

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: P225761

Luminaire Tested: **22GR-LD5-20-A19/156-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225761
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-L950-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: 1884.6 lumens
Efficiency: N/A
Efficacy: 116.8 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

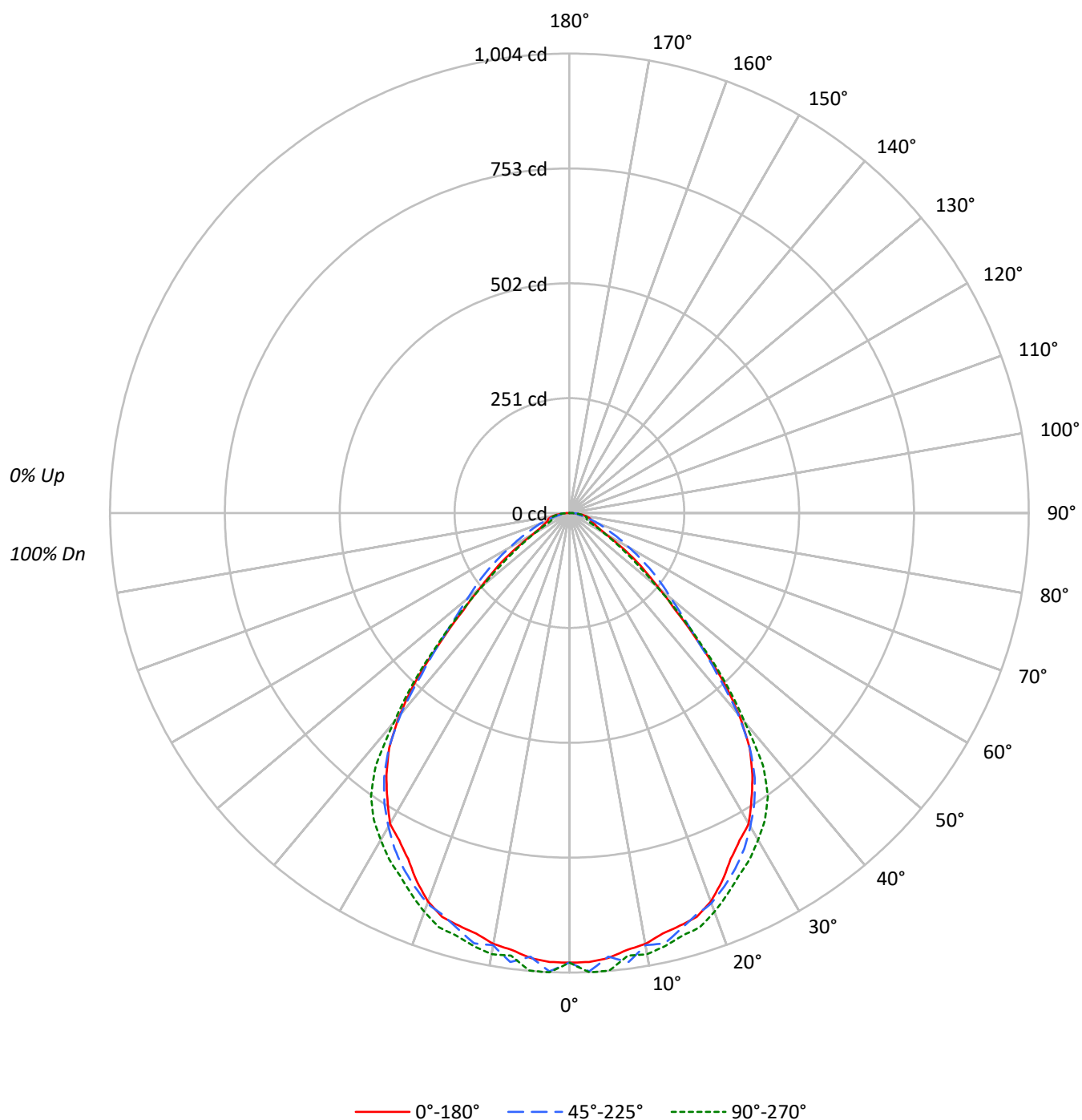
Input Watts (W): 16.13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	3145	3145	3145
5°	3138	3128	3226
10°	3109	3118	3182
15°	3095	3118	3168
20°	3078	3093	3160
25°	2947	3030	3093
30°	2898	2924	3049
35°	2726	2760	2956
40°	2415	2398	2493
45°	1804	1808	1858
50°	1270	1444	1230
55°	937	1220	840
60°	586	964	549
65°	478	764	383
70°	474	637	378
75°	588	468	489
80°	655	369	598
85°	650	687	669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.5	5.0
10°-20°	266.3	14.1
20°-30°	394.4	20.9
30°-40°	441.8	23.4
40°-50°	324.7	17.2
50°-60°	181.5	9.6
60°-70°	101.1	5.4
70°-80°	59.4	3.2
80°-90°	21.8	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°	754.3	40.0
0°-40°	1196.1	63.5
0°-60°	1702.2	90.3
0°-90°	1884.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1884.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	982	982	982	982	982	
5°	976	994	973	993	1004	92
15°	933	939	940	955	956	264
25°	834	841	857	869	875	386
35°	697	698	706	738	756	432
45°	398	431	399	428	410	311
55°	168	204	218	218	150	150
65°	63	112	101	129	51	65
75°	48	67	38	76	40	48
85°	18	26	19	24	18	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	982.2	982.2	982.2	982.2	982.2
2.5°	981.8	990.6	1002.2	1003.5	1004.4
5°	976.0	994.2	972.9	992.9	1003.5
7.5°	962.7	973.8	989.4	969.3	975.1
10°	956.0	958.7	958.7	983.5	978.6
12.5°	940.9	958.7	963.1	958.2	968.9
15°	933.4	939.1	940.5	954.7	955.6
17.5°	924.9	923.6	920.5	930.7	948.9
20°	903.2	898.3	907.6	920.0	927.1
22.5°	871.2	872.5	883.6	893.8	901.8
25°	833.9	840.6	857.4	869.4	875.2
27.5°	805.9	815.7	827.3	841.5	853.0
30°	783.7	782.9	790.8	811.3	824.6
32.5°	740.6	743.7	752.2	776.6	795.2
35°	697.2	697.6	706.0	738.0	756.2
37.5°	646.9	643.4	648.3	683.0	694.9
40°	577.7	578.6	573.7	598.1	596.3
42.5°	496.9	504.0	478.7	510.6	508.4
45°	398.3	430.7	399.2	427.6	410.3
47.5°	314.4	362.4	336.2	357.0	324.6
50°	254.9	304.1	289.9	299.3	246.9
52.5°	209.1	249.1	253.5	255.8	192.7
55°	167.8	204.3	218.5	218.0	150.5
57.5°	123.9	166.1	182.5	189.2	114.1
60°	91.5	138.1	150.5	165.2	85.7
62.5°	73.7	121.2	124.3	144.8	65.2
65°	63.1	111.9	100.8	129.2	50.6
67.5°	56.0	104.4	82.2	115.5	43.0
70°	50.6	92.8	68.0	103.5	40.4
72.5°	49.3	79.1	52.4	92.4	39.9
75°	47.5	67.1	37.8	75.9	39.5
77.5°	40.9	57.2	27.1	58.6	36.9
80°	35.5	45.8	20.0	44.0	32.4
82.5°	27.6	34.7	17.7	33.3	26.2
85°	17.7	26.2	18.7	23.9	18.2
87.5°	8.5	14.7	13.3	12.9	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)