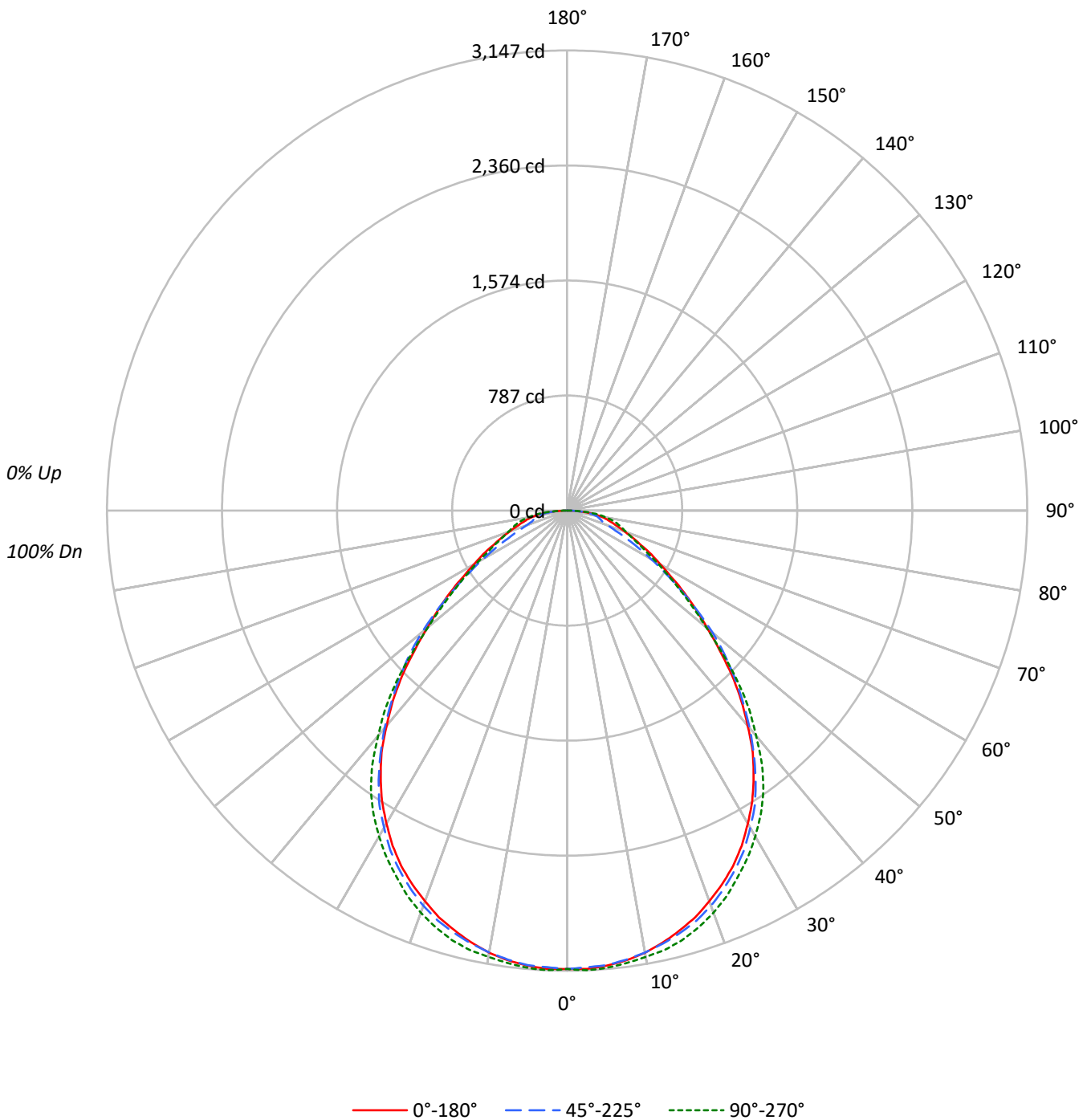
Input Watts (W): 52.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8437	8437	8437
5°	8439	8427	8478
10°	8388	8385	8467
15°	8282	8327	8472
20°	8139	8235	8381
25°	7966	8056	8202
30°	7677	7782	7994
35°	7301	7384	7683
40°	6750	6823	7063
45°	6063	6172	6270
50°	5242	5429	5189
55°	4575	4454	4395
60°	3962	3567	3807
65°	3540	2800	3420
70°	3284	2319	3373
75°	3278	2451	3743
80°	3632	3084	4220
85°	3788	3344	4776



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.7	4.3
10°-20°	845.0	12.3
20°-30°	1249.8	18.3
30°-40°	1410.3	20.6
40°-50°	1243.3	18.2
50°-60°	852.8	12.5
60°-70°	503.3	7.4
70°-80°	314.0	4.6
80°-90°	130.9	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°	2391.5	34.9
0°-40°	3801.9	55.5
0°-60°	5898.0	86.1
0°-90°	6846.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6846.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3135	3135	3135	3135	3135	
5°	3124	3118	3120	3131	3139	296
15°	2973	2976	2989	3026	3041	838
25°	2683	2693	2713	2748	2762	1232
35°	2222	2242	2248	2302	2339	1385
45°	1593	1601	1622	1632	1648	1224
55°	975	951	949	918	937	875
65°	556	489	440	508	537	560
75°	315	284	236	330	360	338
85°	123	115	108	142	155	132
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3135.2	3135.2	3135.2	3135.2	3135.2
2.5°	3136.9	3128.9	3125.9	3138.6	3146.6
5°	3124.2	3117.9	3119.6	3130.6	3138.6
7.5°	3101.9	3097.3	3097.3	3112.9	3120.9
10°	3069.9	3068.6	3068.6	3087.6	3098.5
12.5°	3025.6	3026.9	3033.2	3058.9	3077.9
15°	2972.9	2975.8	2988.9	3025.6	3041.2
17.5°	2915.6	2915.6	2940.9	2969.5	2988.9
20°	2842.2	2846.8	2875.5	2907.6	2926.5
22.5°	2767.2	2775.2	2799.2	2835.9	2853.2
25°	2682.9	2692.6	2713.2	2748.2	2762.5
27.5°	2584.2	2596.9	2619.2	2644.5	2674.8
30°	2470.8	2490.2	2504.5	2539.5	2572.8
32.5°	2356.1	2373.8	2389.9	2426.5	2464.5
35°	2222.5	2241.5	2247.8	2302.2	2338.9
37.5°	2085.5	2093.5	2096.5	2150.8	2190.5
40°	1921.5	1937.1	1942.2	1985.2	2010.5
42.5°	1763.4	1770.2	1779.4	1811.5	1841.8
45°	1593.1	1601.1	1621.8	1631.5	1647.5
47.5°	1414.8	1438.8	1462.4	1432.1	1433.8
50°	1252.1	1271.4	1296.7	1239.4	1239.4
52.5°	1107.0	1116.7	1118.4	1070.8	1080.1
55°	975.1	951.1	949.4	917.8	936.7
57.5°	842.7	811.1	799.7	790.0	812.4
60°	736.1	678.7	662.7	677.0	707.4
62.5°	648.4	575.0	544.7	581.3	608.7
65°	556.0	489.0	439.7	508.4	537.1
67.5°	484.4	420.7	357.1	454.0	474.7
70°	417.4	368.0	294.7	412.7	428.7
72.5°	363.4	325.0	255.0	372.7	392.1
75°	315.3	283.7	235.7	329.7	360.0
77.5°	277.4	242.0	220.1	285.0	321.7
80°	234.4	199.0	199.0	239.0	272.3
82.5°	184.6	156.0	161.0	194.3	218.4
85°	122.7	114.7	108.3	141.6	154.7
87.5°	62.0	63.7	57.3	73.4	75.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)