

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: P476058

Luminaire Tested: **22GR-LD5-70-A-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476058
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-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: 6976.3 lumens
Efficiency: N/A
Efficacy: 133.4 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

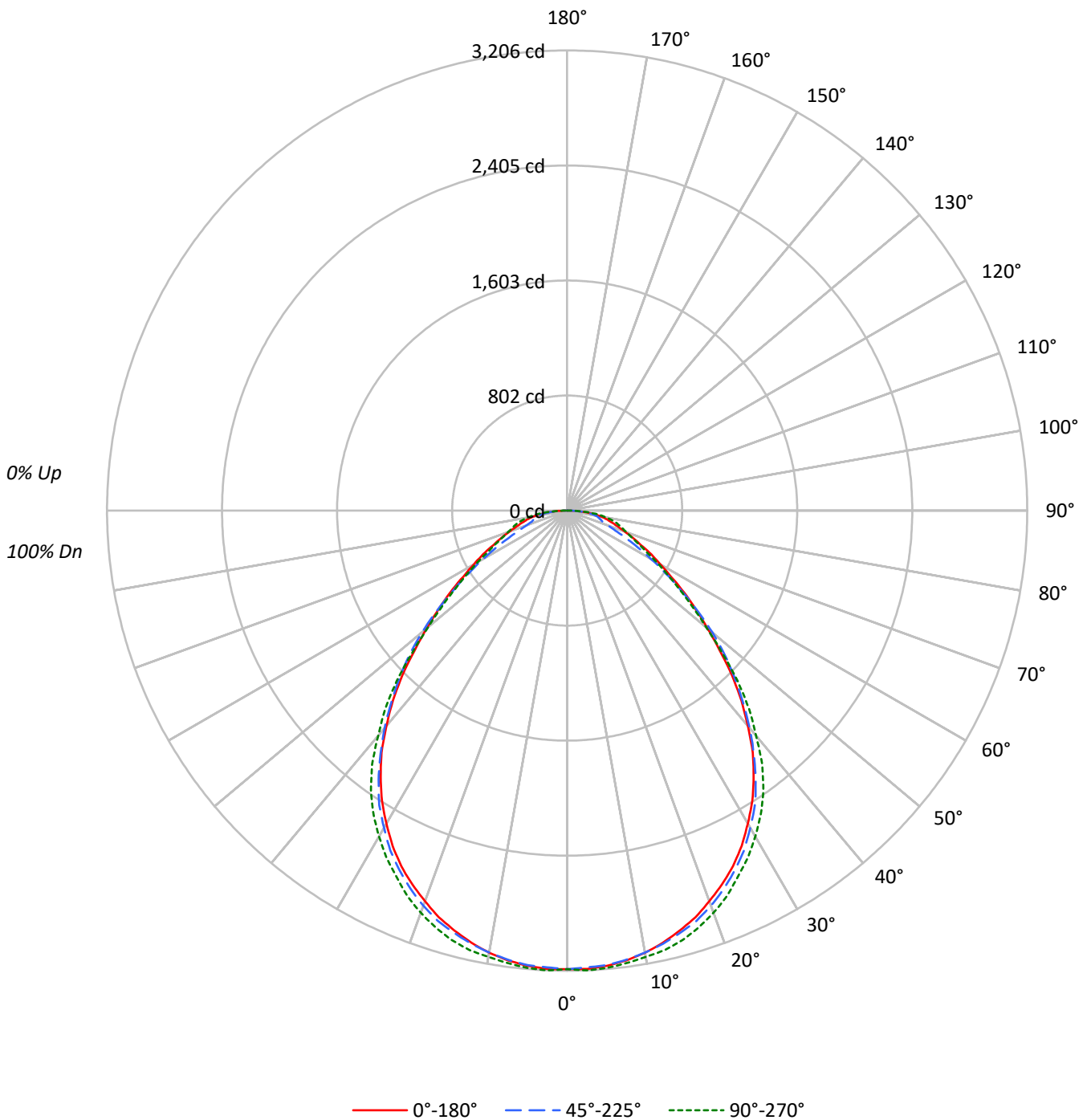
Input Watts (W): 52.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
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°	8597	8597	8597
5°	8600	8587	8639
10°	8548	8544	8628
15°	8440	8485	8634
20°	8294	8391	8540
25°	8117	8209	8358
30°	7823	7930	8146
35°	7440	7524	7829
40°	6878	6952	7197
45°	6178	6289	6389
50°	5341	5532	5287
55°	4662	4539	4478
60°	4036	3634	3879
65°	3608	2853	3485
70°	3346	2363	3437
75°	3341	2496	3815
80°	3701	3143	4300
85°	3859	3409	4869



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.3	4.3
10°-20°	861.1	12.3
20°-30°	1273.5	18.3
30°-40°	1437.1	20.6
40°-50°	1266.9	18.2
50°-60°	869.1	12.5
60°-70°	512.8	7.4
70°-80°	320.0	4.6
80°-90°	133.4	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°	2437.0	34.9
0°-40°	3874.1	55.5
0°-60°	6010.0	86.1
0°-90°	6976.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6976.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3195	3195	3195	3195	3195	
5°	3184	3177	3179	3190	3198	302
15°	3029	3032	3046	3083	3099	854
25°	2734	2744	2765	2800	2815	1255
35°	2265	2284	2290	2346	2383	1411
45°	1623	1632	1653	1662	1679	1247
55°	994	969	967	935	954	891
65°	567	498	448	518	547	571
75°	321	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°	3194.8	3194.8	3194.8	3194.8	3194.8
2.5°	3196.5	3188.3	3185.3	3198.2	3206.4
5°	3183.6	3177.2	3178.9	3190.0	3198.2
7.5°	3160.8	3156.1	3156.1	3172.0	3180.2
10°	3128.2	3126.9	3126.9	3146.2	3157.4
12.5°	3083.1	3084.4	3090.8	3117.0	3136.3
15°	3029.4	3032.4	3045.7	3083.1	3099.0
17.5°	2971.0	2971.0	2996.7	3025.9	3045.7
20°	2896.2	2900.9	2930.1	2962.8	2982.1
22.5°	2819.7	2827.9	2852.4	2889.8	2907.4
25°	2733.8	2743.7	2764.8	2800.4	2815.0
27.5°	2633.3	2646.2	2669.0	2694.7	2725.7
30°	2517.8	2537.5	2552.1	2587.8	2621.7
32.5°	2400.9	2419.0	2435.3	2472.6	2511.3
35°	2264.7	2284.1	2290.5	2345.9	2383.3
37.5°	2125.1	2133.3	2136.3	2191.7	2232.1
40°	1958.0	1973.9	1979.1	2022.9	2048.7
42.5°	1796.9	1803.8	1813.2	1845.9	1876.8
45°	1623.4	1631.5	1652.6	1662.5	1678.8
47.5°	1441.7	1466.1	1490.2	1459.3	1461.0
50°	1275.8	1295.6	1321.4	1263.0	1263.0
52.5°	1128.1	1138.0	1139.7	1091.1	1100.6
55°	993.6	969.1	967.4	935.2	954.5
57.5°	858.7	826.5	814.9	805.0	827.8
60°	750.0	691.6	675.3	689.9	720.8
62.5°	660.7	585.9	555.0	592.4	620.3
65°	566.6	498.3	448.0	518.1	547.3
67.5°	493.6	428.7	363.9	462.7	483.7
70°	425.3	375.0	300.3	420.6	436.9
72.5°	370.3	331.2	259.9	379.7	399.5
75°	321.3	289.1	240.1	335.9	366.9
77.5°	282.7	246.6	224.2	290.4	327.8
80°	238.8	202.8	202.8	243.6	277.5
82.5°	188.2	158.9	164.1	198.0	222.5
85°	125.0	116.8	110.4	144.3	157.7
87.5°	63.1	64.9	58.4	74.7	76.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)