

## Light efficiency:

**83 Lumen/Watt**

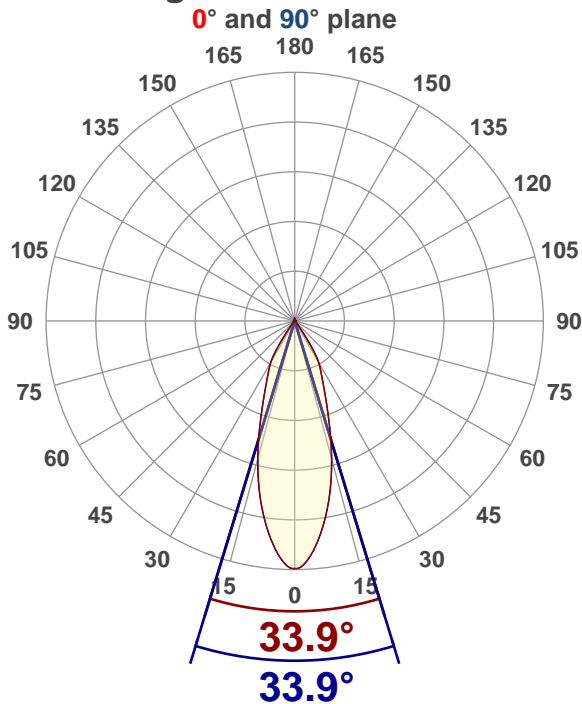
## Color temperature:

**4003 K**

## Light quality:

**CRI:92.2, R<sub>g</sub>:90.6, R<sub>f</sub>:98.2****P: 2 / V: - / F: 2****Output: 2766 lm****Peak: 6353 cd****Power: 33.2 W****Voltage: 120 V****Current: 0.281 A****PF: 0.98****THD: 11.35 %**

## Angular Distribution



Product name:

**GEN063040-MHWSNXN1 at 770mA**

Test Date:

**2021-04-29**

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

**33.9°**

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

**67.4°**

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

**76.2°**

## Beam Details

\*measured at centre of beam

Mounting Height (feet)/(meter)	Lux*	Footcandles*	Beam width (feet) / (meter)
4 ft / 1.2 m	4274 lx	397 fc	2.4 ft / 0.7 m
8 ft / 2.4 m	1069 lx	99 fc	4.9 ft / 1.5 m
12 ft / 3.7 m	475 lx	44 fc	7.3 ft / 2.2 m
16 ft / 4.9 m	267 lx	25 fc	9.8 ft / 3 m
20 ft / 6.1 m	171 lx	16 fc	12.2 ft / 3.7 m

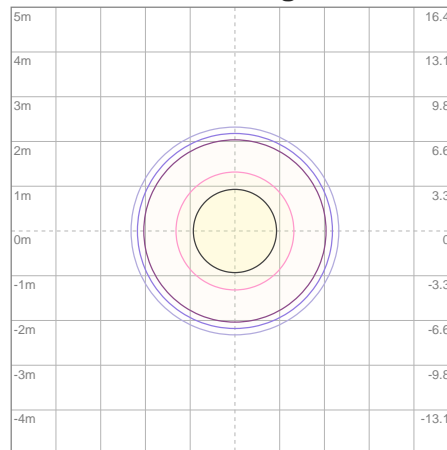
Beam center

# Photometric Testing Report

## Zonal Lumen Summary

Zone	Lumen	%Luminaire
0-30	2324	84.02%
0-40	2641	95.48%
0-60	2717	98.23%
60-90	20.0	0.72%
70-100	13.8	0.50%
90-120	10.2	0.37%
0-90	2737	98.95%
90-180	28.7	1.04%
0-180	2766	100.00%

## ISO Lux Diagram



Lux at center:	683 lx
3%	20.49 lx
5%	34.15 lx
10%	68.30 lx
30%	204.90 lx
50%	341.50 lx
<b>Conditions:</b> Number of planes: 8 Lux distribution on a surface when lamp is mounted at 3.05 meters from the surface.	

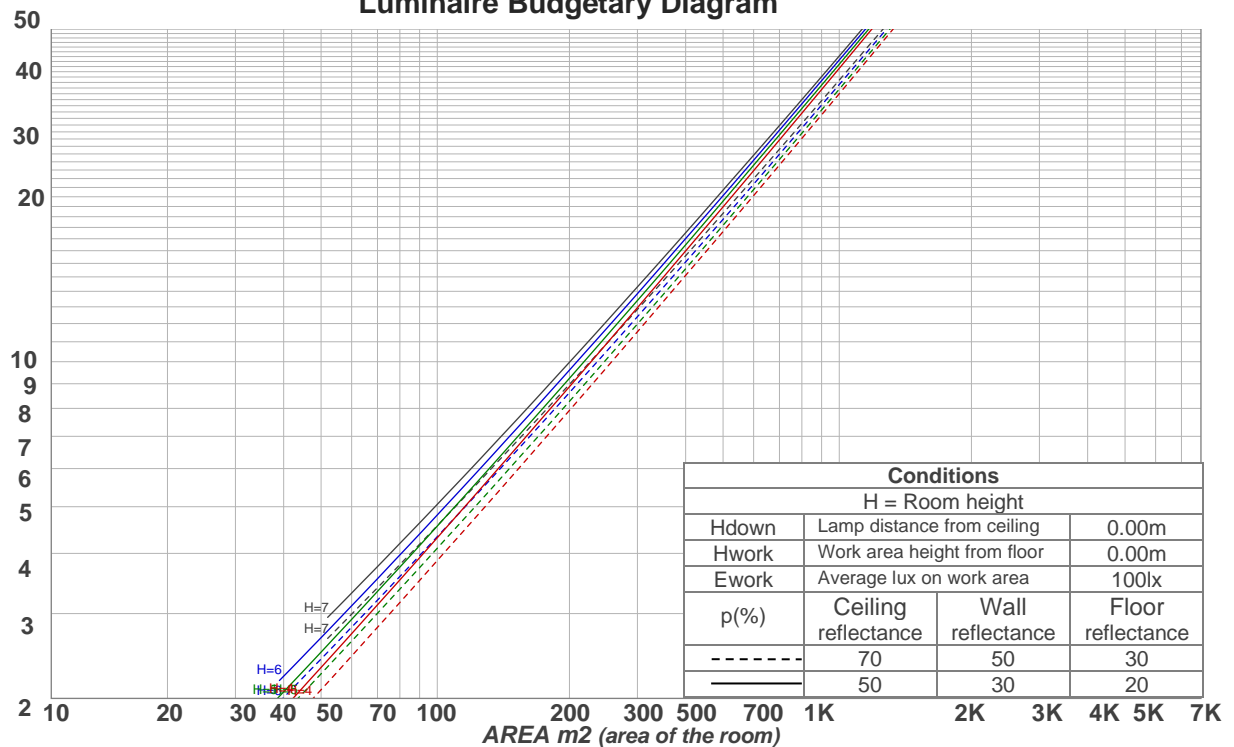
Mounting height: 3.05 meters (10 feet)

## 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	101	101	101	99
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	97	96	96	94
2	109	105	101	98	107	103	100	97	99	97	95	96	94	92	94	92	90	89
3	104	99	94	91	102	97	93	90	95	91	88	92	89	87	90	87	86	84
4	100	93	89	85	98	92	88	84	90	86	83	88	85	82	86	83	81	80
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	79	77	76
6	92	84	79	75	91	83	79	75	82	78	74	80	77	74	79	76	73	72
7	88	80	75	71	87	80	75	71	78	74	71	77	73	70	76	73	70	69
8	85	77	71	68	84	76	71	68	75	71	67	74	70	67	73	69	67	66
9	82	73	68	65	81	73	68	65	72	67	64	71	67	64	70	66	64	63
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	67	64	61	60

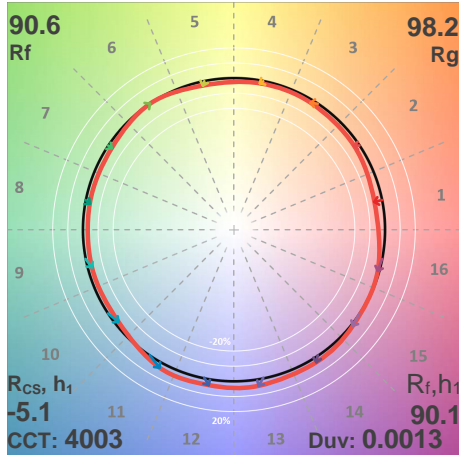
LAMPS (number of lamps)

## Luminaire Budgetary Diagram

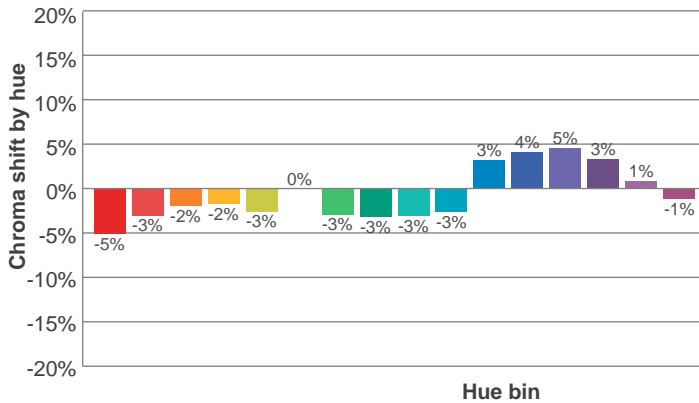
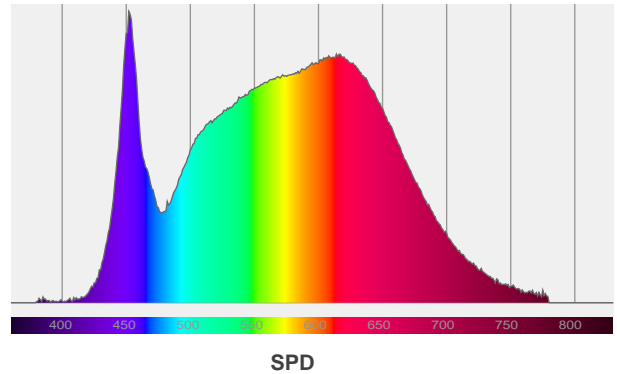
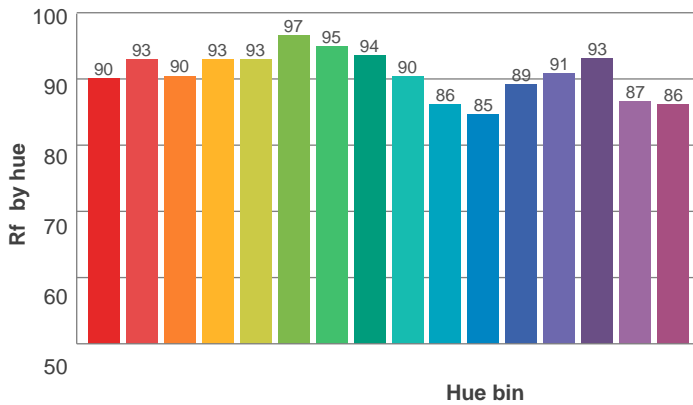
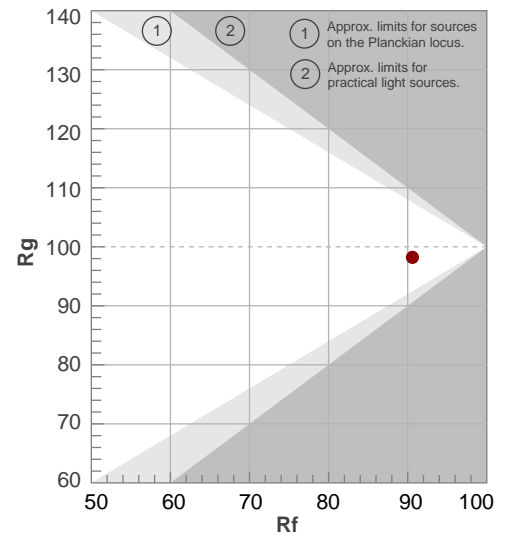


ANSI/IES TM-30-18

P: 2 / V: - / F: 2



Hue Bin	R <sub>f</sub>	Shifts (%)	
		Chroma	Hue
1	90	-5%	0%
2	93	-3%	2%
3	90	-2%	4%
4	93	-2%	2%
5	93	-3%	1%
6	97	0%	0%
7	95	-3%	0%
8	94	-3%	2%
9	90	-3%	6%
10	86	-3%	8%
11	85	3%	10%
12	89	4%	4%
13	91	5%	-4%
14	93	3%	-3%
15	87	1%	-9%
16	86	-1%	-8%



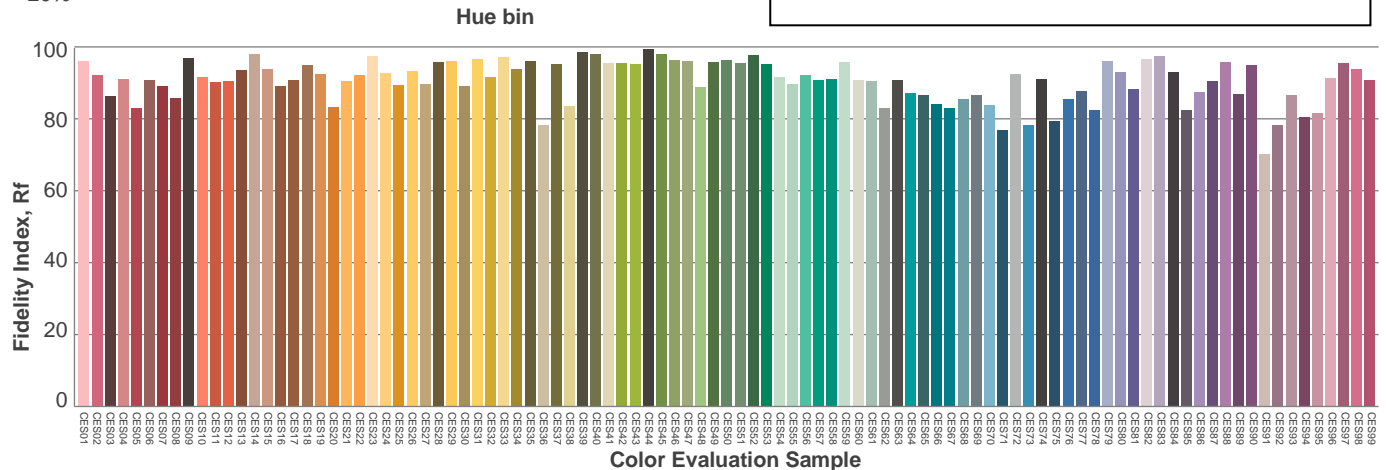
Red: 29.4%, Power=20.2mW

Blue: 13.3%, Power=20.6mW

Green: 28.9%, Power=37.1mW

UVA: 0.1%, Power=0.0mW

Dominant Wavelength: 581nm

1<sup>st</sup> Peak Wavelength: 452nm2<sup>nd</sup> Peak Wavelength: 614nm

## Glare Evaluation According to UGR

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 X      Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	13.9	14.5	14.0	14.7	14.9	13.9	14.5	14.0	14.7	14.9
	3H	13.7	14.4	14.1	14.6	14.8	13.7	14.4	14.1	14.6	14.8
	4H	13.7	14.3	14.1	14.5	14.8	13.7	14.3	14.1	14.5	14.8
	6H	13.7	14.2	14.0	14.5	14.9	13.7	14.2	14.0	14.5	14.9
	8H	13.7	14.2	14.0	14.5	14.9	13.7	14.2	14.0	14.5	14.9
	12H	13.7	14.2	14.0	14.5	15.0	13.7	14.2	14.0	14.5	15.0
4H	2H	13.6	14.2	14.0	14.5	14.7	13.6	14.2	14.0	14.5	14.7
	3H	13.6	14.1	13.9	14.4	14.9	13.6	14.1	13.9	14.4	14.9
	4H	13.5	14.0	13.9	14.4	14.9	13.5	14.0	13.9	14.4	14.9
	6H	13.5	14.0	14.0	14.3	14.7	13.5	14.0	14.0	14.3	14.7
	8H	13.5	14.0	14.0	14.3	14.7	13.5	14.0	14.0	14.3	14.7
	12H	13.5	13.9	14.0	14.3	14.8	13.5	13.9	14.0	14.3	14.8
8H	4H	13.4	13.8	13.9	14.2	14.6	13.4	13.8	13.9	14.2	14.6
	6H	13.5	13.8	14.0	14.2	14.8	13.5	13.8	14.0	14.2	14.8
	8H	13.6	13.8	14.1	14.3	15.0	13.6	13.8	14.1	14.3	15.0
	12H	13.6	13.8	14.2	14.4	15.0	13.6	13.8	14.2	14.4	15.0
12H	4H	13.3	13.7	13.8	14.1	14.6	13.3	13.7	13.8	14.1	14.6
	6H	13.5	13.7	14.0	14.2	14.9	13.5	13.7	14.0	14.2	14.9
	8H	13.5	13.7	14.1	14.3	14.9	13.5	13.7	14.1	14.3	14.9
Variation of the observer position for the luminaire distance S											
S = 1.0H		5.7 / -4.7					5.7 / -4.7				
S = 1.5H		8.4 / -5.2					8.4 / -5.2				
S = 2.0H		10.4 / -5.5					10.4 / -5.5				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 2766 lm total luminous flux											