

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: P292283

Luminaire Tested: **22GR-LD5-28-A-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-A-UNV-L92765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2743.0 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

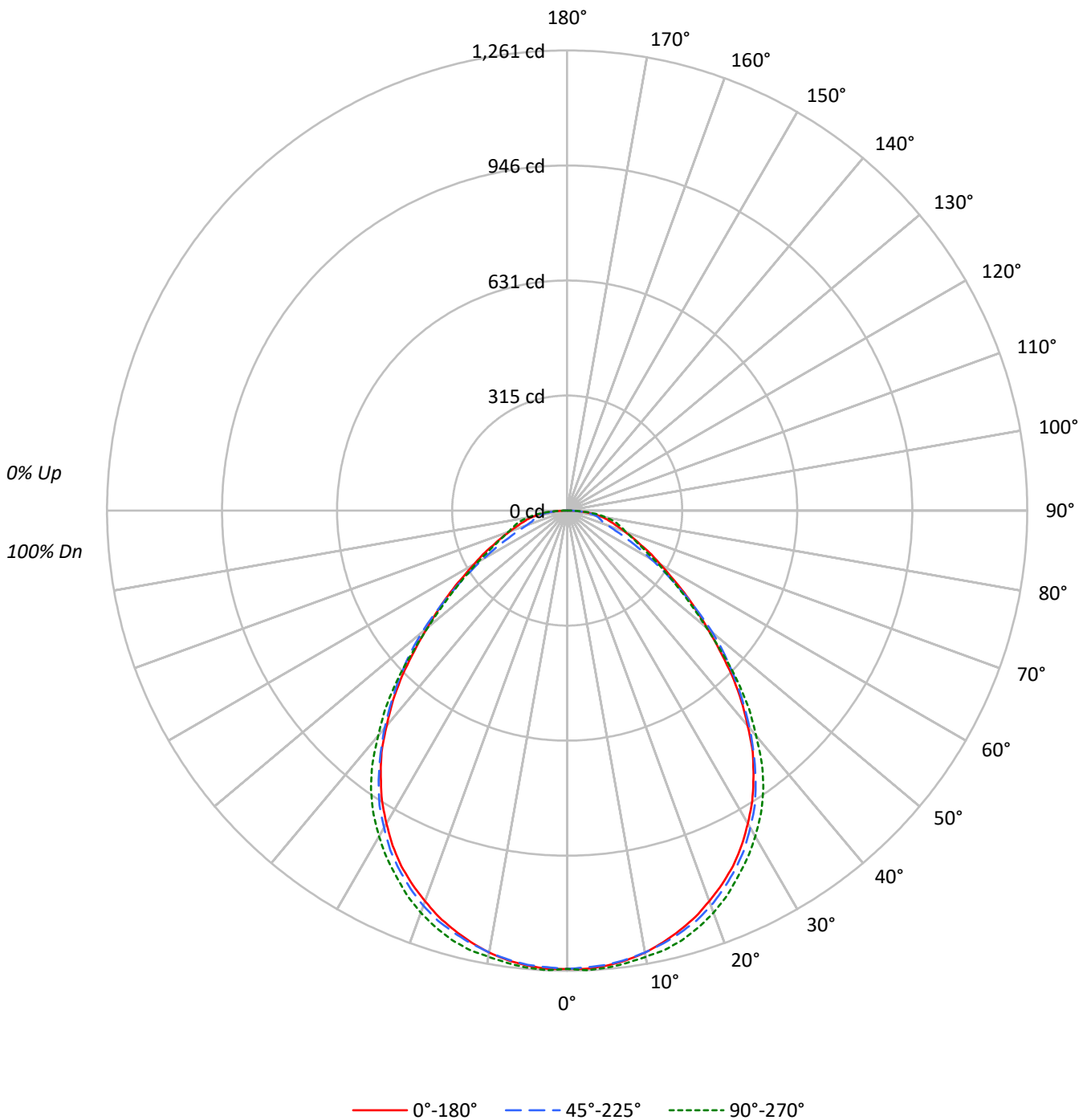
Input Watts (W): 22.692
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292283

CATALOG NUMBER: 22GR-LD5-28-A-UNV-L92765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P292283

CATALOG NUMBER: 22GR-LD5-28-A-UNV-L92765-W2A1-U-5700K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3380	3380	3380
5°	3381	3376	3397
10°	3361	3359	3392
15°	3318	3336	3395
20°	3261	3300	3358
25°	3192	3227	3286
30°	3076	3118	3203
35°	2925	2959	3078
40°	2704	2733	2830
45°	2429	2473	2512
50°	2100	2175	2079
55°	1833	1785	1761
60°	1587	1429	1525
65°	1419	1122	1370
70°	1316	929	1351
75°	1314	983	1500
80°	1454	1237	1692
85°	1516	1340	1911



TEST NUMBER: P292283

CATALOG NUMBER: 22GR-LD5-28-A-UNV-L92765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.9	4.3
10°-20°	338.6	12.3
20°-30°	500.7	18.3
30°-40°	565.1	20.6
40°-50°	498.1	18.2
50°-60°	341.7	12.5
60°-70°	201.6	7.4
70°-80°	125.8	4.6
80°-90°	52.5	1.9
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°	958.2	34.9
0°-40°	1523.2	55.5
0°-60°	2363.1	86.1
0°-90°	2743.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2743.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1256	1256	1256	1256	1256	
5°	1252	1249	1250	1254	1258	119
15°	1191	1192	1198	1212	1218	336
25°	1075	1079	1087	1101	1107	494
35°	890	898	901	922	937	555
45°	638	642	650	654	660	490
55°	391	381	380	368	375	350
65°	223	196	176	204	215	224
75°	126	114	94	132	144	136
85°	49	46	43	57	62	53
90°	0	0	0	0	0	



TEST NUMBER: P292283

CATALOG NUMBER: 22GR-LD5-28-A-UNV-L92765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1256.2	1256.2	1256.2	1256.2	1256.2
2.5°	1256.8	1253.6	1252.4	1257.5	1260.7
5°	1251.7	1249.2	1249.8	1254.3	1257.5
7.5°	1242.8	1240.9	1240.9	1247.3	1250.4
10°	1230.0	1229.4	1229.4	1237.0	1241.5
12.5°	1212.2	1212.8	1215.3	1225.6	1233.2
15°	1191.1	1192.4	1197.5	1212.2	1218.5
17.5°	1168.1	1168.1	1178.3	1189.8	1197.5
20°	1138.7	1140.7	1152.2	1164.9	1172.6
22.5°	1108.7	1111.9	1121.5	1136.2	1143.2
25°	1074.9	1078.7	1087.0	1101.1	1106.8
27.5°	1035.3	1040.4	1049.4	1059.6	1071.7
30°	990.0	997.7	1003.4	1017.5	1030.9
32.5°	944.1	951.1	957.5	972.1	987.5
35°	890.4	898.1	900.7	922.4	937.0
37.5°	835.5	838.7	840.0	861.7	877.7
40°	769.8	776.2	778.1	795.3	805.5
42.5°	706.6	709.2	713.0	725.8	737.9
45°	638.3	641.5	649.8	653.6	660.0
47.5°	566.8	576.4	586.0	573.8	574.5
50°	501.7	509.4	519.6	496.6	496.6
52.5°	443.6	447.5	448.1	428.9	432.8
55°	390.6	381.1	380.4	367.7	375.3
57.5°	337.7	324.9	320.4	316.6	325.5
60°	294.9	271.9	265.5	271.3	283.4
62.5°	259.8	230.4	218.3	233.0	243.8
65°	222.8	196.0	176.2	203.6	215.1
67.5°	194.0	168.5	143.0	181.9	190.2
70°	167.2	147.4	118.1	165.3	171.7
72.5°	145.5	130.2	102.1	149.4	157.0
75°	126.4	113.6	94.5	132.1	144.3
77.5°	111.1	97.0	88.1	114.3	128.9
80°	93.8	79.8	79.8	95.7	109.2
82.5°	74.0	62.6	64.5	77.9	87.4
85°	49.1	46.0	43.4	56.8	61.9
87.5°	24.9	25.5	23.0	29.4	30.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)