

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: P234150

Luminaire Tested: **22GR-LD5-70-A19/156-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234150
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33284)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-70-A19/156-UNV-L935-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH A19/156 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5851.4 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.21
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

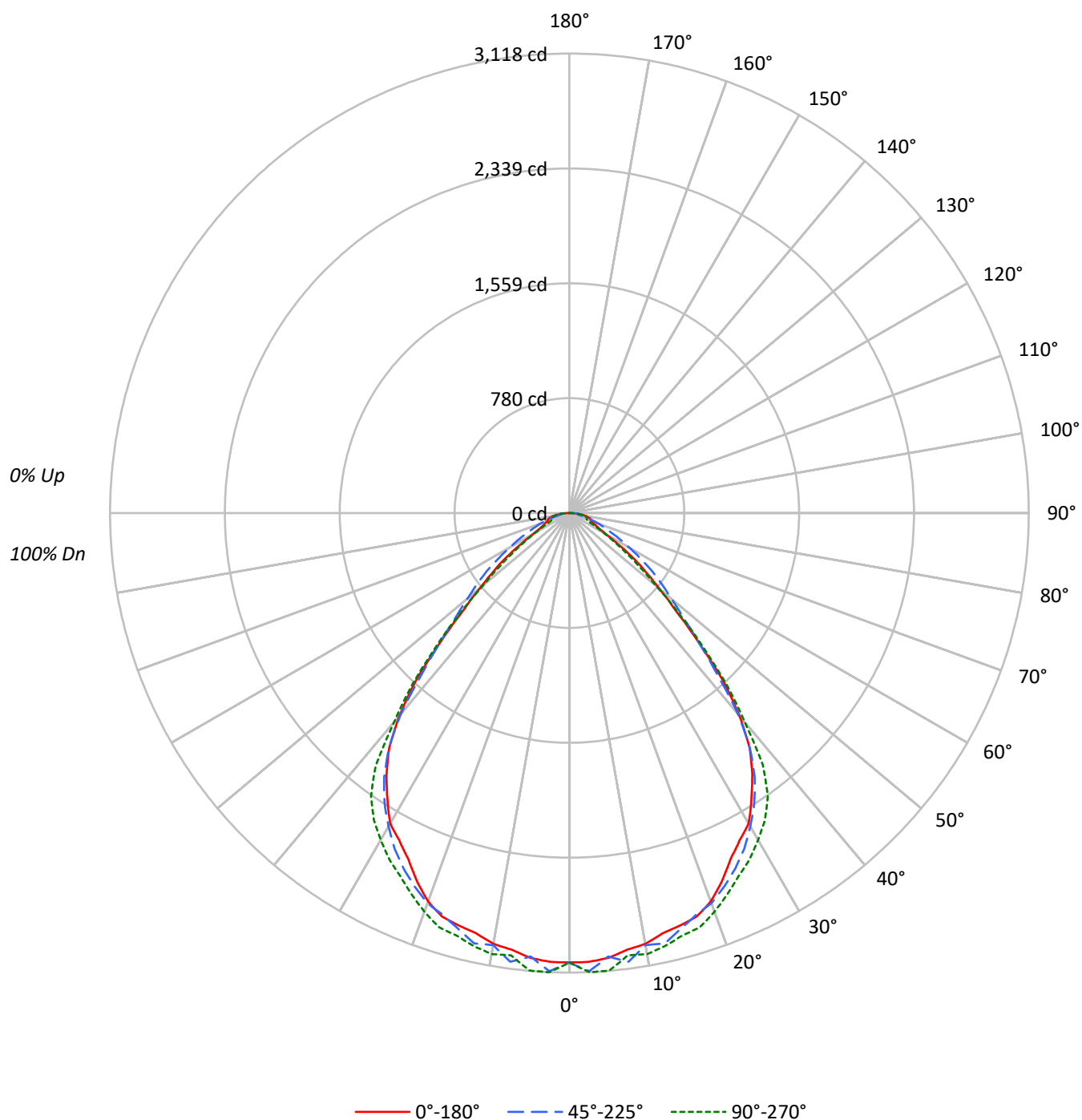
Input Watts (W): 64.16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90	88		
2	103	96	90	85	100	94	89	85	91	86	83	88	84	81	85	82	79	77		
3	95	86	79	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68		
4	88	78	71	65	86	77	70	64	75	68	64	72	67	63	70	66	62	60		
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	59	56	54		
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48		
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44		
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	51	45	41	40		
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36		
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9766	9766	9766
5°	9741	9710	10016
10°	9653	9679	9881
15°	9608	9681	9836
20°	9557	9604	9810
25°	9149	9407	9602
30°	8998	9080	9467
35°	8462	8570	9179
40°	7499	7447	7741
45°	5601	5613	5769
50°	3943	4485	3819
55°	2909	3787	2609
60°	1819	2993	1704
65°	1484	2372	1191
70°	1472	1976	1175
75°	1825	1450	1518
80°	2034	1143	1855
85°	2028	2128	2076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.3	5.0
10°-20°	826.9	14.1
20°-30°	1224.7	20.9
30°-40°	1371.8	23.4
40°-50°	1008.0	17.2
50°-60°	563.4	9.6
60°-70°	314.0	5.4
70°-80°	184.5	3.2
80°-90°	67.8	1.2
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°	2341.9	40.0
0°-40°	3713.7	63.5
0°-60°	5285.1	90.3
0°-90°	5851.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5851.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3050	3050	3050	3050	3050	
5°	3030	3087	3021	3083	3116	287
15°	2898	2916	2920	2964	2967	818
25°	2589	2610	2662	2699	2717	1200
35°	2164	2166	2192	2291	2348	1341
45°	1237	1337	1239	1328	1274	966
55°	521	634	678	677	467	465
65°	196	347	313	401	157	202
75°	148	208	117	236	123	148
85°	55	81	58	74	56	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3049.5	3049.5	3049.5	3049.5	3049.5
2.5°	3048.2	3075.8	3111.6	3115.8	3118.5
5°	3030.2	3086.8	3020.6	3082.7	3115.8
7.5°	2988.9	3023.4	3071.6	3009.6	3027.5
10°	2968.3	2976.5	2976.5	3053.7	3038.6
12.5°	2921.4	2976.5	2990.3	2975.2	3008.2
15°	2897.9	2915.8	2920.0	2964.1	2966.8
17.5°	2871.7	2867.6	2858.0	2889.7	2946.2
20°	2804.2	2789.0	2818.0	2856.6	2878.6
22.5°	2705.0	2709.0	2743.5	2775.2	2800.1
25°	2589.1	2609.8	2662.2	2699.4	2717.4
27.5°	2502.2	2532.6	2568.4	2612.6	2648.4
30°	2433.3	2430.6	2455.4	2518.8	2560.2
32.5°	2299.6	2309.3	2335.5	2411.3	2469.2
35°	2164.5	2165.9	2192.1	2291.3	2347.9
37.5°	2008.7	1997.7	2012.8	2120.4	2157.6
40°	1793.7	1796.4	1781.3	1857.1	1851.6
42.5°	1542.8	1564.8	1486.2	1585.4	1578.5
45°	1236.7	1337.3	1239.4	1327.6	1273.9
47.5°	976.1	1125.0	1043.6	1108.4	1007.8
50°	791.4	944.4	900.2	929.2	766.5
52.5°	649.3	773.4	787.2	794.1	598.3
55°	521.1	634.2	678.3	676.9	467.3
57.5°	384.6	515.6	566.6	587.3	354.3
60°	284.0	428.7	467.3	512.9	266.0
62.5°	228.8	376.4	386.0	449.5	202.6
65°	195.8	347.4	313.0	401.2	157.2
67.5°	173.7	324.0	255.1	358.4	133.7
70°	157.2	288.2	211.0	321.2	125.5
72.5°	153.0	245.4	162.7	286.8	124.1
75°	147.5	208.2	117.2	235.8	122.7
77.5°	126.8	177.8	84.1	182.0	114.4
80°	110.3	142.0	62.0	136.5	100.6
82.5°	85.5	107.5	55.2	103.4	81.3
85°	55.2	81.3	57.9	74.5	56.5
87.5°	26.2	45.5	41.4	39.9	29.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)