

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: P292279

Luminaire Tested: **22GR-LD5-28-A-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292279
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-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2569.0 lumens
Efficiency: N/A
Efficacy: 115.1 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

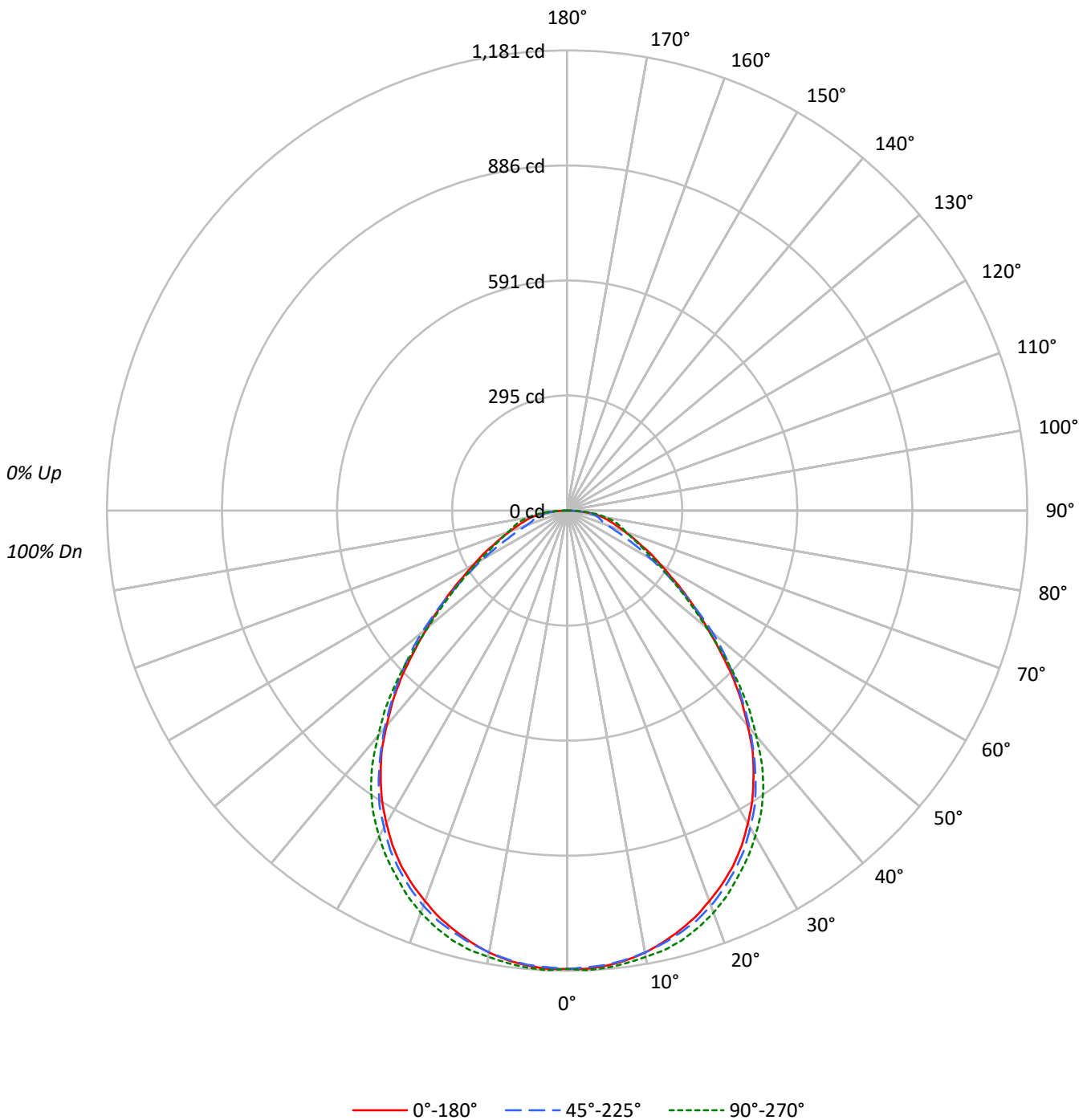
Input Watts (W): 22.32
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292279

CATALOG NUMBER: 22GR-LD5-28-A-UNV-L92765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P292279

CATALOG NUMBER: 22GR-LD5-28-A-UNV-L92765-W2A1-U-4000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3166	3166	3166
5°	3167	3162	3181
10°	3148	3146	3177
15°	3108	3124	3179
20°	3054	3090	3145
25°	2989	3023	3078
30°	2881	2920	3000
35°	2740	2771	2883
40°	2533	2560	2650
45°	2275	2316	2352
50°	1967	2037	1947
55°	1717	1672	1649
60°	1486	1338	1428
65°	1328	1051	1283
70°	1232	870	1265
75°	1231	920	1405
80°	1362	1158	1584
85°	1420	1257	1791



TEST NUMBER: P292279

CATALOG NUMBER: 22GR-LD5-28-A-UNV-L92765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.3	4.3
10°-20°	317.1	12.3
20°-30°	469.0	18.3
30°-40°	529.2	20.6
40°-50°	466.5	18.2
50°-60°	320.0	12.5
60°-70°	188.8	7.4
70°-80°	117.8	4.6
80°-90°	49.1	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°	897.4	34.9
0°-40°	1426.6	55.5
0°-60°	2213.2	86.1
0°-90°	2569.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2569.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1176	1176	1176	1176	1176	
5°	1172	1170	1170	1175	1178	111
15°	1116	1117	1122	1135	1141	314
25°	1007	1010	1018	1031	1037	462
35°	834	841	844	864	878	520
45°	598	601	609	612	618	459
55°	366	357	356	344	352	328
65°	209	184	165	191	202	210
75°	118	106	88	124	135	127
85°	46	43	41	53	58	50
90°	0	0	0	0	0	



TEST NUMBER: P292279

CATALOG NUMBER: 22GR-LD5-28-A-UNV-L92765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1176.5	1176.5	1176.5	1176.5	1176.5
2.5°	1177.1	1174.1	1172.9	1177.7	1180.7
5°	1172.3	1169.9	1170.5	1174.7	1177.7
7.5°	1164.0	1162.2	1162.2	1168.1	1171.1
10°	1152.0	1151.4	1151.4	1158.6	1162.8
12.5°	1135.3	1135.9	1138.2	1147.8	1155.0
15°	1115.5	1116.7	1121.5	1135.3	1141.2
17.5°	1094.0	1094.0	1103.6	1114.3	1121.5
20°	1066.5	1068.3	1079.1	1091.0	1098.2
22.5°	1038.4	1041.4	1050.4	1064.1	1070.7
25°	1006.7	1010.3	1018.1	1031.2	1036.6
27.5°	969.7	974.4	982.8	992.4	1003.7
30°	927.2	934.4	939.8	952.9	965.5
32.5°	884.2	890.8	896.7	910.5	924.8
35°	834.0	841.1	843.5	863.8	877.6
37.5°	782.5	785.5	786.7	807.1	822.0
40°	721.0	726.9	728.7	744.9	754.4
42.5°	661.8	664.2	667.8	679.7	691.1
45°	597.8	600.8	608.6	612.2	618.1
47.5°	530.9	539.8	548.8	537.4	538.0
50°	469.9	477.1	486.6	465.1	465.1
52.5°	415.5	419.1	419.7	401.7	405.3
55°	365.9	356.9	356.3	344.3	351.5
57.5°	316.2	304.3	300.1	296.5	304.9
60°	276.2	254.7	248.7	254.1	265.4
62.5°	243.3	215.8	204.5	218.2	228.4
65°	208.6	183.5	165.0	190.7	201.5
67.5°	181.7	157.8	133.9	170.4	178.2
70°	156.6	138.1	110.6	154.8	160.8
72.5°	136.3	122.0	95.7	139.9	147.1
75°	118.4	106.4	88.5	123.7	135.1
77.5°	104.0	90.9	82.5	107.0	120.8
80°	87.9	74.7	74.7	89.7	102.2
82.5°	69.3	58.6	60.4	72.9	81.9
85°	46.0	43.0	40.7	53.2	58.0
87.5°	23.3	23.9	21.5	27.5	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)