

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: P234155

Luminaire Tested: **22GR-LD5-85-A19/156-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234155
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-LD5-85-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: 7243.8 lumens
Efficiency: N/A
Efficacy: 89.4 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

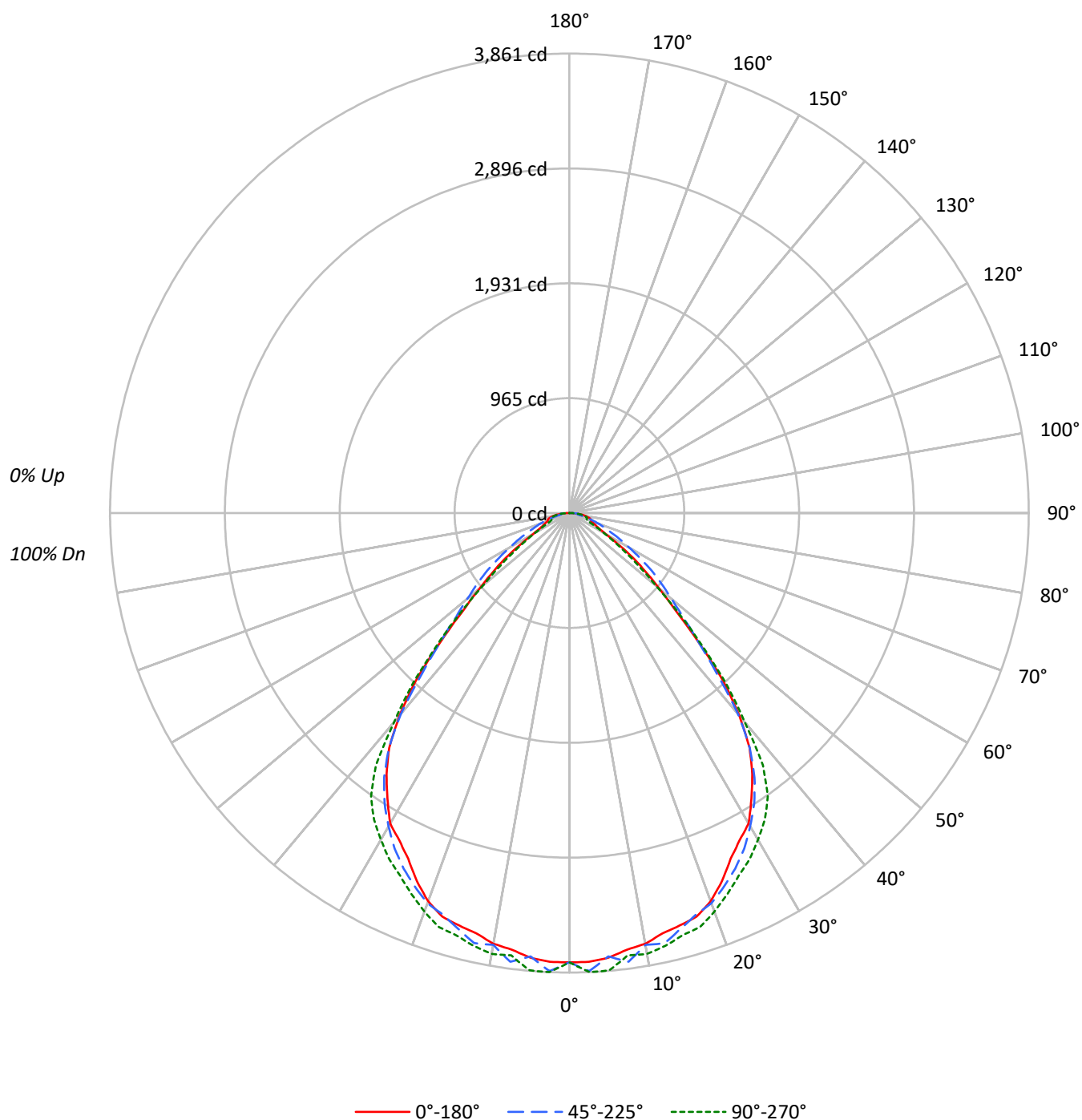
Input Watts (W): 81.06
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	12090	12090	12090
5°	12059	12021	12400
10°	11949	11983	12232
15°	11894	11985	12177
20°	11831	11889	12145
25°	11326	11646	11887
30°	11139	11241	11720
35°	10476	10609	11363
40°	9282	9218	9583
45°	6933	6949	7142
50°	4881	5553	4728
55°	3602	4688	3231
60°	2252	3706	2110
65°	1836	2936	1474
70°	1821	2445	1454
75°	2259	1795	1880
80°	2519	1416	2298
85°	2510	2635	2572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.4	5.0
10°-20°	1023.6	14.1
20°-30°	1516.1	20.9
30°-40°	1698.2	23.4
40°-50°	1247.8	17.2
50°-60°	697.5	9.6
60°-70°	388.7	5.4
70°-80°	228.4	3.2
80°-90°	84.0	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°	2899.1	40.0
0°-40°	4597.4	63.5
0°-60°	6542.7	90.3
0°-90°	7243.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7243.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3775	3775	3775	3775	3775	
5°	3751	3821	3740	3816	3857	355
15°	3588	3610	3615	3669	3673	1013
25°	3205	3231	3296	3342	3364	1486
35°	2680	2681	2714	2836	2906	1660
45°	1531	1656	1534	1644	1577	1196
55°	645	785	840	838	579	576
65°	242	430	387	497	194	251
75°	183	258	145	292	152	183
85°	68	101	72	92	70	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3775.2	3775.2	3775.2	3775.2	3775.2
2.5°	3773.5	3807.6	3852.0	3857.2	3860.6
5°	3751.3	3821.3	3739.5	3816.2	3857.2
7.5°	3700.2	3742.8	3802.6	3725.8	3748.0
10°	3674.5	3684.8	3684.8	3780.4	3761.6
12.5°	3616.6	3684.8	3701.9	3683.1	3724.1
15°	3587.5	3609.7	3614.8	3669.4	3672.9
17.5°	3555.1	3550.0	3538.0	3577.3	3647.3
20°	3471.5	3452.7	3488.5	3536.3	3563.6
22.5°	3348.6	3353.7	3396.4	3435.6	3466.3
25°	3205.2	3230.8	3295.7	3341.8	3364.0
27.5°	3097.7	3135.2	3179.6	3234.2	3278.6
30°	3012.3	3009.0	3039.7	3118.2	3169.4
32.5°	2846.8	2858.7	2891.1	2985.1	3056.7
35°	2679.5	2681.2	2713.6	2836.5	2906.5
37.5°	2486.7	2473.0	2491.8	2624.9	2671.0
40°	2220.4	2223.9	2205.0	2299.0	2292.2
42.5°	1909.8	1937.2	1839.8	1962.7	1954.2
45°	1530.9	1655.5	1534.3	1643.5	1577.0
47.5°	1208.4	1392.7	1292.0	1372.2	1247.6
50°	979.6	1169.1	1114.5	1150.3	948.9
52.5°	803.8	957.4	974.6	983.1	740.7
55°	645.2	785.1	839.7	838.0	578.6
57.5°	476.2	638.3	701.5	727.0	438.6
60°	351.6	530.8	578.6	634.9	329.4
62.5°	283.3	465.9	477.9	556.4	250.9
65°	242.3	430.1	387.4	496.6	194.5
67.5°	215.1	401.1	315.7	443.8	165.6
70°	194.5	356.7	261.1	397.7	155.3
72.5°	189.5	303.8	201.4	355.0	153.6
75°	182.6	257.7	145.1	291.9	151.9
77.5°	157.0	220.2	104.1	225.3	141.6
80°	136.6	175.8	76.8	169.0	124.6
82.5°	105.8	133.1	68.3	128.0	100.7
85°	68.3	100.7	71.7	92.2	70.0
87.5°	32.4	56.3	51.2	49.5	35.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)