

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: P234149

Luminaire Tested: **22GR-LD5-70-A19/156-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234149
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-L930-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: 5429.6 lumens
Efficiency: N/A
Efficacy: 84.6 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

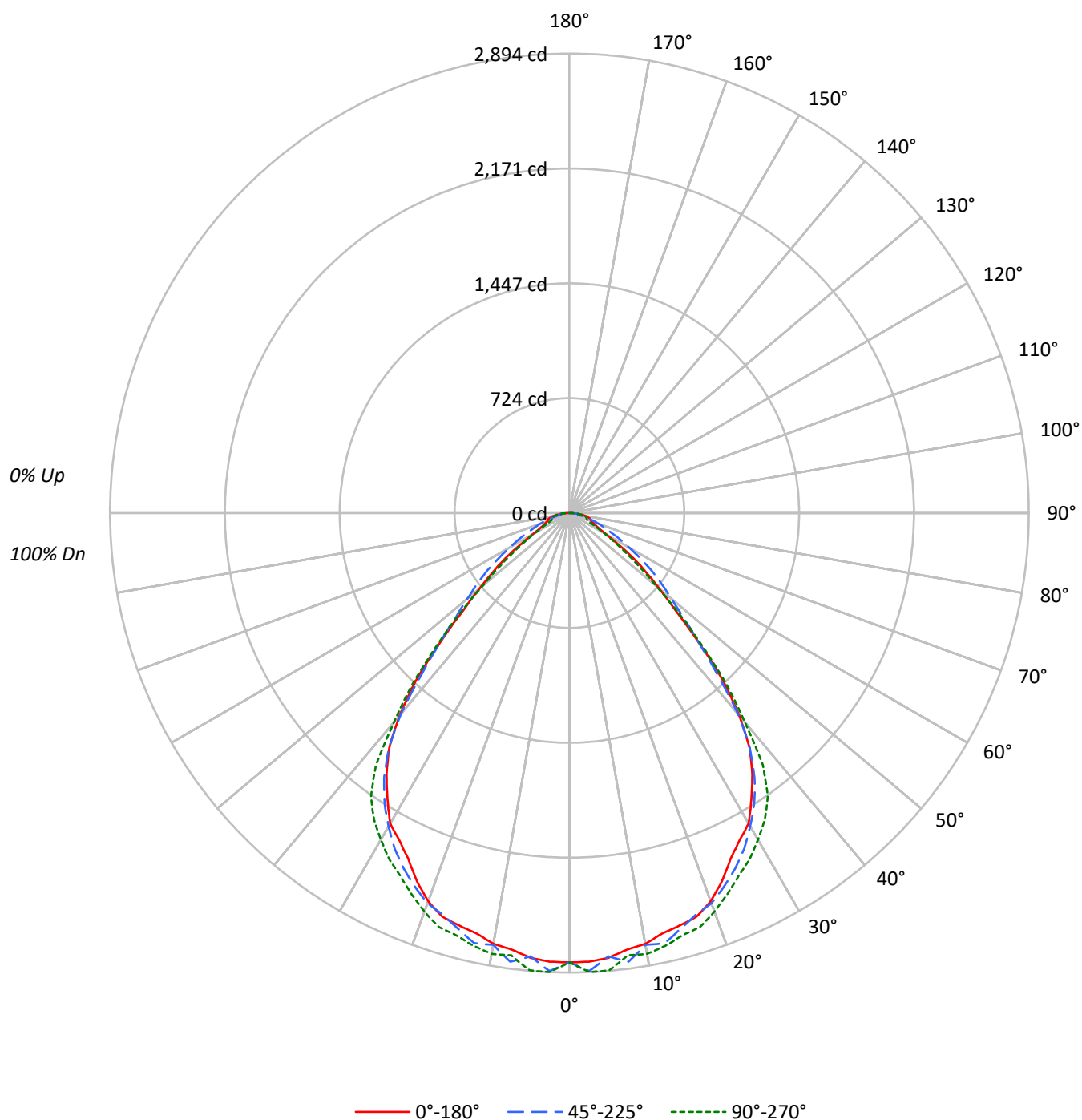
Input Watts (W): 64.16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9062	9062	9062
5°	9039	9010	9294
10°	8957	8981	9169
15°	8915	8983	9127
20°	8868	8911	9103
25°	8489	8729	8910
30°	8350	8425	8785
35°	7852	7952	8517
40°	6958	6910	7183
45°	5197	5208	5353
50°	3658	4162	3544
55°	2700	3514	2422
60°	1688	2778	1581
65°	1376	2201	1105
70°	1365	1832	1090
75°	1694	1345	1408
80°	1887	1062	1723
85°	1881	1973	1929



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.4	5.0
10°-20°	767.3	14.1
20°-30°	1136.4	20.9
30°-40°	1272.9	23.4
40°-50°	935.3	17.2
50°-60°	522.8	9.6
60°-70°	291.4	5.4
70°-80°	171.2	3.2
80°-90°	62.9	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°	2173.0	40.0
0°-40°	3445.9	63.5
0°-60°	4904.1	90.3
0°-90°	5429.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5429.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2830	2830	2830	2830	2830	
5°	2812	2864	2803	2860	2891	266
15°	2689	2706	2710	2750	2753	759
25°	2402	2422	2470	2505	2521	1113
35°	2008	2010	2034	2126	2179	1244
45°	1148	1241	1150	1232	1182	897
55°	484	588	629	628	434	431
65°	182	322	290	372	146	188
75°	137	193	109	219	114	138
85°	51	75	54	69	52	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2829.7	2829.7	2829.7	2829.7	2829.7
2.5°	2828.4	2854.1	2887.3	2891.2	2893.7
5°	2811.9	2864.3	2802.8	2860.5	2891.2
7.5°	2773.5	2805.5	2850.2	2792.7	2809.2
10°	2754.3	2761.9	2761.9	2833.6	2819.5
12.5°	2710.8	2761.9	2774.7	2760.7	2791.4
15°	2689.0	2705.7	2709.5	2750.4	2753.0
17.5°	2664.8	2660.9	2652.0	2681.3	2733.8
20°	2602.0	2588.0	2614.8	2650.6	2671.1
22.5°	2509.9	2513.8	2545.8	2575.2	2598.2
25°	2402.4	2421.6	2470.2	2504.8	2521.4
27.5°	2321.9	2350.0	2383.2	2424.2	2457.5
30°	2258.0	2255.3	2278.4	2337.2	2375.6
32.5°	2133.8	2142.7	2167.1	2237.5	2291.2
35°	2008.4	2009.7	2034.0	2126.2	2178.6
37.5°	1863.9	1853.7	1867.7	1967.5	2002.0
40°	1664.4	1666.9	1652.8	1723.1	1718.1
42.5°	1431.5	1452.0	1379.1	1471.2	1464.8
45°	1147.5	1240.9	1150.0	1232.0	1182.0
47.5°	905.7	1043.9	968.4	1028.5	935.1
50°	734.3	876.3	835.3	862.2	711.3
52.5°	602.5	717.7	730.5	736.9	555.2
55°	483.6	588.4	629.4	628.1	433.7
57.5°	356.9	478.5	525.8	545.0	328.7
60°	263.5	397.9	433.7	475.9	246.9
62.5°	212.4	349.2	358.2	417.1	188.0
65°	181.6	322.3	290.4	372.3	145.8
67.5°	161.2	300.6	236.7	332.6	124.1
70°	145.8	267.4	195.7	298.1	116.4
72.5°	142.0	227.7	151.0	266.1	115.1
75°	136.9	193.2	108.7	218.8	113.8
77.5°	117.7	165.1	78.1	168.8	106.2
80°	102.3	131.8	57.6	126.6	93.4
82.5°	79.3	99.8	51.2	95.9	75.4
85°	51.2	75.4	53.7	69.0	52.5
87.5°	24.3	42.2	38.4	37.1	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)