

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: P225755

Luminaire Tested: **22GR-LD5-24-A19/156-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225755
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-L940-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: 2117.3 lumens
Efficiency: N/A
Efficacy: 110.2 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

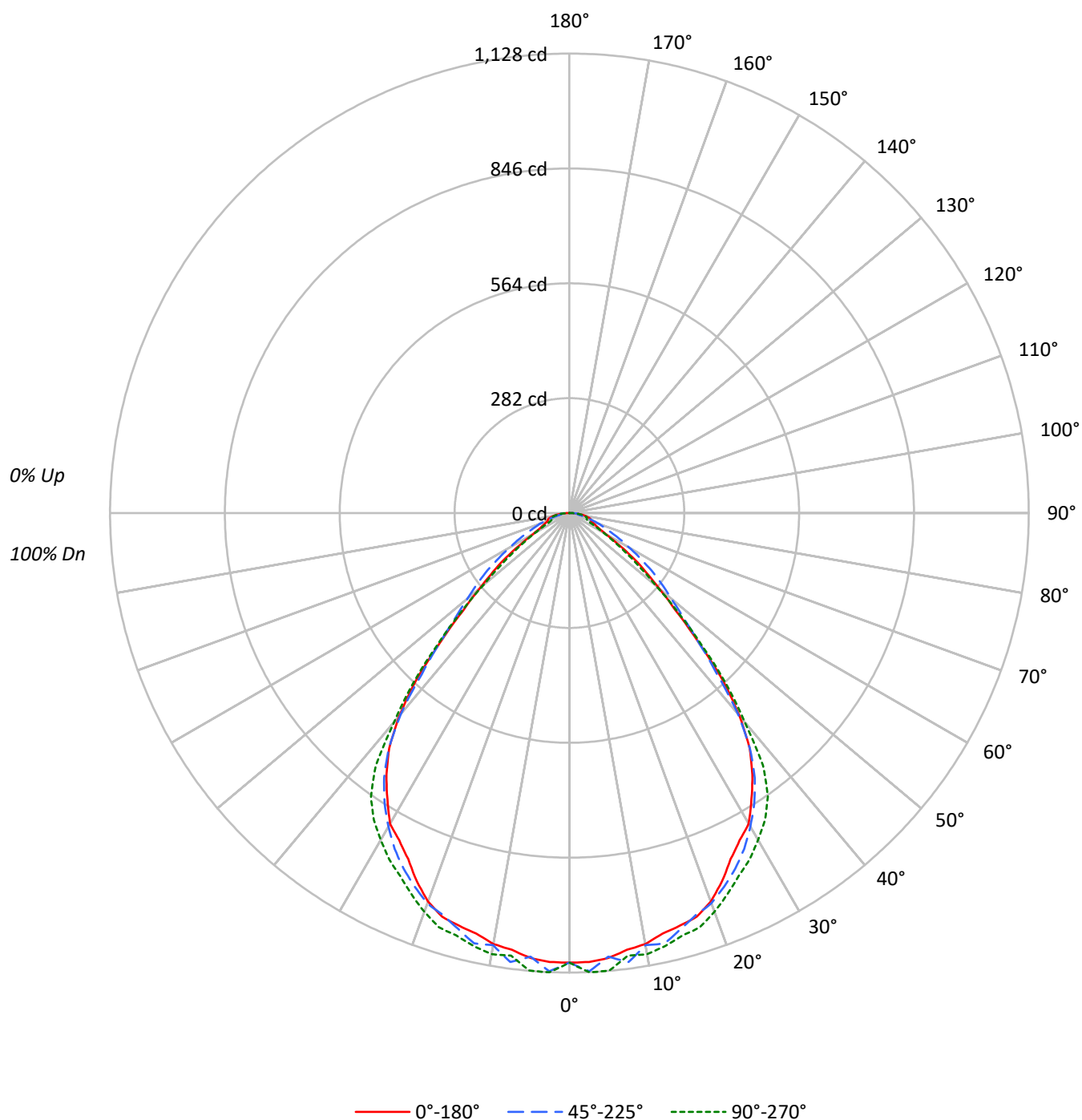
Input Watts (W): 19.219
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	111	107	103	100	108	105	102	99	101	98	96		97	95	93		88
2	103	96	90	85	100	94	89	85	91	86	83		88	84	81		77
3	95	86	79	74	93	85	79	73	82	77	72		79	75	71		68
4	88	78	71	65	86	77	70	64	75	68	64		72	67	63		60
5	82	71	63	58	80	70	63	57	68	62	57		66	61	56		54
6	77	65	57	51	75	64	57	51	62	56	51		61	55	50		48
7	72	60	52	46	70	59	51	46	57	51	46		56	50	46		44
8	67	55	47	42	66	54	47	42	53	46	42		52	46	41		40
9	63	51	43	38	62	50	43	38	49	43	38		48	42	38		36
10	59	47	40	35	58	47	40	35	46	39	35		45	39	35		33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3534	3534	3534
5°	3525	3514	3625
10°	3493	3503	3575
15°	3477	3503	3559
20°	3458	3475	3550
25°	3311	3404	3474
30°	3256	3286	3426
35°	3062	3101	3322
40°	2713	2695	2801
45°	2027	2031	2088
50°	1427	1623	1382
55°	1053	1370	944
60°	658	1083	617
65°	537	859	430
70°	532	715	425
75°	661	525	549
80°	736	413	671
85°	735	772	753



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	5.0
10°-20°	299.2	14.1
20°-30°	443.1	20.9
30°-40°	496.4	23.4
40°-50°	364.7	17.2
50°-60°	203.9	9.6
60°-70°	113.6	5.4
70°-80°	66.8	3.2
80°-90°	24.5	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°	847.4	40.0
0°-40°	1343.8	63.5
0°-60°	1912.4	90.3
0°-90°	2117.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2117.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1104	1104	1104	1104	1104	
5°	1096	1117	1093	1115	1128	104
15°	1049	1055	1057	1073	1074	296
25°	937	944	963	977	983	434
35°	783	784	793	829	850	485
45°	448	484	448	480	461	350
55°	189	229	245	245	169	168
65°	71	126	113	145	57	73
75°	53	75	42	85	44	54
85°	20	29	21	27	20	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1103.5	1103.5	1103.5	1103.5	1103.5
2.5°	1103.0	1112.9	1125.9	1127.5	1128.4
5°	1096.5	1117.0	1093.0	1115.4	1127.5
7.5°	1081.5	1094.0	1111.5	1089.0	1095.5
10°	1074.1	1077.1	1077.1	1105.0	1099.5
12.5°	1057.1	1077.1	1082.1	1076.5	1088.5
15°	1048.6	1055.1	1056.6	1072.6	1073.5
17.5°	1039.1	1037.7	1034.2	1045.6	1066.1
20°	1014.7	1009.2	1019.7	1033.6	1041.6
22.5°	978.8	980.2	992.7	1004.2	1013.2
25°	936.9	944.4	963.3	976.8	983.2
27.5°	905.4	916.4	929.4	945.3	958.3
30°	880.5	879.5	888.5	911.4	926.4
32.5°	832.1	835.6	845.0	872.6	893.5
35°	783.2	783.7	793.2	829.1	849.6
37.5°	726.9	722.8	728.3	767.3	780.7
40°	649.0	650.0	644.6	672.0	669.9
42.5°	558.2	566.2	537.8	573.7	571.2
45°	447.5	483.9	448.5	480.4	461.0
47.5°	353.2	407.0	377.6	401.1	364.6
50°	286.4	341.8	325.8	336.3	277.4
52.5°	235.0	279.8	284.8	287.3	216.5
55°	188.6	229.4	245.4	244.9	169.1
57.5°	139.1	186.5	205.0	212.5	128.2
60°	102.8	155.1	169.1	185.6	96.3
62.5°	82.8	136.2	139.7	162.6	73.4
65°	70.9	125.7	113.3	145.2	56.8
67.5°	62.9	117.2	92.3	129.7	48.4
70°	56.8	104.2	76.4	116.3	45.4
72.5°	55.4	88.8	58.8	103.8	44.9
75°	53.4	75.3	42.4	85.3	44.4
77.5°	45.9	64.3	30.4	65.9	41.4
80°	39.9	51.3	22.4	49.4	36.4
82.5°	31.0	38.9	20.0	37.4	29.4
85°	20.0	29.4	21.0	26.9	20.5
87.5°	9.5	16.4	15.0	14.4	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)