

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: P234145

Luminaire Tested: **22GR-LD5-60-A19/156-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234145
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-LD5-60-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: 4606.1 lumens
Efficiency: N/A
Efficacy: 92.9 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

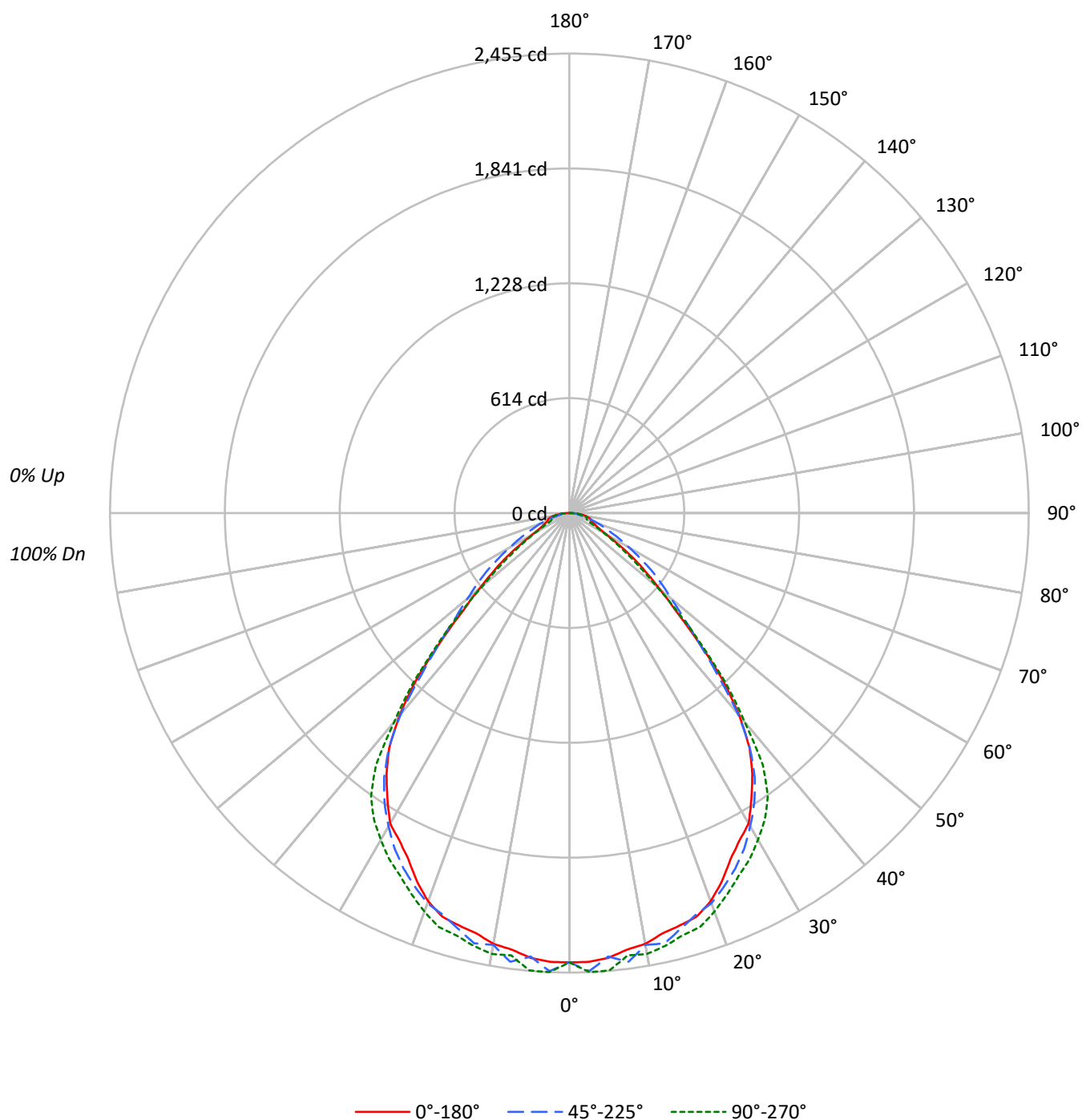
Input Watts (W): 49.58
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7688	7688	7688
5°	7668	7644	7885
10°	7598	7620	7778
15°	7563	7621	7743
20°	7523	7560	7723
25°	7202	7405	7559
30°	7083	7147	7452
35°	6661	6746	7226
40°	5903	5862	6093
45°	4409	4418	4542
50°	3104	3530	3006
55°	2290	2982	2054
60°	1432	2356	1341
65°	1168	1866	937
70°	1158	1554	924
75°	1437	1141	1195
80°	1601	902	1461
85°	1595	1676	1635



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.5	5.0
10°-20°	650.9	14.1
20°-30°	964.1	20.9
30°-40°	1079.9	23.4
40°-50°	793.5	17.2
50°-60°	443.5	9.6
60°-70°	247.2	5.4
70°-80°	145.2	3.2
80°-90°	53.4	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°	1843.5	40.0
0°-40°	2923.3	63.5
0°-60°	4160.3	90.3
0°-90°	4606.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4606.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2401	2401	2401	2401	2401	
5°	2385	2430	2378	2427	2453	226
15°	2281	2295	2299	2333	2335	644
25°	2038	2054	2096	2125	2139	945
35°	1704	1705	1726	1804	1848	1056
45°	974	1053	976	1045	1003	761
55°	410	499	534	533	368	366
65°	154	274	246	316	124	159
75°	116	164	92	186	97	117
85°	43	64	46	59	44	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2400.6	2400.6	2400.6	2400.6	2400.6
2.5°	2399.5	2421.2	2449.4	2452.7	2454.8
5°	2385.4	2429.9	2377.8	2426.6	2452.7
7.5°	2352.8	2380.0	2417.9	2369.1	2383.2
10°	2336.6	2343.1	2343.1	2403.8	2391.9
12.5°	2299.7	2343.1	2353.9	2342.0	2368.1
15°	2281.2	2295.3	2298.6	2333.3	2335.4
17.5°	2260.6	2257.4	2249.8	2274.7	2319.2
20°	2207.4	2195.5	2218.3	2248.7	2266.0
22.5°	2129.3	2132.6	2159.6	2184.6	2204.2
25°	2038.1	2054.4	2095.7	2124.9	2139.1
27.5°	1969.7	1993.6	2021.9	2056.6	2084.8
30°	1915.5	1913.3	1932.8	1982.8	2015.3
32.5°	1810.2	1817.8	1838.4	1898.1	1943.7
35°	1703.9	1704.9	1725.5	1803.7	1848.2
37.5°	1581.2	1572.5	1584.5	1669.1	1698.5
40°	1412.0	1414.1	1402.1	1461.8	1457.5
42.5°	1214.4	1231.8	1169.9	1248.0	1242.6
45°	973.5	1052.7	975.6	1045.1	1002.8
47.5°	768.3	885.6	821.6	872.6	793.3
50°	623.0	743.4	708.6	731.4	603.4
52.5°	511.2	608.8	619.7	625.1	471.0
55°	410.2	499.2	534.0	532.8	367.9
57.5°	302.8	405.9	446.1	462.3	278.9
60°	223.5	337.5	367.9	403.7	209.4
62.5°	180.2	296.3	303.9	353.8	159.6
65°	154.1	273.5	246.3	315.8	123.7
67.5°	136.8	255.0	200.7	282.2	105.3
70°	123.7	226.8	166.0	252.9	98.7
72.5°	120.5	193.2	128.1	225.7	97.7
75°	116.1	163.8	92.2	185.6	96.6
77.5°	99.9	140.0	66.2	143.3	90.0
80°	86.8	111.8	48.9	107.4	79.2
82.5°	67.3	84.6	43.4	81.4	64.0
85°	43.4	64.0	45.6	58.6	44.5
87.5°	20.6	35.8	32.6	31.5	22.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)