

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: P234158

Luminaire Tested: **22GR-LD5-90-A19/156-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234158
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-LD5-90-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: 7525.0 lumens
Efficiency: N/A
Efficacy: 87.6 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

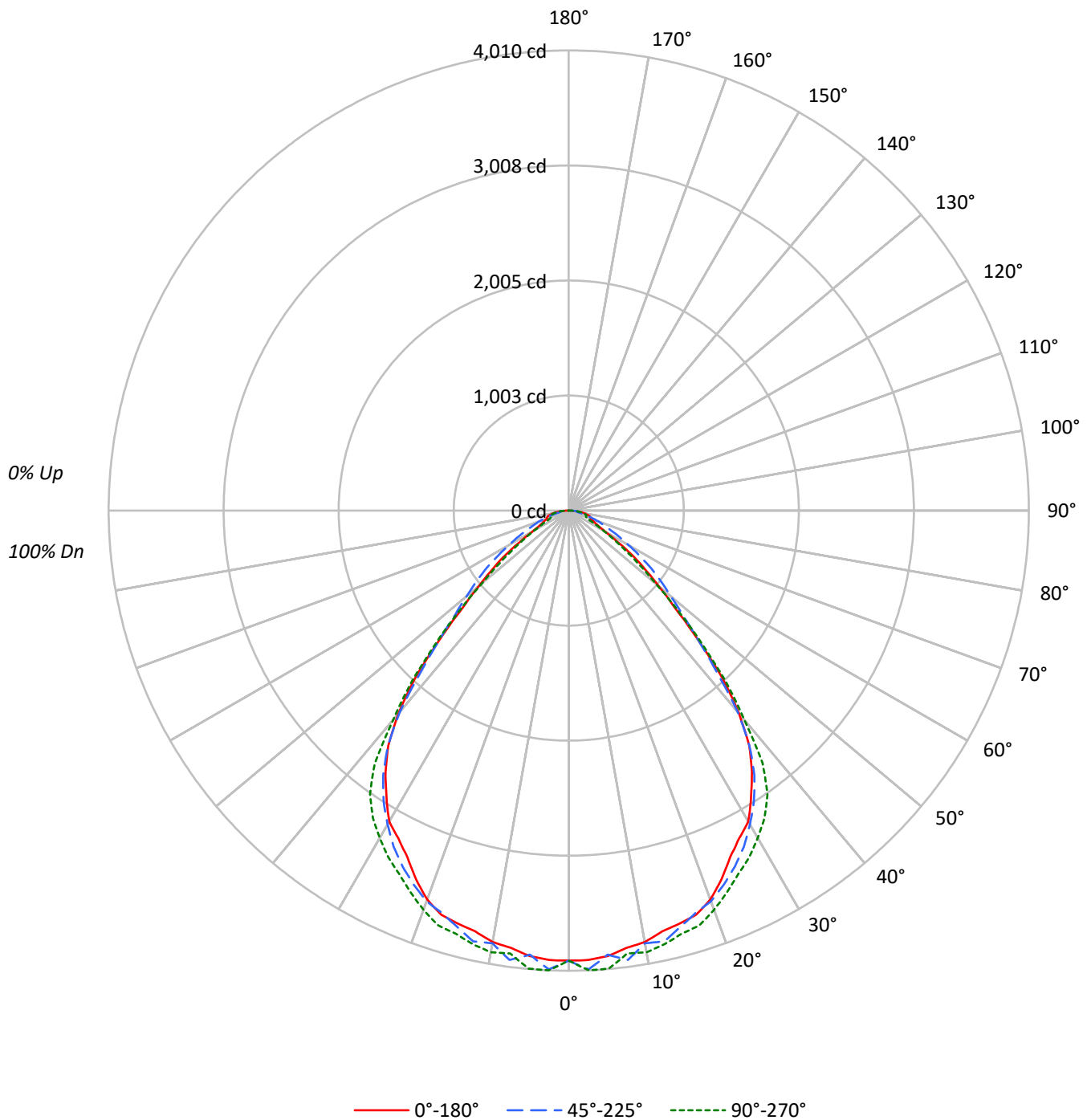
Input Watts (W): 85.94
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12560	12560	12560
5°	12528	12488	12881
10°	12413	12448	12707
15°	12356	12450	12650
20°	12290	12351	12616
25°	11766	12097	12348
30°	11572	11677	12175
35°	10883	11021	11804
40°	9643	9576	9954
45°	7203	7219	7419
50°	5070	5768	4911
55°	3742	4870	3356
60°	2339	3849	2192
65°	1908	3050	1531
70°	1892	2539	1510
75°	2347	1865	1953
80°	2617	1472	2388
85°	2605	2737	2671



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.3	5.0
10°-20°	1063.4	14.1
20°-30°	1575.0	20.9
30°-40°	1764.2	23.4
40°-50°	1296.3	17.2
50°-60°	724.6	9.6
60°-70°	403.8	5.4
70°-80°	237.3	3.2
80°-90°	87.2	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°	3011.7	40.0
0°-40°	4775.9	63.5
0°-60°	6796.8	90.3
0°-90°	7525.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7525.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3922	3922	3922	3922	3922	
5°	3897	3970	3885	3964	4007	369
15°	3727	3750	3755	3812	3816	1053
25°	3330	3356	3424	3472	3494	1543
35°	2784	2785	2819	2947	3019	1724
45°	1590	1720	1594	1707	1638	1243
55°	670	816	872	871	601	598
65°	252	447	402	516	202	260
75°	190	268	151	303	158	191
85°	71	105	74	96	73	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3921.8	3921.8	3921.8	3921.8	3921.8
2.5°	3920.1	3955.6	4001.6	4007.0	4010.5
5°	3897.0	3969.8	3884.6	3964.4	4007.0
7.5°	3843.9	3888.2	3950.2	3870.4	3893.5
10°	3817.3	3827.9	3827.9	3927.2	3907.7
12.5°	3757.0	3827.9	3845.6	3826.1	3868.7
15°	3726.8	3749.9	3755.2	3811.9	3815.5
17.5°	3693.2	3687.8	3675.4	3716.2	3788.9
20°	3606.3	3586.7	3624.0	3673.6	3702.0
22.5°	3478.6	3483.9	3528.3	3569.1	3600.9
25°	3329.7	3356.2	3423.6	3471.5	3494.5
27.5°	3217.9	3256.9	3303.1	3359.8	3406.0
30°	3129.4	3125.8	3157.7	3239.3	3292.5
32.5°	2957.3	2969.7	3003.5	3101.0	3175.4
35°	2783.6	2785.4	2819.0	2946.7	3019.4
37.5°	2583.2	2569.0	2588.6	2726.9	2774.7
40°	2306.6	2310.2	2290.7	2388.2	2381.1
42.5°	1984.0	2012.4	1911.3	2038.9	2030.1
45°	1590.4	1719.8	1593.9	1707.4	1638.2
47.5°	1255.3	1446.8	1342.1	1425.4	1296.1
50°	1017.7	1214.5	1157.8	1195.0	985.7
52.5°	835.0	994.7	1012.4	1021.3	769.5
55°	670.2	815.6	872.3	870.6	601.0
57.5°	494.7	663.1	728.7	755.3	455.7
60°	365.2	551.4	601.0	659.5	342.2
62.5°	294.4	484.0	496.4	578.0	260.6
65°	251.8	446.8	402.5	515.9	202.1
67.5°	223.4	416.7	328.0	461.0	172.0
70°	202.1	370.5	271.2	413.1	161.3
72.5°	196.8	315.6	209.2	368.8	159.5
75°	189.7	267.8	150.7	303.2	157.8
77.5°	163.1	228.7	108.1	234.0	147.1
80°	141.9	182.6	79.8	175.5	129.5
82.5°	109.9	138.3	70.9	132.9	104.6
85°	70.9	104.6	74.5	95.7	72.7
87.5°	33.7	58.5	53.2	51.4	37.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)