

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: P225742

Luminaire Tested: **22GR-LD5-28-A19/156-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225742
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-LD5-28-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: 2300.1 lumens
Efficiency: N/A
Efficacy: 100.1 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

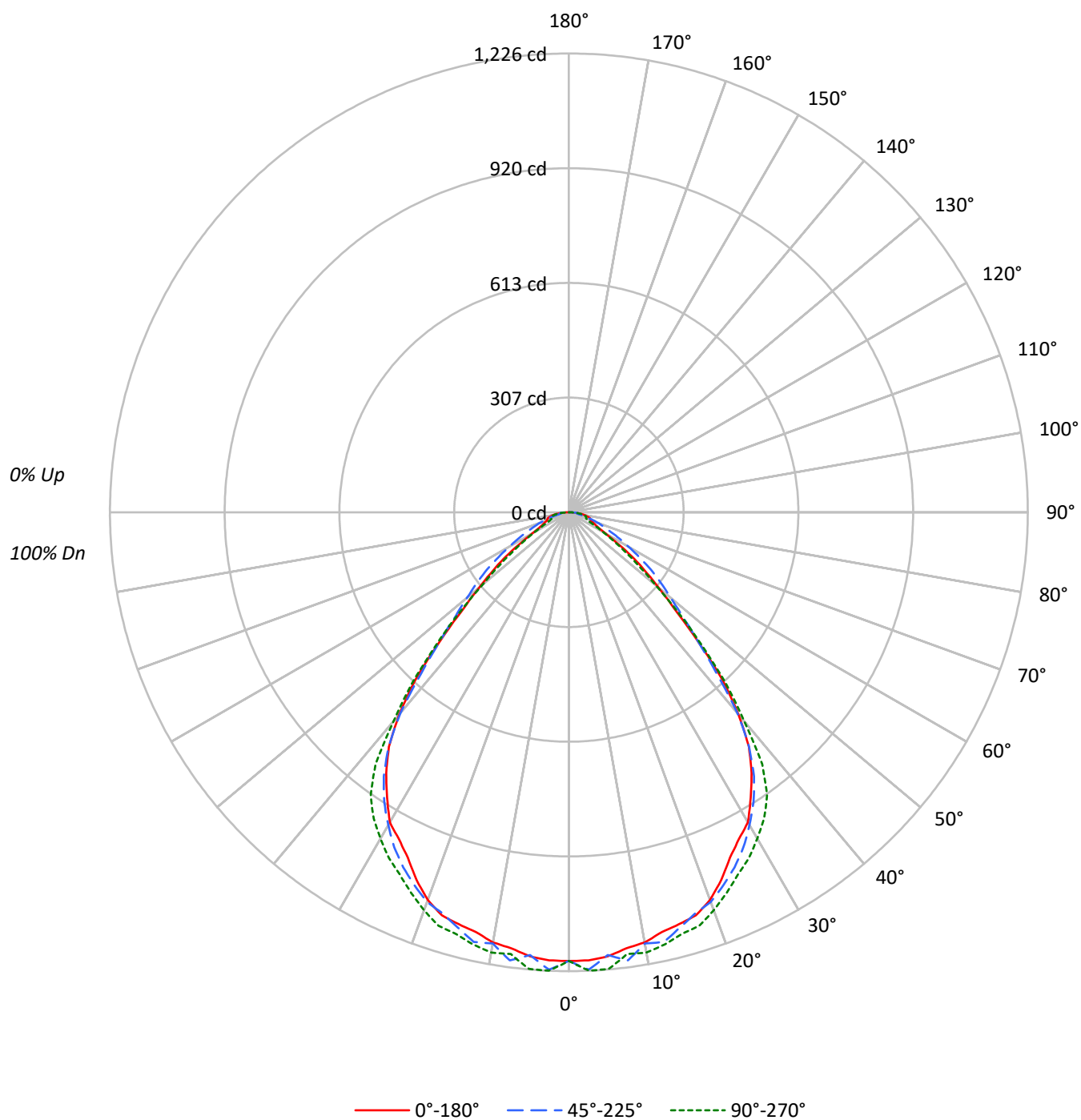
Input Watts (W): 22.986
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3839	3839	3839
5°	3829	3817	3937
10°	3794	3805	3884
15°	3777	3805	3866
20°	3756	3775	3856
25°	3596	3698	3774
30°	3537	3569	3722
35°	3326	3369	3608
40°	2947	2927	3043
45°	2202	2207	2268
50°	1550	1763	1501
55°	1143	1489	1026
60°	715	1177	670
65°	583	932	468
70°	578	776	462
75°	718	570	596
80°	800	450	728
85°	794	838	816



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.1	5.0
10°-20°	325.0	14.1
20°-30°	481.4	20.9
30°-40°	539.2	23.4
40°-50°	396.2	17.2
50°-60°	221.5	9.6
60°-70°	123.4	5.4
70°-80°	72.5	3.2
80°-90°	26.6	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°	920.6	40.0
0°-40°	1459.8	63.5
0°-60°	2077.5	90.3
0°-90°	2300.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2300.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1199	1199	1199	1199	1199	
5°	1191	1213	1187	1212	1225	113
15°	1139	1146	1148	1165	1166	322
25°	1018	1026	1046	1061	1068	472
35°	851	851	862	901	923	527
45°	486	526	487	522	501	380
55°	205	249	267	266	184	183
65°	77	136	123	158	62	80
75°	58	82	46	93	48	58
85°	22	32	23	29	22	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1198.8	1198.8	1198.8	1198.8	1198.8
2.5°	1198.2	1209.0	1223.1	1224.8	1225.8
5°	1191.1	1213.4	1187.4	1211.7	1224.8
7.5°	1174.9	1188.4	1207.4	1183.0	1190.1
10°	1166.8	1170.1	1170.1	1200.4	1194.4
12.5°	1148.3	1170.1	1175.5	1169.5	1182.5
15°	1139.1	1146.2	1147.8	1165.1	1166.2
17.5°	1128.8	1127.3	1123.4	1135.9	1158.1
20°	1102.2	1096.3	1107.7	1122.9	1131.5
22.5°	1063.3	1064.9	1078.5	1090.9	1100.7
25°	1017.8	1025.9	1046.5	1061.1	1068.1
27.5°	983.6	995.6	1009.6	1027.0	1041.1
30°	956.5	955.4	965.1	990.1	1006.4
32.5°	904.0	907.7	918.0	947.8	970.6
35°	850.8	851.4	861.7	900.7	922.9
37.5°	789.6	785.2	791.2	833.4	848.1
40°	705.0	706.1	700.2	730.0	727.8
42.5°	606.4	615.1	584.2	623.2	620.5
45°	486.1	525.7	487.2	521.8	500.8
47.5°	383.7	442.2	410.2	435.7	396.1
50°	311.1	371.2	353.9	365.2	301.3
52.5°	255.3	304.1	309.5	312.2	235.2
55°	204.8	249.3	266.7	266.1	183.7
57.5°	151.2	202.7	222.7	230.8	139.2
60°	111.6	168.5	183.7	201.6	104.6
62.5°	90.0	147.9	151.7	176.7	79.7
65°	76.9	136.5	123.0	157.7	61.7
67.5°	68.3	127.3	100.3	140.9	52.6
70°	61.7	113.2	82.9	126.3	49.3
72.5°	60.2	96.4	64.0	112.8	48.8
75°	58.0	81.8	46.1	92.7	48.2
77.5°	49.9	69.9	33.0	71.5	45.0
80°	43.4	55.8	24.4	53.6	39.5
82.5°	33.6	42.2	21.6	40.7	32.0
85°	21.6	32.0	22.8	29.3	22.2
87.5°	10.3	17.9	16.2	15.7	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)