

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: P225741

Luminaire Tested: **22GR-LD5-24-A19/156-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225741
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-LD5-24-A19/156-UNV-L930-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: 1951.6 lumens
Efficiency: N/A
Efficacy: 101.5 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

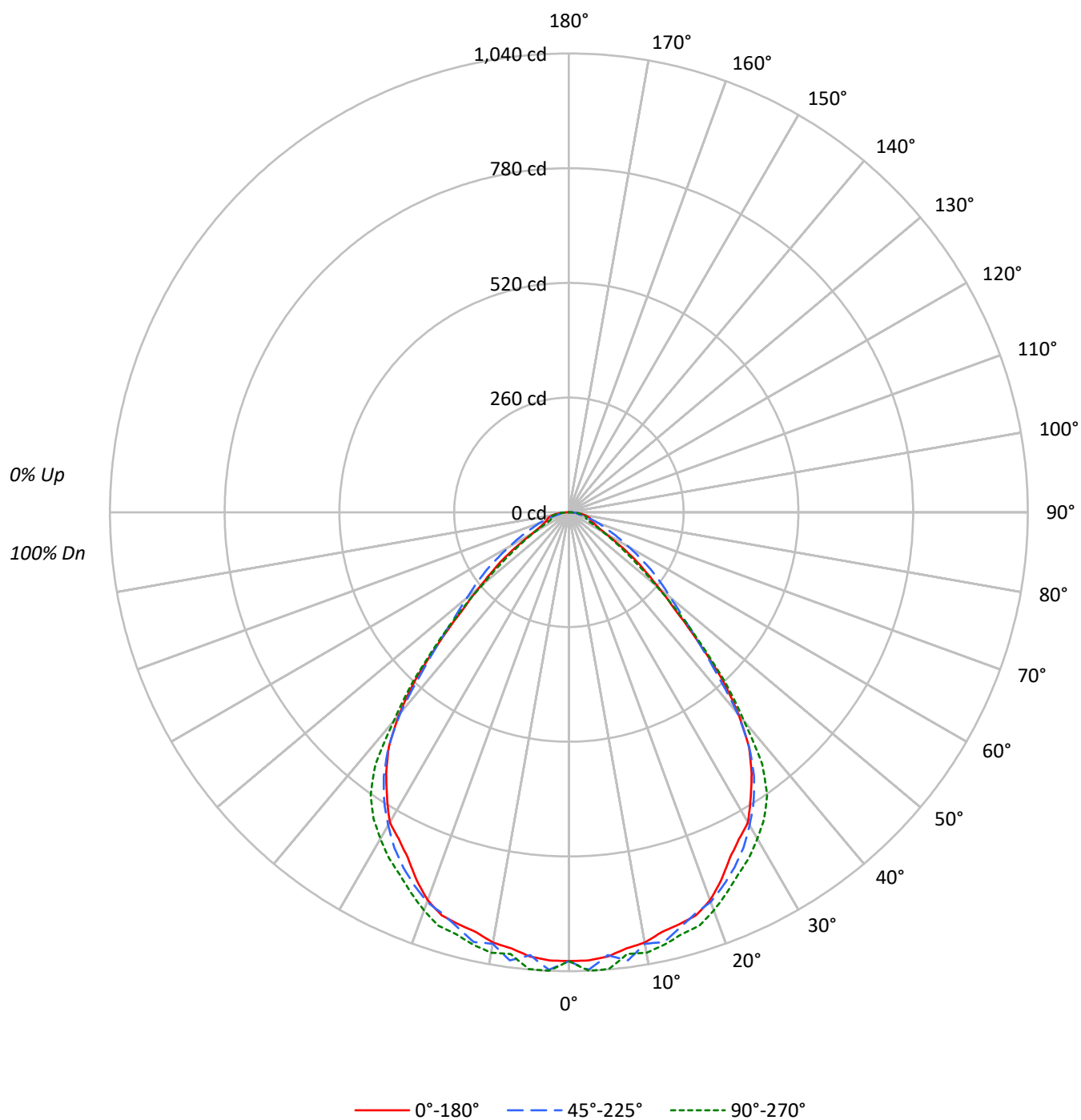
Input Watts (W): 19.219
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3257	3257	3257
5°	3249	3239	3341
10°	3219	3228	3295
15°	3204	3229	3281
20°	3188	3203	3272
25°	3051	3137	3202
30°	3001	3028	3158
35°	2822	2858	3062
40°	2501	2484	2581
45°	1868	1872	1924
50°	1315	1496	1274
55°	970	1263	870
60°	607	999	568
65°	495	791	397
70°	491	659	391
75°	609	484	506
80°	679	382	618
85°	676	713	694



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	5.0
10°-20°	275.8	14.1
20°-30°	408.5	20.9
30°-40°	457.5	23.4
40°-50°	336.2	17.2
50°-60°	187.9	9.6
60°-70°	104.7	5.4
70°-80°	61.5	3.2
80°-90°	22.6	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°	781.1	40.0
0°-40°	1238.6	63.5
0°-60°	1762.7	90.3
0°-90°	1951.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1951.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1017	1017	1017	1017	1017	
5°	1011	1030	1008	1028	1039	96
15°	966	972	974	989	990	273
25°	864	870	888	900	906	400
35°	722	722	731	764	783	447
45°	412	446	413	443	425	322
55°	174	212	226	226	156	155
65°	65	116	104	134	52	68
75°	49	70	39	79	41	49
85°	18	27	19	25	19	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1017.1	1017.1	1017.1	1017.1	1017.1
2.5°	1016.6	1025.8	1037.8	1039.2	1040.1
5°	1010.6	1029.5	1007.5	1028.1	1039.2
7.5°	996.9	1008.4	1024.5	1003.8	1009.7
10°	990.0	992.8	992.8	1018.5	1013.4
12.5°	974.3	992.8	997.4	992.3	1003.4
15°	966.5	972.5	973.9	988.6	989.5
17.5°	957.8	956.4	953.2	963.7	982.6
20°	935.3	930.2	939.9	952.8	960.1
22.5°	902.2	903.6	915.0	925.6	933.9
25°	863.5	870.4	887.9	900.4	906.3
27.5°	834.6	844.7	856.7	871.3	883.3
30°	811.6	810.7	818.9	840.1	853.9
32.5°	766.9	770.2	778.9	804.3	823.5
35°	721.9	722.3	731.1	764.2	783.1
37.5°	669.9	666.2	671.3	707.2	719.6
40°	598.2	599.2	594.1	619.3	617.5
42.5°	514.6	521.9	495.7	528.8	526.5
45°	412.5	446.0	413.4	442.8	424.8
47.5°	325.5	375.2	348.1	369.7	336.1
50°	264.0	315.0	300.3	309.9	255.7
52.5°	216.6	258.0	262.6	264.9	199.6
55°	173.8	211.5	226.2	225.7	155.9
57.5°	128.3	172.0	189.0	195.9	118.2
60°	94.7	143.0	155.9	171.1	88.7
62.5°	76.3	125.5	128.7	149.9	67.6
65°	65.3	115.9	104.4	133.8	52.4
67.5°	58.0	108.1	85.0	119.6	44.6
70°	52.4	96.1	70.4	107.2	41.8
72.5°	51.0	81.8	54.3	95.6	41.4
75°	49.2	69.5	39.1	78.6	40.9
77.5°	42.3	59.3	28.0	60.7	38.1
80°	36.8	47.4	20.7	45.5	33.5
82.5°	28.5	35.8	18.4	34.5	27.1
85°	18.4	27.1	19.4	24.8	18.9
87.5°	8.8	15.2	13.8	13.4	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)