

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: P234154

Luminaire Tested: **22GR-LD5-85-A19/156-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234154
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-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: 7159.6 lumens
Efficiency: N/A
Efficacy: 88.3 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

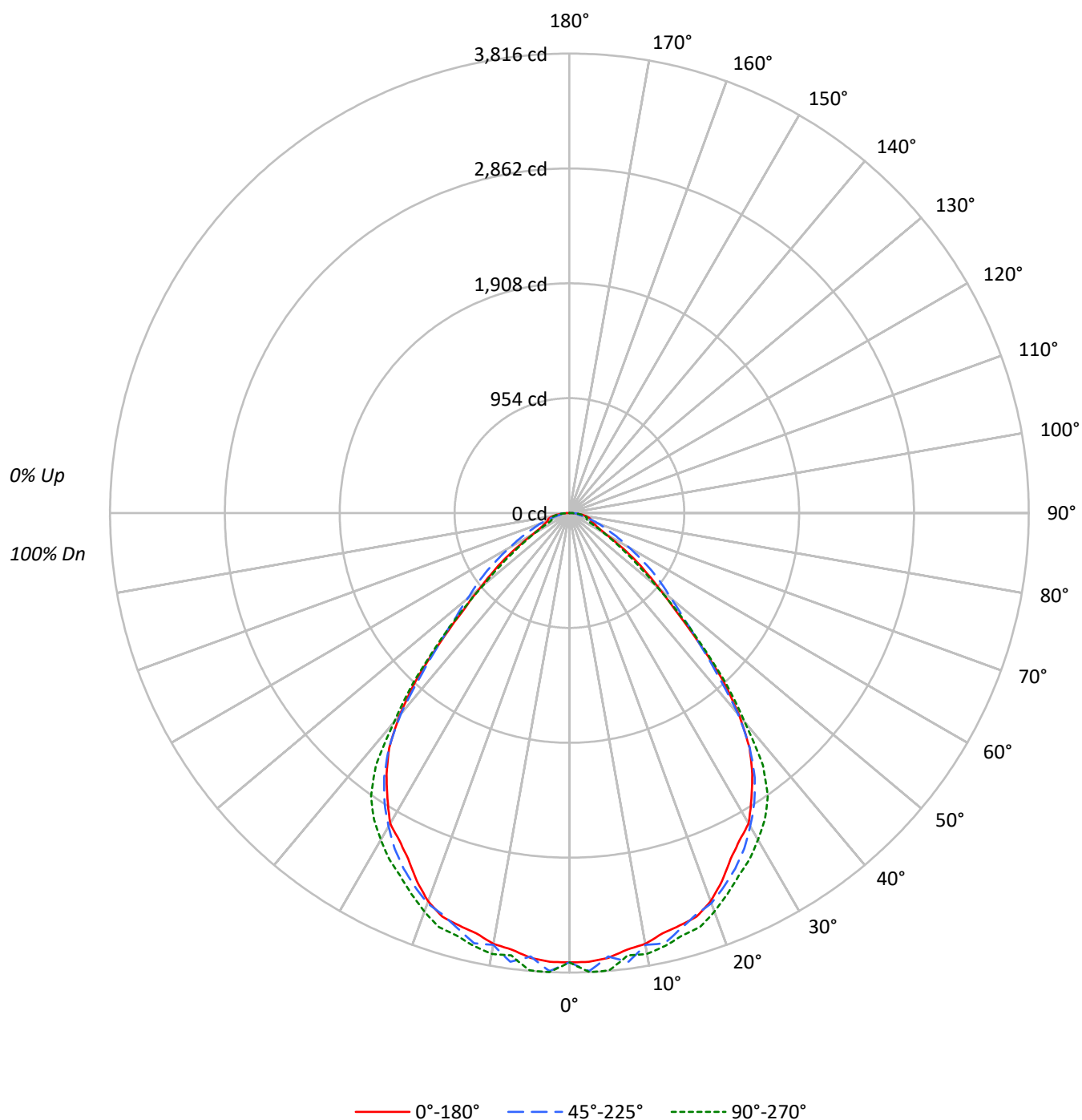
Input Watts (W): 81.06
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	11949	11949	11949
5°	11919	11882	12255
10°	11810	11843	12090
15°	11756	11845	12036
20°	11693	11751	12003
25°	11194	11510	11749
30°	11010	11110	11584
35°	10354	10486	11231
40°	9175	9111	9471
45°	6853	6868	7059
50°	4824	5488	4673
55°	3561	4634	3193
60°	2226	3663	2085
65°	1815	2902	1457
70°	1801	2417	1437
75°	2233	1774	1857
80°	2490	1400	2272
85°	2480	2605	2543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.2	5.0
10°-20°	1011.7	14.1
20°-30°	1498.5	20.9
30°-40°	1678.5	23.4
40°-50°	1233.3	17.2
50°-60°	689.4	9.6
60°-70°	384.2	5.4
70°-80°	225.8	3.2
80°-90°	83.0	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°	2865.4	40.0
0°-40°	4543.9	63.5
0°-60°	6466.6	90.3
0°-90°	7159.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7159.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3731	3731	3731	3731	3731	
5°	3708	3777	3696	3772	3812	351
15°	3546	3568	3573	3627	3630	1001
25°	3168	3193	3257	3303	3325	1468
35°	2648	2650	2682	2804	2873	1641
45°	1513	1636	1516	1624	1559	1182
55°	638	776	830	828	572	569
65°	240	425	383	491	192	248
75°	180	255	143	288	150	181
85°	68	100	71	91	69	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3731.3	3731.3	3731.3	3731.3	3731.3
2.5°	3729.6	3763.4	3807.2	3812.3	3815.7
5°	3707.7	3776.9	3696.0	3771.9	3812.3
7.5°	3657.1	3699.3	3758.4	3682.5	3704.4
10°	3631.8	3642.0	3642.0	3736.4	3717.9
12.5°	3574.5	3642.0	3658.8	3640.3	3680.8
15°	3545.8	3567.7	3572.8	3626.8	3630.2
17.5°	3513.7	3508.7	3496.9	3535.7	3604.8
20°	3431.1	3412.6	3447.9	3495.2	3522.1
22.5°	3309.6	3314.7	3356.9	3395.7	3426.0
25°	3168.0	3193.3	3257.4	3302.9	3324.9
27.5°	3061.7	3098.8	3142.6	3196.6	3240.5
30°	2977.3	2974.0	3004.3	3081.9	3132.5
32.5°	2813.7	2825.5	2857.5	2950.4	3021.2
35°	2648.3	2650.0	2682.1	2803.6	2872.7
37.5°	2457.8	2444.3	2462.8	2594.4	2639.9
40°	2194.6	2198.0	2179.4	2272.2	2265.5
42.5°	1887.6	1914.6	1818.4	1939.9	1931.5
45°	1513.1	1636.2	1516.5	1624.4	1558.6
47.5°	1194.3	1376.5	1277.0	1356.3	1233.1
50°	968.2	1155.5	1101.5	1137.0	937.9
52.5°	794.5	946.3	963.2	971.6	732.1
55°	637.7	776.0	829.9	828.2	571.9
57.5°	470.6	630.9	693.3	718.6	433.5
60°	347.5	524.6	571.9	627.6	325.6
62.5°	280.0	460.5	472.3	549.9	247.9
65°	239.5	425.1	382.9	490.9	192.3
67.5°	212.6	396.4	312.0	438.6	163.6
70°	192.3	352.6	258.1	393.0	153.5
72.5°	187.3	300.3	199.1	350.9	151.8
75°	180.5	254.7	143.4	288.5	150.1
77.5°	155.2	217.6	102.9	222.7	140.0
80°	135.0	173.7	75.9	167.0	123.2
82.5°	104.6	131.6	67.5	126.5	99.5
85°	67.5	99.5	70.9	91.1	69.2
87.5°	32.0	55.7	50.6	49.0	35.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)