

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: P225747

Luminaire Tested: **22GR-LD5-20-A19/156-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225747
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-LD5-20-A19/156-UNV-L935-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1730.6 lumens
Efficiency: N/A
Efficacy: 107.3 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

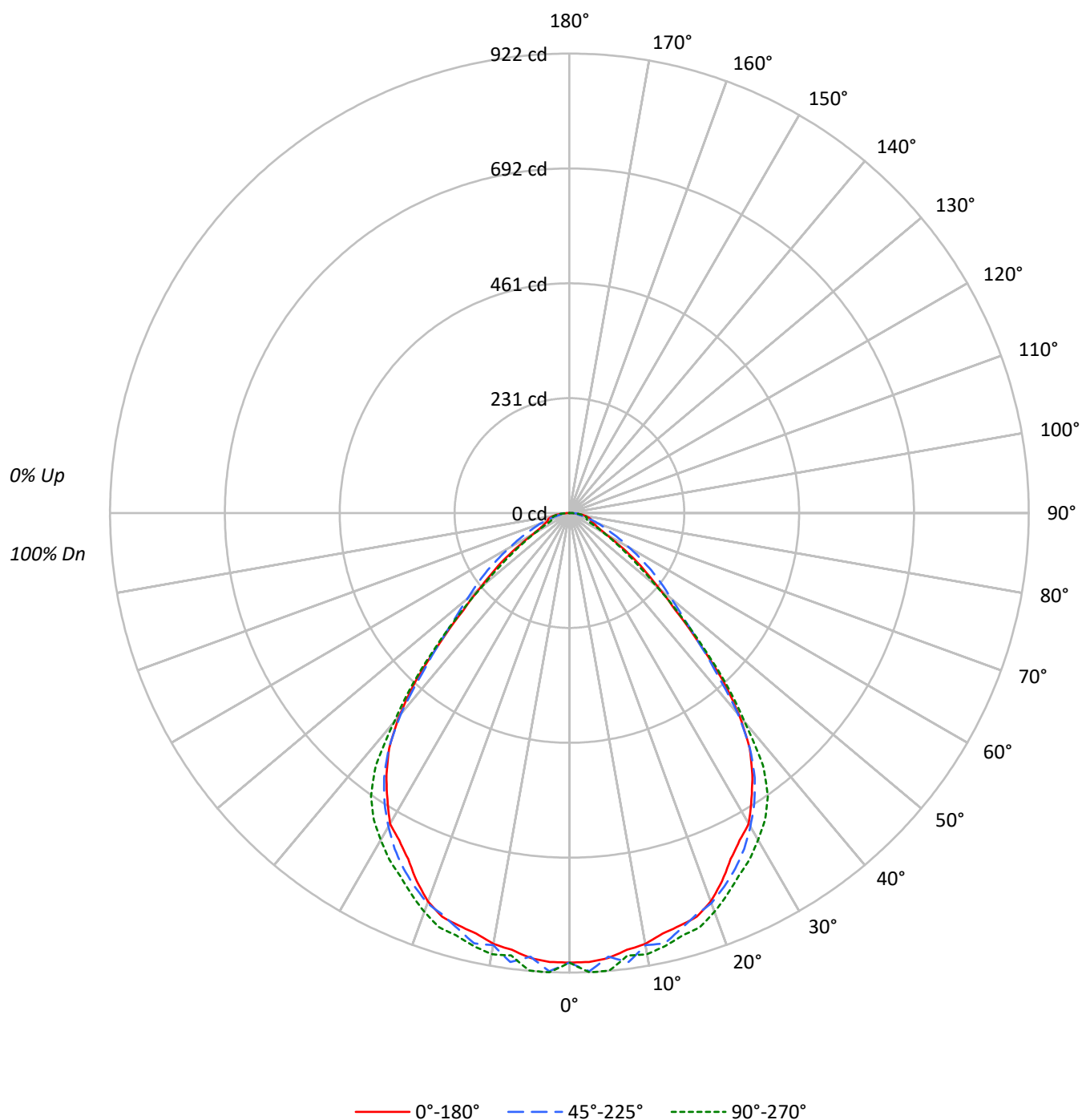
Input Watts (W): 16.13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	2888	2888	2888
5°	2881	2872	2962
10°	2855	2863	2922
15°	2842	2863	2909
20°	2826	2840	2902
25°	2706	2782	2840
30°	2661	2685	2800
35°	2502	2535	2715
40°	2218	2202	2289
45°	1657	1660	1706
50°	1166	1326	1129
55°	860	1120	772
60°	538	885	504
65°	439	702	352
70°	435	584	347
75°	539	429	449
80°	601	339	550
85°	599	628	614



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	5.0
10°-20°	244.6	14.1
20°-30°	362.2	20.9
30°-40°	405.7	23.4
40°-50°	298.1	17.2
50°-60°	166.6	9.6
60°-70°	92.9	5.4
70°-80°	54.6	3.2
80°-90°	20.0	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°	692.6	40.0
0°-40°	1098.3	63.5
0°-60°	1563.1	90.3
0°-90°	1730.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1730.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	902	902	902	902	902	
5°	896	913	893	912	922	85
15°	857	862	864	877	878	242
25°	766	772	787	798	804	355
35°	640	641	648	678	694	397
45°	366	396	367	393	377	286
55°	154	188	201	200	138	137
65°	58	103	93	119	46	60
75°	44	62	35	70	36	44
85°	16	24	17	22	17	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	901.9	901.9	901.9	901.9	901.9
2.5°	901.5	909.7	920.3	921.5	922.3
5°	896.2	913.0	893.4	911.7	921.5
7.5°	884.0	894.2	908.5	890.1	895.4
10°	877.9	880.3	880.3	903.1	898.7
12.5°	864.0	880.3	884.4	879.9	889.7
15°	857.1	862.4	863.6	876.7	877.5
17.5°	849.3	848.1	845.2	854.7	871.3
20°	829.3	824.8	833.4	844.8	851.4
22.5°	800.0	801.2	811.4	820.8	828.2
25°	765.8	771.9	787.4	798.4	803.7
27.5°	740.1	749.0	759.6	772.6	783.3
30°	719.7	718.8	726.2	744.9	757.2
32.5°	680.1	683.0	690.7	713.2	730.3
35°	640.1	640.6	648.3	677.7	694.4
37.5°	594.1	590.8	595.3	627.1	638.1
40°	530.5	531.3	526.8	549.3	547.6
42.5°	456.3	462.8	439.5	468.9	466.9
45°	365.8	395.5	366.6	392.7	376.7
47.5°	288.7	332.7	308.6	327.8	298.1
50°	234.1	279.3	266.2	274.8	226.7
52.5°	192.0	228.7	232.8	234.9	177.0
55°	154.1	187.6	200.6	200.2	138.2
57.5°	113.7	152.5	167.6	173.7	104.8
60°	84.0	126.8	138.2	151.7	78.7
62.5°	67.7	111.4	114.2	132.9	59.9
65°	57.9	102.8	92.6	118.7	46.5
67.5°	51.3	95.8	75.4	106.0	39.5
70°	46.5	85.3	62.4	95.0	37.1
72.5°	45.2	72.6	48.1	84.8	36.7
75°	43.6	61.5	34.7	69.7	36.3
77.5°	37.5	52.6	24.9	53.8	33.8
80°	32.6	42.0	18.4	40.4	29.8
82.5°	25.2	31.8	16.3	30.6	24.1
85°	16.3	24.1	17.1	22.0	16.7
87.5°	7.7	13.4	12.2	11.8	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)