

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: P234151

Luminaire Tested: **22GR-LD5-70-A19/156-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234151
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-L940-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: 5920.2 lumens
Efficiency: N/A
Efficacy: 92.3 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

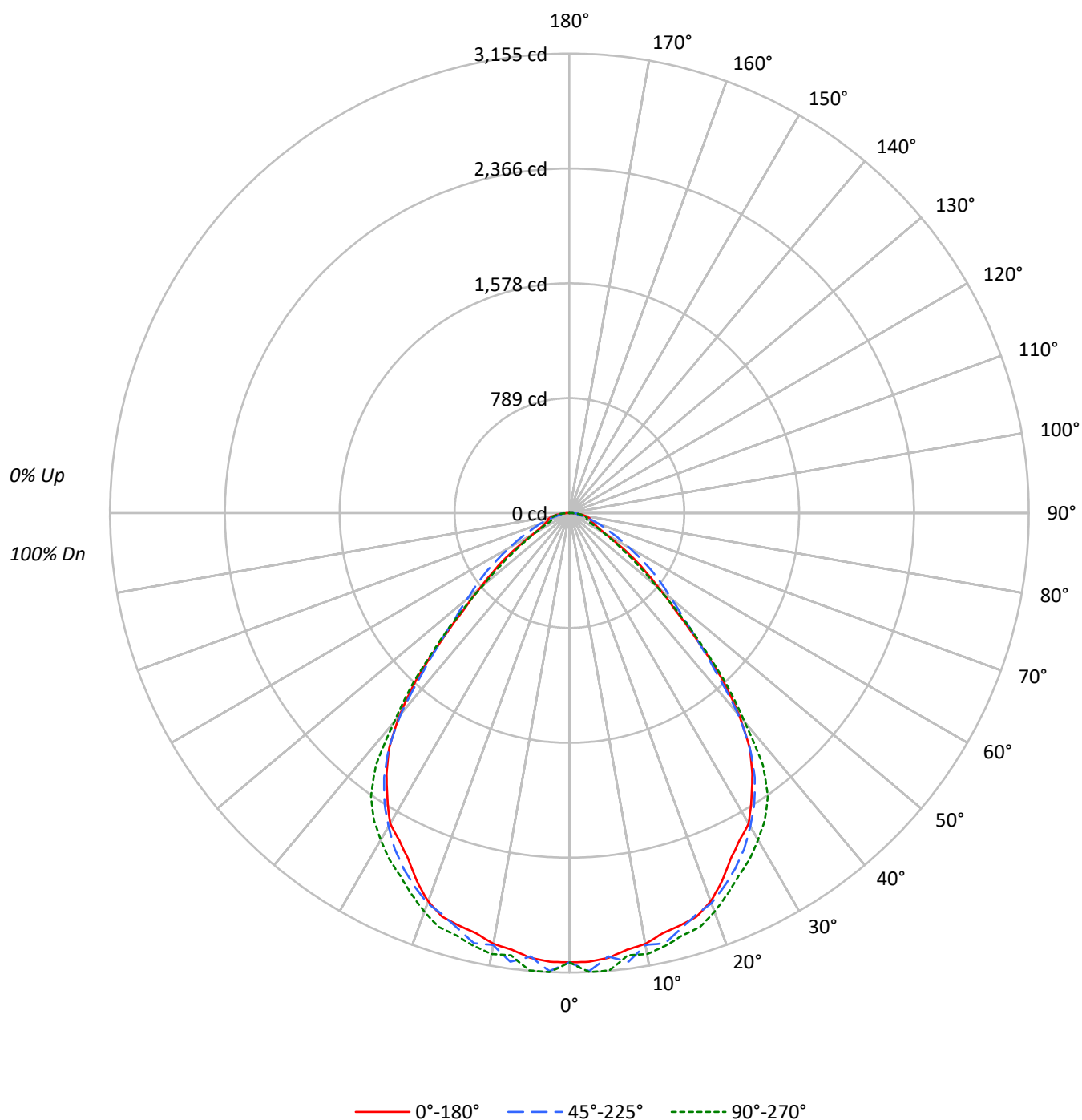
Input Watts (W): 64.16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9881	9881	9881
5°	9856	9825	10134
10°	9766	9793	9997
15°	9721	9795	9952
20°	9669	9717	9926
25°	9257	9518	9715
30°	9104	9187	9579
35°	8562	8671	9287
40°	7587	7534	7831
45°	5667	5679	5837
50°	3989	4538	3864
55°	2944	3832	2640
60°	1840	3028	1724
65°	1501	2400	1205
70°	1489	1999	1188
75°	1846	1467	1537
80°	2058	1158	1877
85°	2050	2153	2102



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.7	5.0
10°-20°	836.6	14.1
20°-30°	1239.1	20.9
30°-40°	1388.0	23.4
40°-50°	1019.8	17.2
50°-60°	570.0	9.6
60°-70°	317.7	5.4
70°-80°	186.7	3.2
80°-90°	68.6	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°	2369.4	40.0
0°-40°	3757.4	63.5
0°-60°	5347.2	90.3
0°-90°	5920.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5920.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3085	3085	3085	3085	3085	
5°	3066	3123	3056	3119	3152	290
15°	2932	2950	2954	2999	3002	828
25°	2620	2640	2694	2731	2749	1214
35°	2190	2191	2218	2318	2376	1357
45°	1251	1353	1254	1343	1289	978
55°	527	642	686	685	473	470
65°	198	352	317	406	159	205
75°	149	211	119	239	124	150
85°	56	82	59	75	57	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3085.4	3085.4	3085.4	3085.4	3085.4
2.5°	3084.0	3112.0	3148.2	3152.4	3155.2
5°	3065.9	3123.1	3056.2	3119.0	3152.4
7.5°	3024.1	3058.9	3107.8	3045.0	3063.1
10°	3003.2	3011.5	3011.5	3089.6	3074.3
12.5°	2955.7	3011.5	3025.5	3010.2	3043.6
15°	2932.0	2950.1	2954.4	2999.0	3001.7
17.5°	2905.5	2901.4	2891.6	2923.7	2980.8
20°	2837.1	2821.8	2851.2	2890.2	2912.5
22.5°	2736.8	2740.9	2775.8	2807.9	2833.0
25°	2619.6	2640.5	2693.5	2731.2	2749.3
27.5°	2531.7	2562.4	2598.7	2643.3	2679.6
30°	2461.9	2459.2	2484.3	2548.4	2590.3
32.5°	2326.6	2336.4	2362.9	2439.6	2498.2
35°	2190.0	2191.4	2217.9	2318.3	2375.5
37.5°	2032.4	2021.2	2036.5	2145.4	2182.9
40°	1814.8	1817.5	1802.2	1878.9	1873.3
42.5°	1560.9	1583.2	1503.7	1604.1	1597.1
45°	1251.2	1353.0	1254.0	1343.2	1288.9
47.5°	987.5	1138.2	1055.9	1121.4	1019.6
50°	800.7	955.5	910.8	940.2	775.5
52.5°	657.0	782.5	796.4	803.4	605.4
55°	527.3	641.6	686.3	684.9	472.8
57.5°	389.2	521.7	573.3	594.2	358.4
60°	287.3	433.8	472.8	518.9	269.2
62.5°	231.5	380.8	390.5	454.8	205.0
65°	198.1	351.5	316.7	405.9	159.0
67.5°	175.8	327.8	258.1	362.7	135.3
70°	159.0	291.5	213.5	325.0	126.9
72.5°	154.8	248.3	164.6	290.2	125.6
75°	149.2	210.6	118.6	238.6	124.2
77.5°	128.3	179.9	85.1	184.1	115.8
80°	111.6	143.7	62.8	138.1	101.8
82.5°	86.5	108.8	55.8	104.6	82.3
85°	55.8	82.3	58.6	75.3	57.2
87.5°	26.5	46.0	41.9	40.4	29.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)