

Light efficiency:

73 Lumen/Watt

Color temperature:

4101 K

Light quality:

CRI:90.9, R_g:96.5, R_f:89.8

P: 2 / V: - / F: 3

Output: 4039 lm

Peak: 4558 cd

Power: 55.1 W

Voltage: 119 V

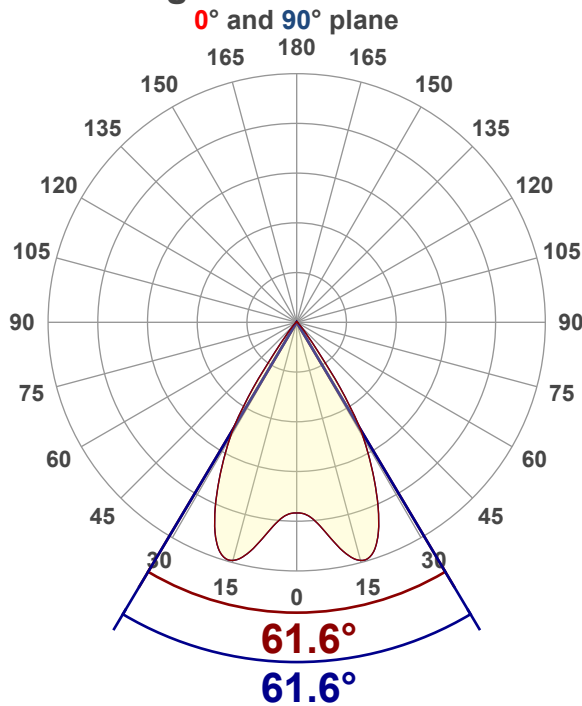
Current: 0.465 A

PF: 0.99

THD: 7.66 %



Angular Distribution



Product name:

GCY6A48-4040W-BKRHCS

Test Date:

11/25/2024

Beam Angle (50% of the brightness of the centre):

61.6°

Field Angle (10% of the brightness of the centre):

75.3°

Cut Off Angle (2.5% of the brightness of the centre):

89.9°

Beam Details

*measured at centre of beam

Mounting Height (feet)\(meter)	Lux*	Footcandles*	Beam width (feet) / (meter)
4 ft / 1.2 m	2372 lx	220 fc	4.8 ft / 1.5 m
8 ft / 2.4 m	593 lx	55 fc	9.5 ft / 2.9 m
12 ft / 3.7 m	264 lx	24 fc	14.3 ft / 4.4 m
16 ft / 4.9 m	148 lx	14 fc	19.1 ft / 5.8 m
20 ft / 6.1 m	95 lx	9 fc	23.8 ft / 7.3 m

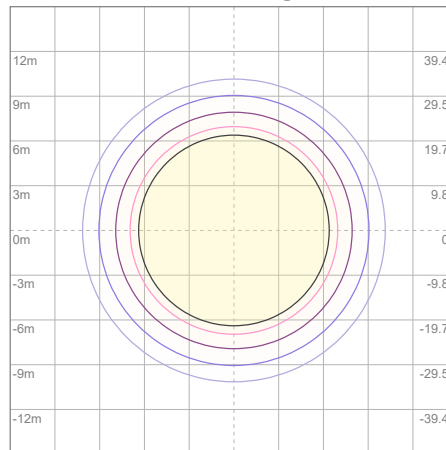
Beam center

Photometric Testing Report

Zonal Lumen Summary

Zone	Lumen	%Luminaire
0-30	3201	79.25%
0-40	3881	96.09%
0-60	4002	99.08%
60-90	14.0	0.35%
70-100	8.38	0.21%
90-120	6.68	0.17%
0-90	4016	99.43%
90-180	22.3	0.55%
0-180	4039	100.00%

ISO Lux Diagram



Mounting height: 3.05 meters (10 feet)

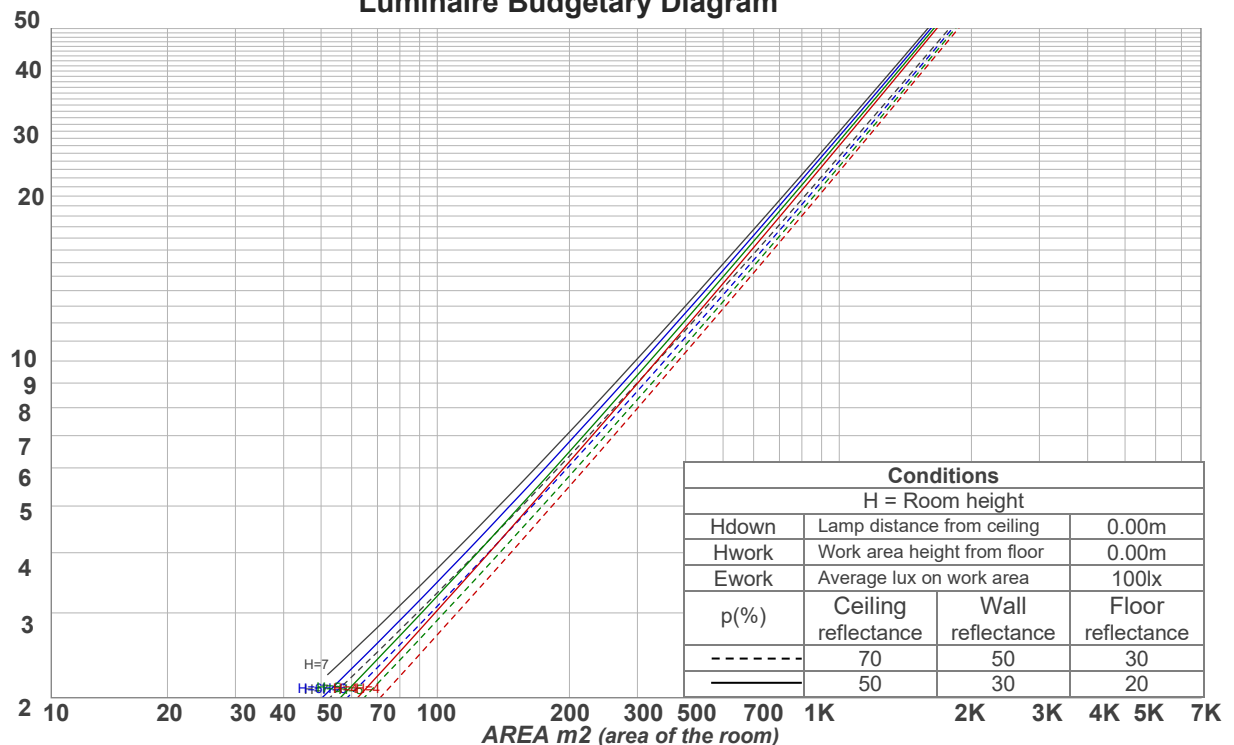
Lux at center:	379 lx
3%	11.37 lx
5%	18.95 lx
10%	37.90 lx
30%	113.70 lx
50%	189.50 lx
Conditions: Number of planes: 8 Lux distribution on a surface when lamp is mounted at 3.05 meters from the surface.	

Coefficients of Utilization

Ceiling reflectance	80				70				50			30			10			0
Wall reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Floor reflectance	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	0
RCR	(RCR: Room Cavity Ratio)				Room Values are expressed as percentage of Lumens delivered to the task surface													
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	99
1	114	111	108	106	111	109	107	105	105	103	101	101	99	98	97	96	95	93
2	108	104	100	96	106	102	98	95	98	96	93	95	93	91	93	91	89	87
3	103	97	92	88	101	95	91	88	93	89	86	90	87	85	88	85	83	82
4	98	91	86	81	96	90	85	81	87	83	80	85	82	79	84	80	78	76
5	93	85	80	76	92	84	79	75	83	78	74	81	77	74	79	76	73	72
6	89	80	75	70	87	79	74	70	78	73	70	77	72	69	75	71	69	67
7	85	76	70	66	83	75	70	66	74	69	65	72	68	65	71	67	65	63
8	81	71	66	62	79	71	65	62	70	65	61	69	64	61	68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58	65	61	57	64	60	57	56
10	73	64	58	55	72	64	58	55	63	58	54	62	57	54	61	57	54	53

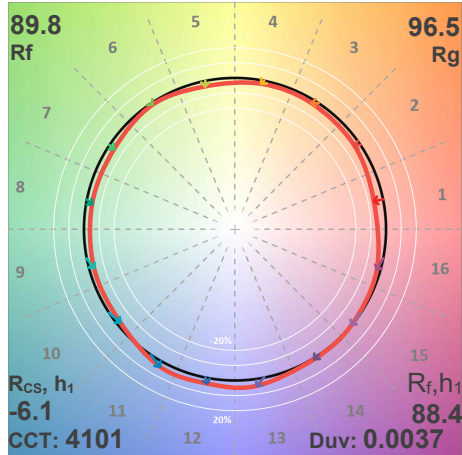
LAMPS (number of lamps)

Luminaire Budgetary Diagram

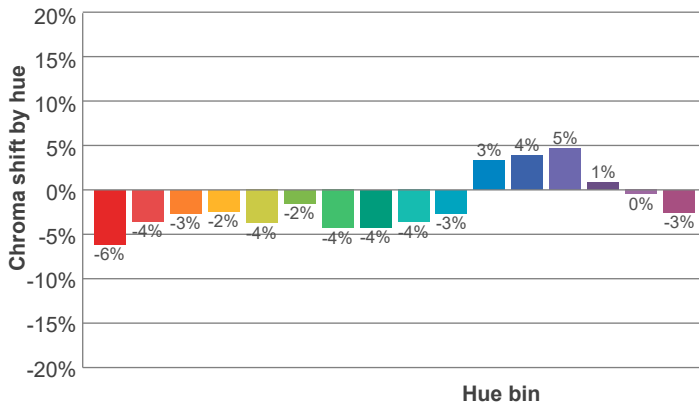
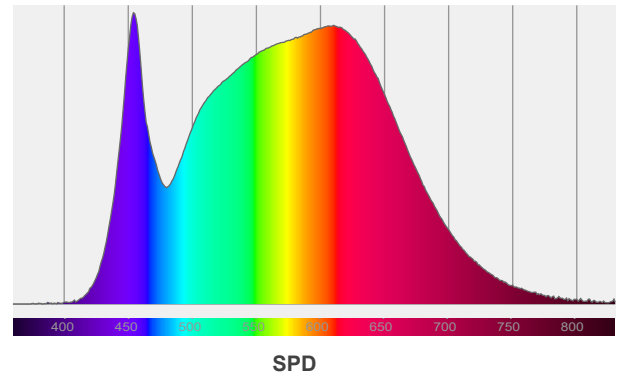
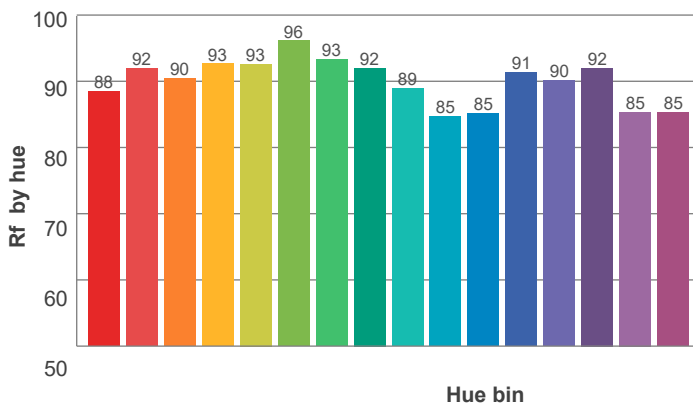
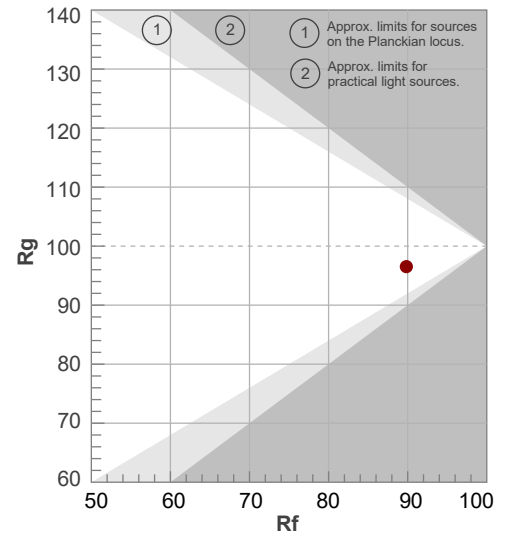


ANSI/IES TM-30-18

P: 2 / V: - / F: 3



Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	88	-6%	0%
2	92	-4%	2%
3	90	-3%	4%
4	93	-2%	1%
5	93	-4%	1%
6	96	-2%	0%
7	93	-4%	0%
8	92	-4%	2%
9	89	-4%	7%
10	85	-3%	9%
11	85	3%	9%
12	91	4%	2%
13	90	5%	-6%
14	92	1%	-4%
15	85	0%	-10%
16	85	-3%	-8%



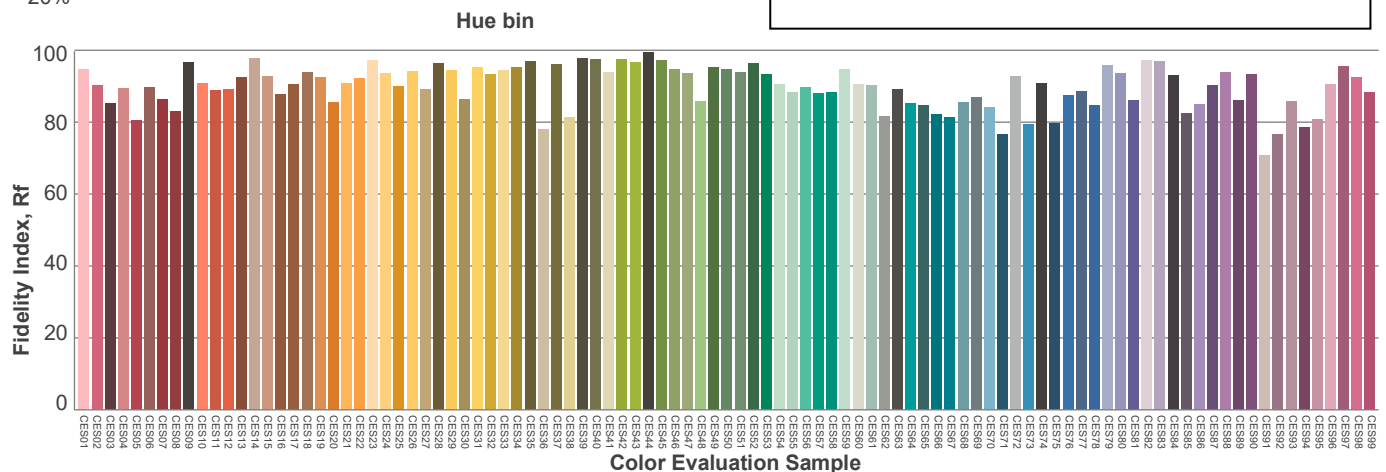
Red: 28.1%, Power=27.1mW

Blue: 13.8%, Power=33.6mW

Green: 29.6%, Power=54.8mW

UVA: 0%, Power=0.1mW

Dominant Wavelength: 579nm

1st Peak Wavelength: 454nm2nd Peak Wavelength: 610nm

Glare Evaluation According to UGR

Corrected, comprehensive UGR table according to 117-1995, S/H ratio=0.25

p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size H = mounting height above eye level X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	17.7	18.4	17.9	18.6	18.8	17.7	18.4	17.9	18.6	18.8
	3H	17.4	18.2	17.8	18.4	18.6	17.4	18.2	17.8	18.4	18.6
	4H	17.4	18.1	17.8	18.3	18.6	17.4	18.1	17.8	18.3	18.6
	6H	17.4	18.0	17.7	18.3	18.6	17.4	18.0	17.7	18.3	18.6
	8H	17.3	17.9	17.7	18.2	18.6	17.3	17.9	17.7	18.2	18.6
	12H	17.3	17.8	17.6	18.2	18.6	17.3	17.8	17.6	18.2	18.6
4H	2H	17.4	18.1	17.8	18.3	18.6	17.4	18.1	17.8	18.3	18.6
	3H	17.3	17.8	17.6	18.2	18.6	17.3	17.8	17.6	18.2	18.6
	4H	17.1	17.6	17.6	18.1	18.6	17.1	17.6	17.6	18.1	18.6
	6H	17.1	17.6	17.6	17.9	18.3	17.1	17.6	17.6	17.9	18.3
	8H	17.0	17.5	17.5	17.9	18.2	17.0	17.5	17.5	17.9	18.2
	12H	17.0	17.3	17.5	17.8	18.2	17.0	17.3	17.5	17.8	18.2
8H	4H	17.0	17.5	17.5	17.8	18.2	17.0	17.5	17.5	17.8	18.2
	6H	16.9	17.3	17.5	17.7	18.3	16.9	17.3	17.5	17.7	18.3
	8H	17.0	17.2	17.5	17.7	18.4	17.0	17.2	17.5	17.7	18.4
	12H	16.9	17.1	17.5	17.6	18.2	16.9	17.1	17.5	17.6	18.2
12H	4H	16.9	17.3	17.4	17.7	18.2	16.9	17.3	17.4	17.7	18.2
	6H	16.9	17.2	17.5	17.7	18.4	16.9	17.2	17.5	17.7	18.4
	8H	16.9	17.1	17.5	17.6	18.2	16.9	17.1	17.5	17.6	18.2
Variation of the observer position for the luminaire distance S											
S = 1.0H		6.3 / -11.1					6.3 / -11.1				
S = 1.5H		9.0 / -12.6					9.0 / -12.6				
S = 2.0H		11.0 / -13.1					11.0 / -13.1				
Corrected glare indices referring to 4039 lm total luminous flux											