

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: P225749

Luminaire Tested: **22GR-LD5-28-A19/156-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225749
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-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: 2425.9 lumens
Efficiency: N/A
Efficacy: 105.5 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

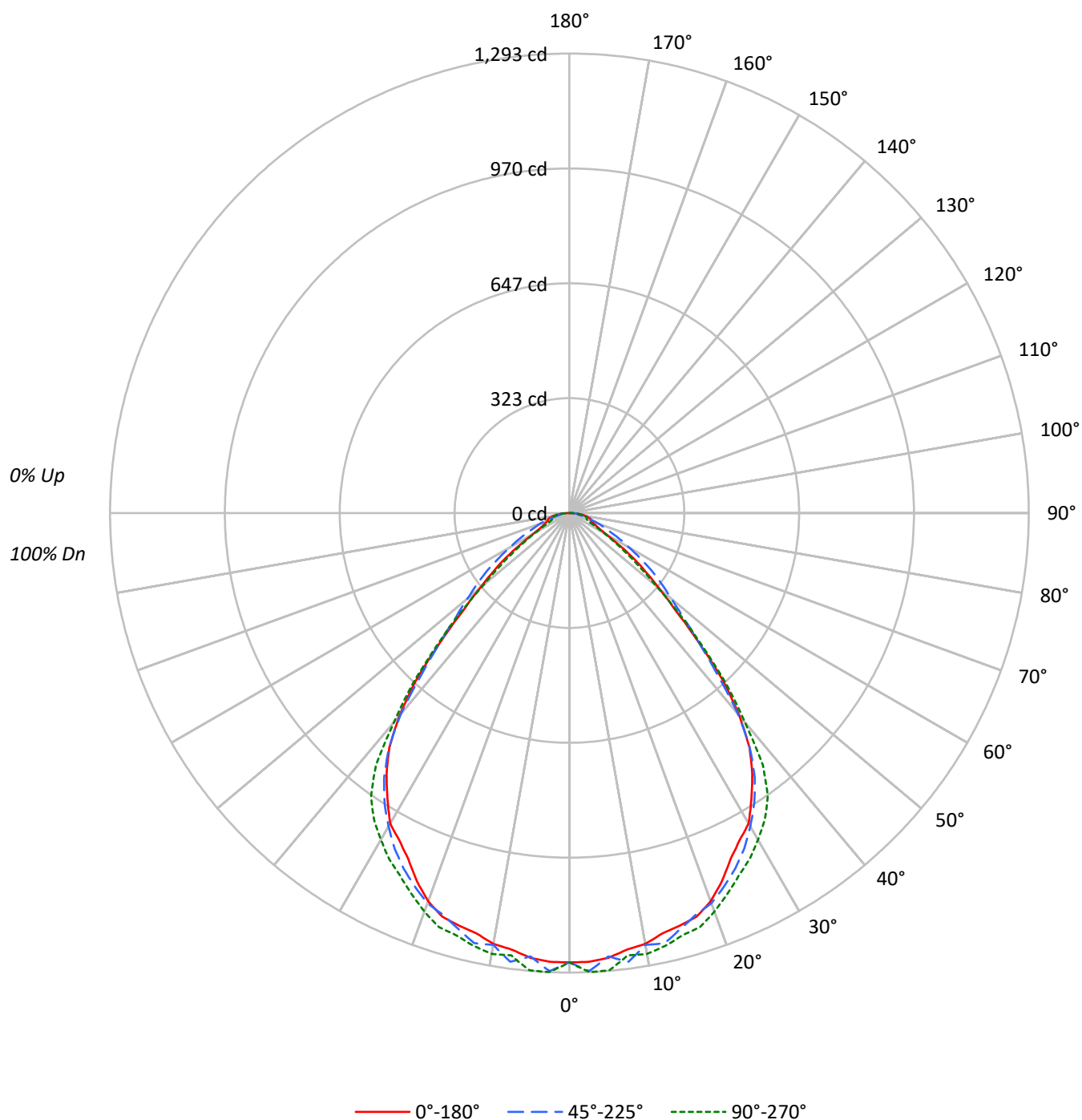
Input Watts (W): 22.986
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	4049	4049	4049
5°	4039	4026	4152
10°	4002	4013	4096
15°	3984	4014	4078
20°	3962	3982	4067
25°	3793	3900	3981
30°	3730	3764	3925
35°	3508	3553	3806
40°	3109	3087	3209
45°	2322	2327	2392
50°	1635	1859	1583
55°	1207	1570	1082
60°	754	1241	706
65°	615	983	494
70°	610	819	487
75°	757	601	629
80°	843	476	769
85°	841	882	863



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.4	5.0
10°-20°	342.8	14.1
20°-30°	507.7	20.9
30°-40°	568.7	23.4
40°-50°	417.9	17.2
50°-60°	233.6	9.6
60°-70°	130.2	5.4
70°-80°	76.5	3.2
80°-90°	28.1	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°	970.9	40.0
0°-40°	1539.6	63.5
0°-60°	2191.1	90.3
0°-90°	2425.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2425.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1264	1264	1264	1264	1264	
5°	1256	1280	1252	1278	1292	119
15°	1202	1209	1211	1229	1230	339
25°	1073	1082	1104	1119	1127	497
35°	897	898	909	950	973	556
45°	513	554	514	550	528	401
55°	216	263	281	281	194	193
65°	81	144	130	166	65	84
75°	61	86	49	98	51	61
85°	23	34	24	31	24	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1264.3	1264.3	1264.3	1264.3	1264.3
2.5°	1263.8	1275.2	1290.0	1291.7	1292.8
5°	1256.3	1279.8	1252.3	1278.1	1291.7
7.5°	1239.1	1253.4	1273.5	1247.7	1255.2
10°	1230.6	1234.0	1234.0	1266.0	1259.7
12.5°	1211.2	1234.0	1239.7	1233.4	1247.2
15°	1201.5	1208.9	1210.6	1228.8	1230.0
17.5°	1190.6	1188.9	1184.9	1198.0	1221.4
20°	1162.5	1156.3	1168.3	1184.3	1193.4
22.5°	1121.4	1123.1	1137.4	1150.6	1160.8
25°	1073.4	1082.0	1103.7	1119.1	1126.6
27.5°	1037.4	1050.0	1064.8	1083.2	1097.9
30°	1008.8	1007.7	1018.0	1044.2	1061.4
32.5°	953.4	957.4	968.2	999.7	1023.7
35°	897.3	897.9	908.8	950.0	973.4
37.5°	832.7	828.2	834.5	879.1	894.5
40°	743.6	744.8	738.5	769.9	767.6
42.5°	639.6	648.7	616.2	657.3	654.4
45°	512.7	554.5	513.8	550.5	528.1
47.5°	404.7	466.4	432.6	459.5	417.8
50°	328.1	391.5	373.2	385.2	317.8
52.5°	269.2	320.6	326.4	329.2	248.0
55°	216.1	262.9	281.2	280.7	193.8
57.5°	159.5	213.8	234.9	243.5	146.9
60°	117.7	177.7	193.8	212.6	110.3
62.5°	94.9	156.1	160.1	186.3	84.0
65°	81.2	144.1	129.7	166.3	65.2
67.5°	72.0	134.3	105.7	148.6	55.4
70°	65.2	119.4	87.5	133.2	52.0
72.5°	63.4	101.7	67.4	118.9	51.4
75°	61.2	86.3	48.6	97.8	50.8
77.5°	52.6	73.7	34.8	75.5	47.4
80°	45.7	58.9	25.8	56.6	41.7
82.5°	35.4	44.5	22.9	42.8	33.7
85°	22.9	33.7	24.0	30.9	23.5
87.5°	10.9	18.9	17.2	16.6	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)