

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: FAILSAFE

Report Number: 104416213CRT-001

Luminaire Tested: **22GAC-4GUV9W-UNV-R1-W**

Issue Date: 11/02/2020

Test Information

Test Method: LM-79-08
Report Number: 104416213CRT-001
The data set was measured in RADIOMETRIC UNITS.
Test Lab: Intertek Cortland
Issue Date: 11/02/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAILSAFE
Catalog Number: 22GAC-4GUV9W-UNV-R1-W
Description: Germicidal Air Disinfection 2x2 Suspended UV 4 LAMP LUMINAIRE
Light Source: (4) 9W Philips TUV PL-S
Ballast/Driver: -

Summary

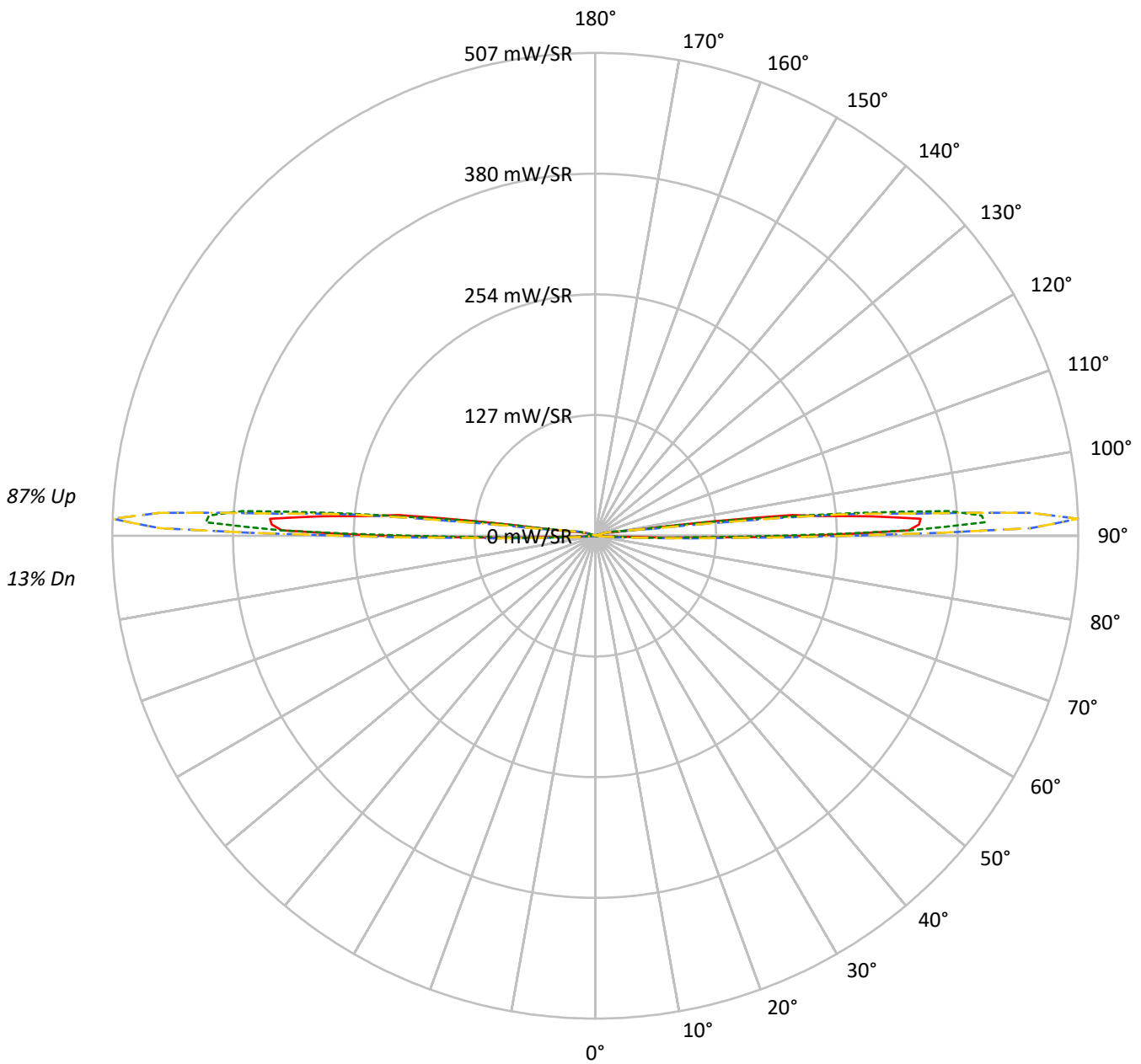
Output per Lamp: N/A
Luminaire UV Output: 298.4 mW
Efficiency: N/A
UV Efficacy: 8.3 UV mW/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular w/ Sides (W: 1.65' x L: 1.65' x H: 0.07')
CIE Type: Semi-Indirect

Input Watts (W): 36.16
Input Voltage (V): NR
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: 6.8 FT



TEST NUMBER: 104416213CRT-001
CATALOG NUMBER: 22GAC-4GUV9W-UNV-R1-W

Intensity Polar Plot



— 0°-180° - - 45°-225° ···· 90°-270° - · - · 135°-315°



TEST NUMBER: 104416213CRT-001
 CATALOG NUMBER: 22GAC-4GUV9W-UNV-R1-W

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	98	98	98	98	86	86	86	86	63	63	63	41	41	41	22	22	22	13
1	85	79	74	69	73	68	64	60	48	45	42	29	27	25	12	11	10	2
2	77	68	61	55	66	59	53	48	41	37	34	25	22	20	10	9	7	0
3	70	60	52	46	60	52	45	40	36	32	28	22	19	17	9	7	6	0
4	64	53	44	38	55	46	39	33	32	27	24	20	17	14	8	6	5	0
5	58	47	38	32	50	40	33	28	29	24	20	18	14	12	7	6	4	0
6	54	42	33	28	46	36	29	24	26	21	17	16	13	10	7	5	4	0
7	49	37	29	24	43	32	26	21	23	18	15	14	11	9	6	4	3	0
8	46	34	26	21	39	29	23	18	21	16	13	13	10	8	6	4	3	0
9	42	30	23	18	37	26	20	16	19	14	11	12	9	7	5	4	2	0
10	39	28	21	16	34	24	18	14	17	13	10	11	8	6	5	3	2	0

AVERAGE LUMINANCE (mW/SR/sqm):

	0°	90°	180°	270°
0°	0	0	0	0
5°	0	0	0	0
10°	0	0	0	0
15°	0	0	0	0
20°	0	0	0	0
25°	0	0	0	0
30°	0	0	0	0
35°	0	0	0	0
40°	0	0	0	0
45°	0	0	0	0
50°	0	0	0	0
55°	0	0	0	0
60°	0	0	0	0
65°	0	0	0	0
70°	0	0	0	0
75°	0	0	0	0
80°	0	0	0	0
85°	214	214	214	214



TEST NUMBER: 104416213CRT-001
 CATALOG NUMBER: 22GAC-4GUV9W-UNV-R1-W

ZONAL OUTPUT:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	37.9	12.7
90°-100°	246.7	82.7
100°-110°	13.8	4.6
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°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	37.9	12.7
90°-120°	260.5	87.3
90°-150°	260.5	87.3
90°-180°	260.0	87.1
0°-180°	298.4	100.0

INTENSITY DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	7	7	7	7	7	5
90°	226	195	226	195	226	115
95°	236	272	236	272	236	140
105°	12	14	12	14	12	13
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: 104416213CRT-001
 CATALOG NUMBER: 22GAC-4GUV9W-UNV-R1-W

INTENSITY DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	0	0	0	0	0	0	0	0	0	0	0
10°	0	0	0	0	0	0	0	0	0	0	0
20°	0	0	0	0	0	0	0	0	0	0	0
30°	0	0	0	0	0	0	0	0	0	0	0
40°	0	0	0	0	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
81°	1	1	1	1	1	1	1	1	1	1	1
82°	2	2	2	2	2	2	2	2	2	2	2
83°	4	3	4	3	3	3	4	3	4	3	4
84°	5	5	6	5	5	5	6	5	5	5	6
85°	7	8	10	8	7	8	10	8	7	8	10
86°	10	11	19	17	11	17	19	11	10	11	19
87°	18	21	37	33	19	33	37	21	18	21	37
88°	36	47	73	71	63	71	73	47	36	47	73
89°	109	102	135	106	97	106	135	102	109	102	135
90°	226	224	268	200	195	200	268	224	226	224	268
91°	329	371	457	337	330	337	457	371	329	371	457
92°	340	390	507	421	409	421	507	390	340	390	507
93°	342	360	458	421	406	421	458	360	342	360	458
94°	290	294	333	383	371	383	333	294	290	294	333
95°	236	238	257	264	272	264	257	238	236	238	257
96°	208	193	132	172	179	172	132	193	208	193	132
97°	124	76	58	97	114	97	58	76	124	76	58
98°	47	42	46	51	51	51	46	42	47	42	46
99°	34	29	38	34	36	34	38	29	34	29	38
100°	25	23	28	27	27	27	28	23	25	23	28
110°	0	0	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: 104416213CRT-001

CATALOG NUMBER: 22GAC-4GUV9W-UNV-R1-W

INTENSITY DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	0	0	0	0	0	0
10°	0	0	0	0	0	0
20°	0	0	0	0	0	0
30°	0	0	0	0	0	0
40°	0	0	0	0	0	0
50°	0	0	0	0	0	0
60°	0	0	0	0	0	0
70°	0	0	0	0	0	0
80°	0	0	0	0	0	0
81°	1	1	1	1	1	1
82°	2	2	2	2	2	2
83°	3	3	3	4	3	4
84°	5	5	5	6	5	5
85°	8	7	8	10	8	7
86°	17	11	17	19	11	10
87°	33	19	33	37	21	18
88°	71	63	71	73	47	36
89°	106	97	106	135	102	109
90°	200	195	200	268	224	226
91°	337	330	337	457	371	329
92°	421	409	421	507	390	340
93°	421	406	421	458	360	342
94°	383	371	383	333	294	290
95°	264	272	264	257	238	236
96°	172	179	172	132	193	208
97°	97	114	97	58	76	124
98°	51	51	51	46	42	47
99°	34	36	34	38	29	34
100°	27	27	27	28	23	25
110°	0	0	0	0	0	0
120°	0	0	0	0	0	0
130°	0	0	0	0	0	0
140°	0	0	0	0	0	0
150°	0	0	0	0	0	0
160°	0	0	0	0	0	0
170°	0	0	0	0	0	0
180°	0	0	0	0	0	0

(END OF REPORT)