

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: P292625

Luminaire Tested: **22GR-LD5-28-A19/156-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33284)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-A19/156-UNV-L93050-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2235.0 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.21
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

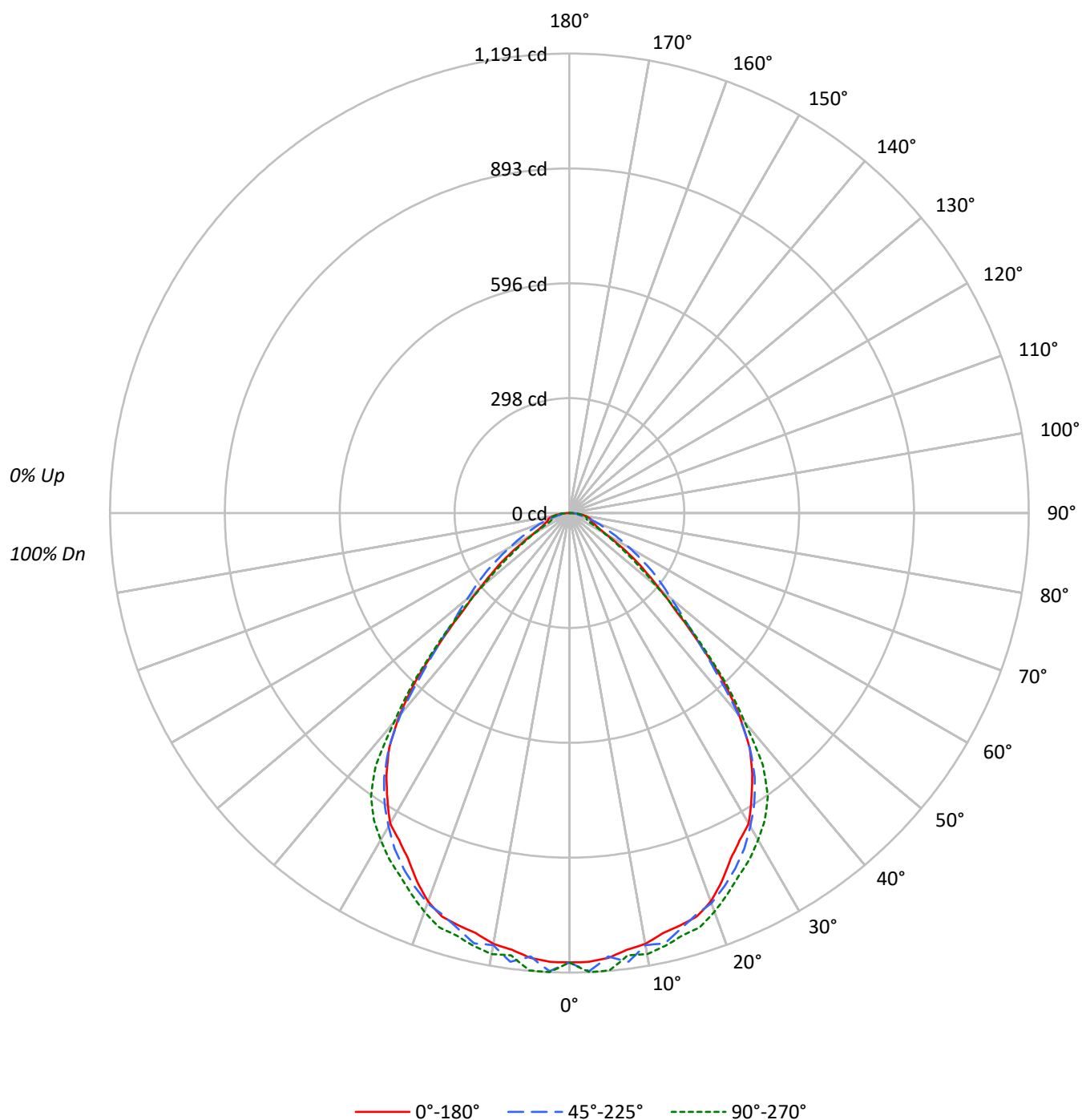
Input Watts (W): 22.506
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3134	3134	3134
5°	3126	3117	3215
10°	3098	3107	3171
15°	3084	3107	3157
20°	3067	3082	3149
25°	2936	3019	3082
30°	2888	2914	3039
35°	2716	2751	2946
40°	2407	2390	2484
45°	1798	1802	1852
50°	1266	1440	1226
55°	934	1216	837
60°	584	961	547
65°	476	761	382
70°	472	634	377
75°	585	466	488
80°	652	367	595
85°	651	682	667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.9	5.0
10°-20°	315.8	14.1
20°-30°	467.8	20.9
30°-40°	524.0	23.4
40°-50°	385.0	17.2
50°-60°	215.2	9.6
60°-70°	119.9	5.4
70°-80°	70.5	3.2
80°-90°	25.9	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°	894.5	40.0
0°-40°	1418.5	63.5
0°-60°	2018.7	90.3
0°-90°	2235.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2235.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1165	1165	1165	1165	1165	
5°	1157	1179	1154	1178	1190	110
15°	1107	1114	1115	1132	1133	313
25°	989	997	1017	1031	1038	458
35°	827	827	837	875	897	512
45°	472	511	473	507	487	369
55°	199	242	259	259	178	178
65°	75	133	120	153	60	77
75°	56	80	45	90	47	57
85°	21	31	22	28	22	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1164.8	1164.8	1164.8	1164.8	1164.8
2.5°	1164.3	1174.8	1188.5	1190.1	1191.1
5°	1157.4	1179.0	1153.8	1177.5	1190.1
7.5°	1141.6	1154.8	1173.2	1149.5	1156.4
10°	1133.8	1136.9	1136.9	1166.4	1160.6
12.5°	1115.8	1136.9	1142.2	1136.4	1149.0
15°	1106.9	1113.7	1115.3	1132.2	1133.2
17.5°	1096.9	1095.3	1091.6	1103.7	1125.3
20°	1071.1	1065.3	1076.4	1091.1	1099.5
22.5°	1033.2	1034.8	1047.9	1060.0	1069.5
25°	988.9	996.8	1016.8	1031.1	1037.9
27.5°	955.8	967.3	981.0	997.9	1011.6
30°	929.4	928.4	937.9	962.1	977.9
32.5°	878.4	882.0	892.0	921.0	943.1
35°	826.7	827.3	837.3	875.2	896.8
37.5°	767.2	763.0	768.8	809.9	824.1
40°	685.1	686.1	680.4	709.3	707.2
42.5°	589.3	597.7	567.7	605.6	602.9
45°	472.4	510.8	473.4	507.1	486.6
47.5°	372.8	429.7	398.6	423.4	384.9
50°	302.3	360.7	343.9	354.9	292.8
52.5°	248.0	295.4	300.7	303.3	228.5
55°	199.1	242.2	259.1	258.6	178.5
57.5°	146.9	196.9	216.4	224.3	135.3
60°	108.5	163.8	178.5	195.9	101.6
62.5°	87.4	143.8	147.4	171.7	77.4
65°	74.8	132.7	119.5	153.2	60.0
67.5°	66.4	123.7	97.4	136.9	51.1
70°	60.0	110.1	80.6	122.7	47.9
72.5°	58.5	93.7	62.1	109.5	47.4
75°	56.3	79.5	44.8	90.0	46.9
77.5°	48.4	67.9	32.1	69.5	43.7
80°	42.1	54.2	23.7	52.1	38.4
82.5°	32.6	41.1	21.1	39.5	31.1
85°	21.1	31.1	22.1	28.4	21.6
87.5°	10.0	17.4	15.8	15.3	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)