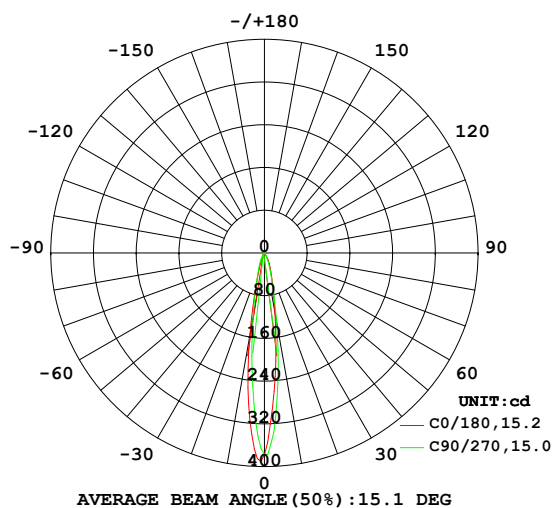


LUMINAIRE PHOTOMETRIC TEST REPORT

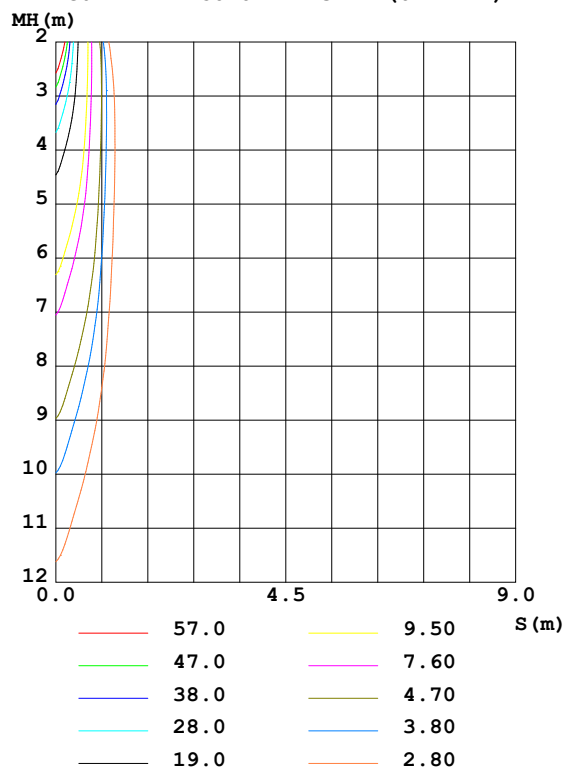
Test:U:220.6V I:0.0189A P:1.700W PF:0.4067 Freq:59.98Hz Lamp Flux:47.4988x1 lm					
NAME: S204LED		TYPE:		WEIGHT:	
SPEC.: P-S204LED-1W3015-OS3503R90-LDY700		DIM.:		SERIAL No.:	
MFR.: CETTIGA		SUR.:		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 27.95 lm/W
MODEL	OS 3030	I _{max} (cd)	390.0	S/MH (C0/180)	0.31	
NOMINAL POWER (W)	1W	LOR (%)	100.0	S/MH (C90/270)	0.25	
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	47.499	η UP, DN (C0-180)	0.2, 48.8	
NOMINAL FLUX (lm)	47.4988	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.1, 51.0	
LAMPS INSIDE	1	η up (%)	0.3	CIBSE SHR NOM	0.00	
TEST VOLTAGE (V)	220.2	η down (%)	99.7	CIBSE SHR MAX	1.00	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Xie Bi
 Test Date: 2020-07-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 6.900m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

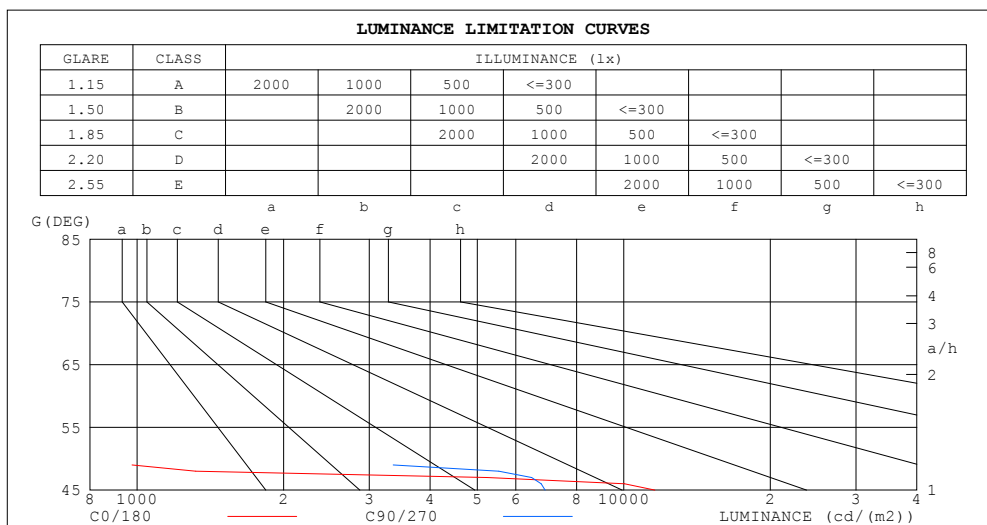
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	112.3	130.8	157.8	122.6					0- 10	21.08	21.08	44.4,44.4
20	33.65	27.14	24.01	31.74					10- 20	16.85	37.93	79.9,79.9
30	10.34	6.540	5.732	8.683					20- 30	7.567	45.50	95.8,95.8
40	1.080	0.6324	0.6264	0.9693					30- 40	1.449	46.94	98.8,98.8
50	0.0465	0.0404	0.1668	0.0755					40- 50	0.4056	47.35	99.7,99.7
60	0.0116	0	0.0058	0.0174					50- 60	0.0195	47.37	99.7,99.7
70	0.0058	0	0	0.0058					60- 70	0.0043	47.37	99.7,99.7
80	0	0	0	0					70- 80	0.0011	47.37	99.7,99.7
90	0	0	0	0					80- 90	0	47.37	99.7,99.7
100	0	0	0	0					90-100	0	47.37	99.7,99.7
110	0	0	0	0					100-110	0	47.37	99.7,99.7
120	0	0	0	0					110-120	0	47.37	99.7,99.7
130	0	0.0058	0.0058	0					120-130	0.0004	47.38	99.7,99.7
140	0	0.0233	0.0117	0					130-140	0.0044	47.38	99.7,99.7
150	0.0116	0.0813	0.0407	0.0058					140-150	0.0128	47.39	99.8,99.8
160	0.1857	0.1997	0.1336	0.0870					150-160	0.0395	47.43	99.9,99.9
170	0.1977	0.2055	0.1799	0.1792					160-170	0.0488	47.48	100,100
180	0.1857	0.1857	0.1915	0.1741					170-180	0.0179	47.50	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Xie Bi
 Test Date:2020-07-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:6.900m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.6V I:0.0189A P:1.700W PF:0.4067 Freq:59.98Hz Lamp Flux:47.4988x1 lm		
NAME: S204LED	TYPE:	WEIGHT:
SPEC.:P-S204LED-1W3015-OS3503R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	0	0
80	0	0
75	1	0
70	170	0
65	137	0
60	232	0
55	304	101
50	723	629
45	11583	6892

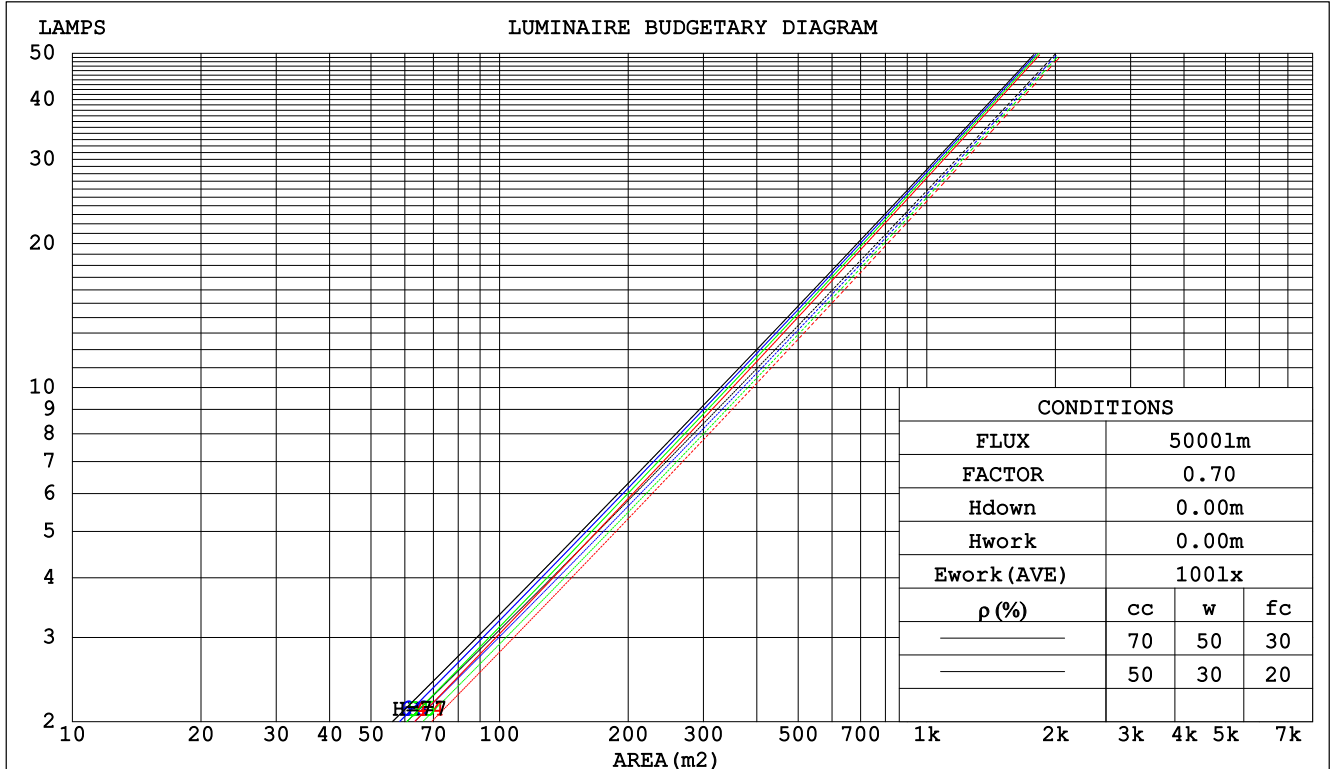
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2020-07-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:6.900m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.6V I:0.0189A P:1.700W PF:0.4067 Freq:59.98Hz Lamp Flux:47.4988x1 lm		
NAME: S204LED	TYPE:	WEIGHT:
SPEC.:P-S204LED-1W3015-OS3503R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.13	1.11	1.10	1.11	1.09	1.08	1.07	1.06	1.05	1.03	1.02	1.01	.00	.99	.99	.97
2.0	1.08	1.05	1.03	1.07	1.04	1.02	1.03	1.01	.00	1.00	.99	.97	.98	.97	.95	.94
3.0	1.04	1.00	.98	1.03	.99	.97	1.00	.98	.95	.98	.96	.94	.96	.94	.93	.91
4.0	1.00	.96	.94	.99	.96	.93	.97	.94	.92	.95	.93	.91	.94	.92	.90	.89
5.0	.97	.93	.90	.96	.92	.90	.94	.91	.89	.93	.90	.88	.91	.89	.87	.86
6.0	.94	.90	.87	.93	.89	.87	.92	.89	.86	.91	.88	.86	.89	.87	.85	.84
7.0	.91	.87	.84	.91	.87	.84	.89	.86	.84	.88	.86	.83	.87	.85	.83	.82
8.0	.89	.85	.82	.88	.85	.82	.87	.84	.82	.86	.83	.81	.86	.83	.81	.80
9.0	.86	.83	.80	.86	.82	.80	.85	.82	.80	.84	.82	.79	.84	.81	.79	.78
10.0	.84	.81	.78	.84	.80	.78	.83	.80	.78	.83	.80	.78	.82	.79	.77	.77



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Xie Bi
 Test Date:2020-07-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:6.900m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:220.6V I:0.0189A P:1.700W PF:0.4067 Freq:59.98Hz Lamp Flux:47.4988x1 lm		
NAME: S204LED	TYPE:	WEIGHT:
SPEC.:P-S204LED-1W3015-OS3503R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.131	.074	.024	.124	.071	.023	.112	.064	.020	.100	.058	.019	.090	.052	.017		
2.0	.121	.066	.020	.115	.064	.020	.105	.058	.018	.096	.054	.017	.087	.049	.015		
3.0	.112	.060	.018	.108	.058	.017	.099	.054	.016	.091	.050	.015	.084	.046	.014		
4.0	.105	.055	.016	.101	.053	.016	.094	.050	.015	.087	.047	.014	.081	.044	.013		
5.0	.099	.050	.015	.095	.049	.014	.089	.046	.014	.083	.044	.013	.078	.042	.013		
6.0	.093	.047	.013	.090	.046	.013	.085	.044	.013	.080	.042	.012	.075	.040	.012		
7.0	.088	.044	.012	.086	.043	.012	.081	.041	.012	.077	.039	.011	.073	.038	.011		
8.0	.084	.041	.012	.082	.040	.011	.078	.039	.011	.074	.038	.011	.071	.036	.011		
9.0	.080	.039	.011	.078	.038	.011	.075	.037	.010	.071	.036	.010	.068	.035	.010		
10.0	.077	.037	.010	.075	.036	.010	.072	.035	.010	.069	.034	.010	.066	.033	.010		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.192	.192	.192	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021	
1.0	.170	.160	.151	.145	.137	.130	.099	.094	.090	.057	.055	.052	.018	.018	.017	
2.0	.151	.135	.121	.130	.116	.104	.089	.080	.073	.051	.047	.043	.016	.015	.014	
3.0	.136	.115	.099	.117	.099	.086	.080	.069	.060	.046	.040	.035	.015	.013	.012	
4.0	.123	.100	.082	.106	.086	.071	.073	.060	.050	.042	.035	.030	.014	.011	.010	
5.0	.113	.087	.069	.097	.076	.060	.067	.053	.042	.039	.031	.025	.012	.010	.008	
6.0	.103	.077	.059	.089	.067	.051	.061	.047	.036	.036	.028	.021	.011	.009	.007	
7.0	.096	.069	.050	.082	.060	.044	.057	.042	.031	.033	.025	.019	.011	.008	.006	
8.0	.089	.062	.044	.077	.054	.038	.053	.038	.027	.031	.022	.016	.010	.007	.005	
9.0	.083	.056	.038	.072	.049	.033	.050	.034	.024	.029	.020	.014	.009	.007	.005	
10.0	.078	.052	.034	.067	.045	.030	.047	.032	.021	.027	.019	.013	.009	.006	.004	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2020-07-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:6.900m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.6V I:0.0189A P:1.700W PF:0.4067 Freq:59.98Hz Lamp Flux:47.4988x1 lm											
NAME: S204LED					TYPE:			WEIGHT:			
SPEC.:P-S204LED-1W3015-OS3503R90-LDY700					DIM.:			SERIAL No.:			
MFR.: CETTIGA					SUR.:			Shielding Angle:			
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions		Viewed crosswise					Viewed endwise				
x = 2H y = 2H		18.6	19.2	18.8	19.4	19.5	18.4	19.0	18.6	19.1	19.3
	3H	18.5	19.0	18.7	19.2	19.4	18.2	18.8	18.5	19.0	19.2
	4H	18.4	18.9	18.7	19.1	19.4	18.1	18.7	18.4	18.9	19.1
	6H	18.3	18.8	18.6	19.1	19.3	18.1	18.6	18.3	18.8	19.0
	8H	18.3	18.8	18.6	19.0	19.3	18.0	18.5	18.3	18.8	19.0
	12H	18.2	18.7	18.5	19.0	19.2	18.0	18.5	18.3	18.7	19.0
4H	2H	18.4	18.9	18.6	19.1	19.4	18.1	18.7	18.4	18.9	19.1
	3H	18.2	18.7	18.5	19.0	19.2	18.0	18.5	18.3	18.7	19.0
	4H	18.1	18.6	18.5	18.9	19.2	17.9	18.3	18.2	18.6	18.9
	6H	18.0	18.4	18.4	18.7	19.1	17.8	18.2	18.1	18.5	18.8
	8H	18.0	18.3	18.4	18.7	19.0	17.7	18.1	18.1	18.4	18.8
	12H	17.9	18.2	18.3	18.6	19.0	17.7	18.0	18.1	18.4	18.8
8H	4H	18.0	18.3	18.4	18.7	19.0	17.7	18.1	18.1	18.4	18.8
	6H	17.8	18.2	18.3	18.5	19.0	17.6	17.9	18.0	18.3	18.7
	8H	17.8	18.1	18.2	18.5	18.9	17.5	17.8	18.0	18.2	18.7
	12H	17.7	18.0	18.2	18.4	18.9	17.5	17.7	17.9	18.2	18.6
12H	4H	17.9	18.2	18.3	18.6	19.0	17.7	18.0	18.1	18.4	18.8
	6H	17.8	18.1	18.2	18.5	18.9	17.5	17.8	18.0	18.2	18.7
	8H	17.7	18.0	18.2	18.4	18.9	17.5	17.7	17.9	18.2	18.6
Variations with the observer position at spacings:											
S = 1.0H	+ 2.5 / -21.4					+ 2.6 / -27.3					
1.5H	+ 3.5 / -19.3					+ 3.8 / -22.2					
2.0H	+ 8.5 / -23.9					+ 7.8 / -25.2					

CIE Pub.117, 47.50 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -10.6)

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2020-07-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:6.900m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.6V I:0.0189A P:1.700W PF:0.4067 Freq:59.98Hz Lamp Flux:47.4988x1 lm		
NAME: S204LED	TYPE:	WEIGHT:
SPEC.:P-S204LED-1W3015-OS3503R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:

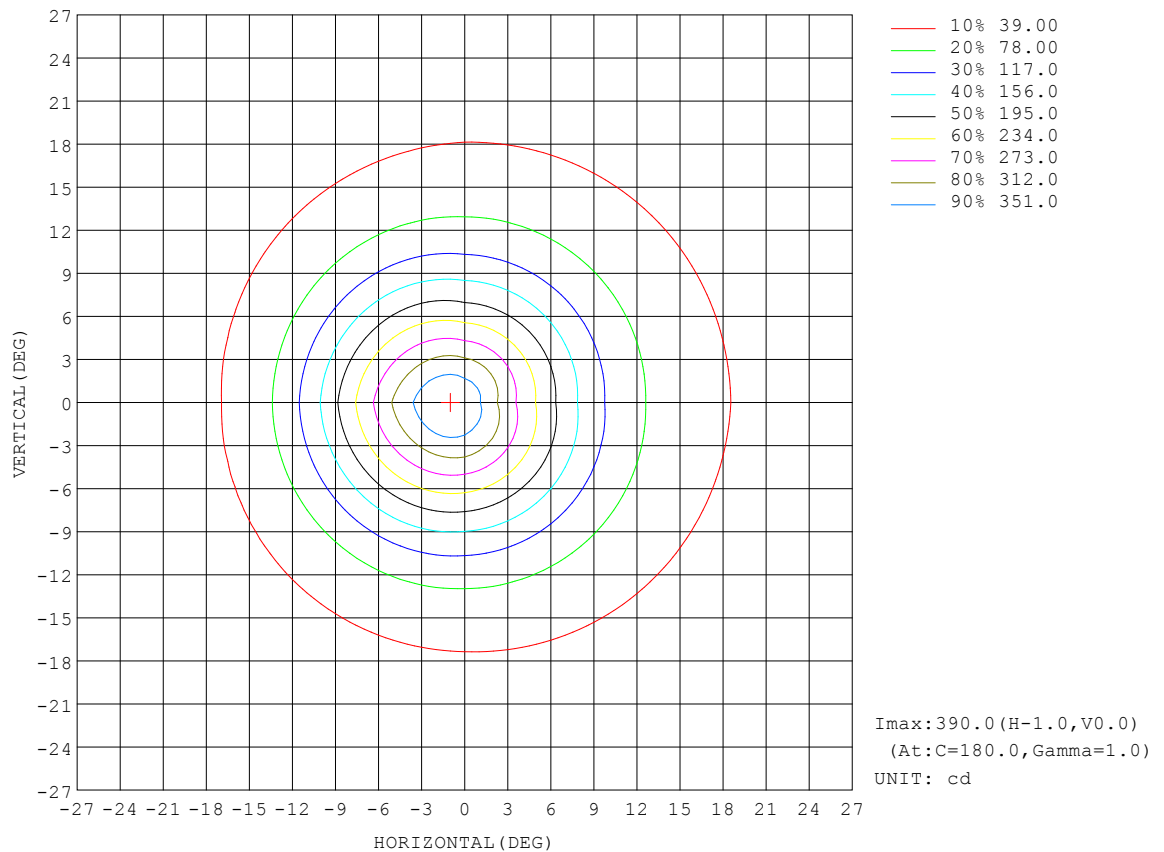
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	82	90	85	82	90	85	82	78
0.80	98	93	89	97	92	89	96	92	89	85
1.00	102	97	93	101	96	93	99	96	93	89
1.25	105	100	97	104	100	97	102	99	96	92
1.50	108	103	100	106	103	100	104	101	99	95
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	107	104	107	104	102	96
3.00	113	110	107	111	108	106	107	105	104	97
4.00	114	112	110	112	110	109	109	107	106	99
5.00	116	114	112	113	112	110	110	108	107	100
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2020-07-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:6.900m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.6V I:0.0189A P:1.700W PF:0.4067 Freq:59.98Hz Lamp Flux:47.4988x1 lm		
NAME: S204LED	TYPE:	WEIGHT:
SPEC.:P-S204LED-1W3015-OS3503R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:



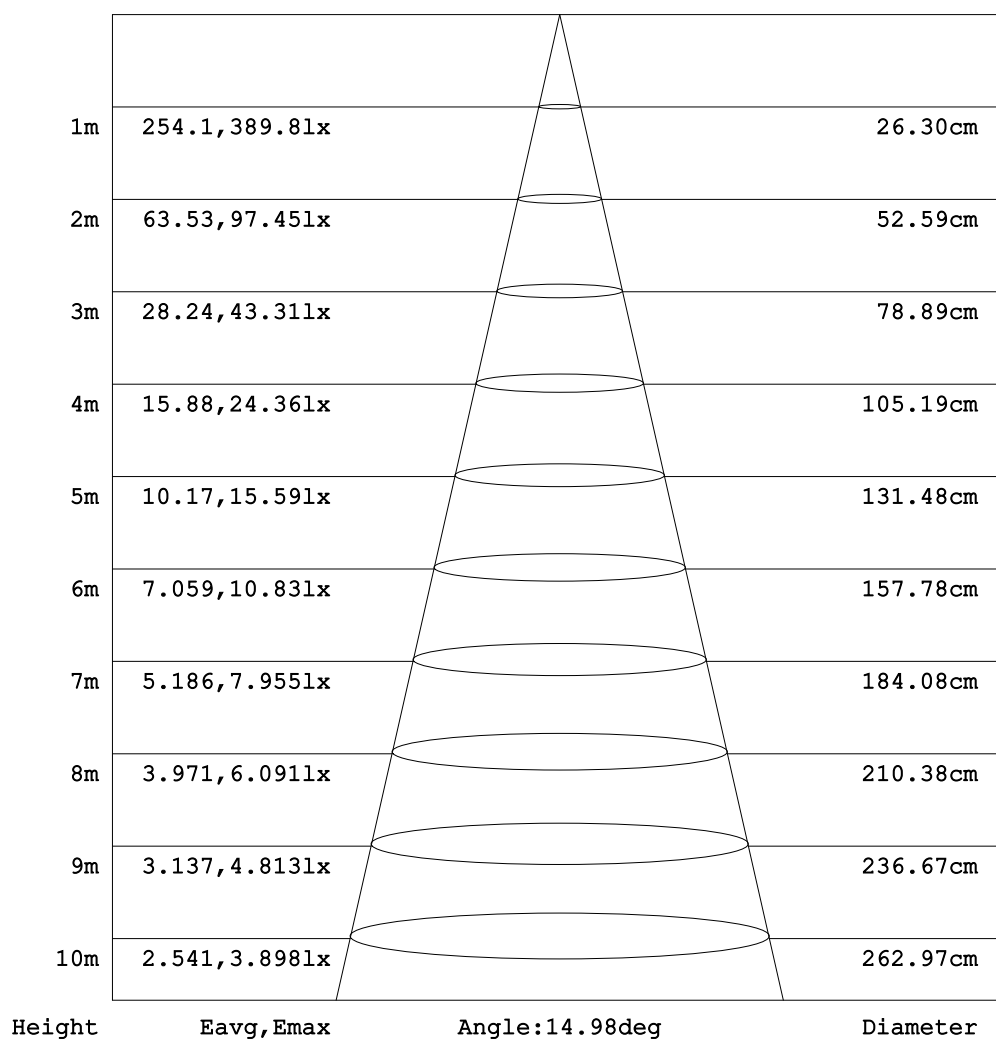
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2020-07-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:6.900m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.6V I:0.0189A P:1.700W PF:0.4067 Freq:59.98Hz Lamp Flux:47.4988x1 lm		
NAME: S204LED	TYPE:	WEIGHT:
SPEC.:P-S204LED-1W3015-OS3503R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:

Flux out:15.77 lm



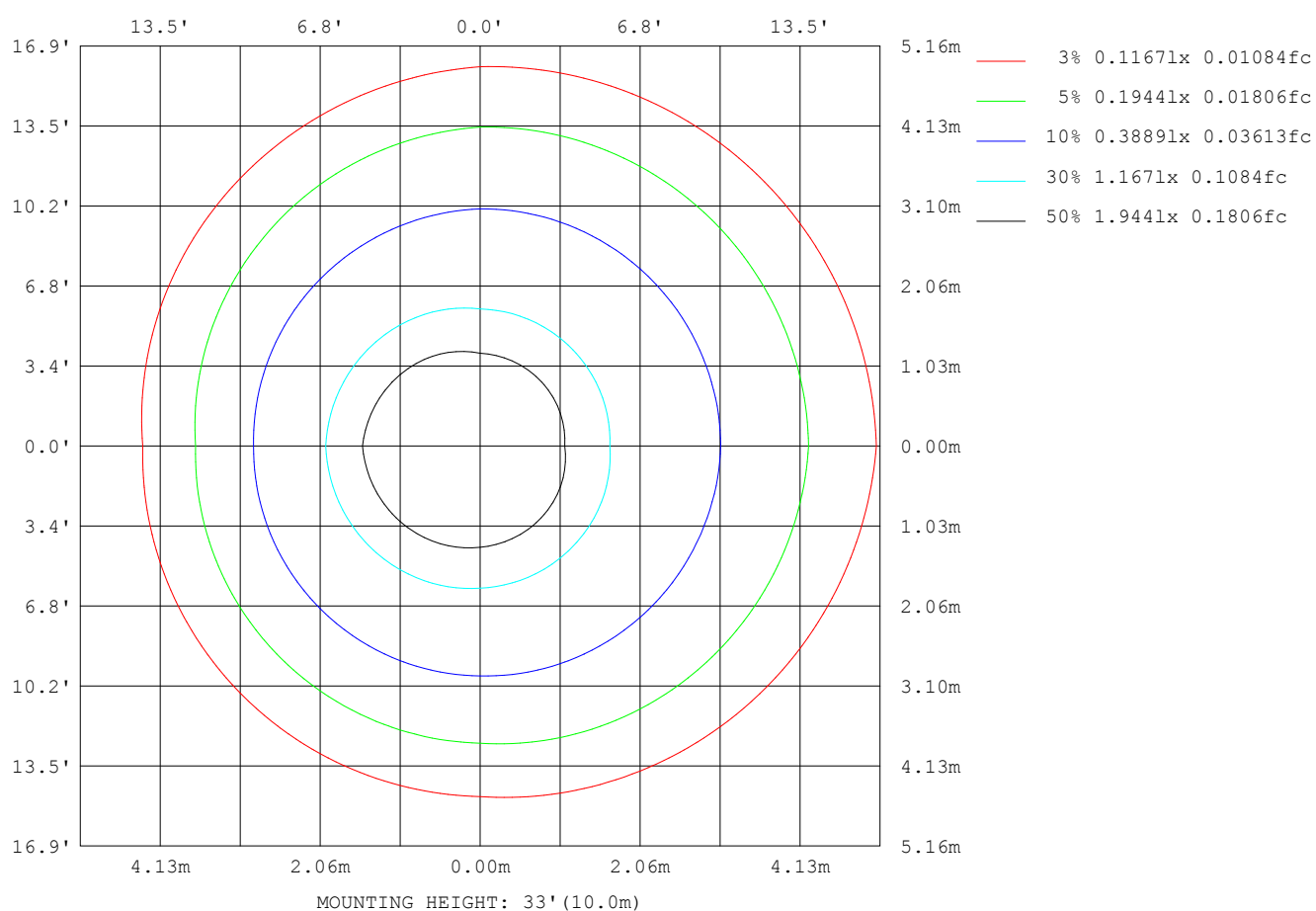
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Xie Bi
 Test Date: 2020-07-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 6.900m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:220.6V I:0.0189A P:1.700W PF:0.4067 Freq:59.98Hz Lamp Flux:47.4988x1 lm		
NAME: S204LED	TYPE:	WEIGHT:
SPEC.:P-S204LED-1W3015-OS3503R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2020-07-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:6.900m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:220.6V I:0.0189A P:1.700W PF:0.4067 Freq:59.98Hz Lamp Flux:47.4988x1 lm		
NAME: S204LED	TYPE:	WEIGHT:
SPEC.:P-S204LED-1W3015-OS3503R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:

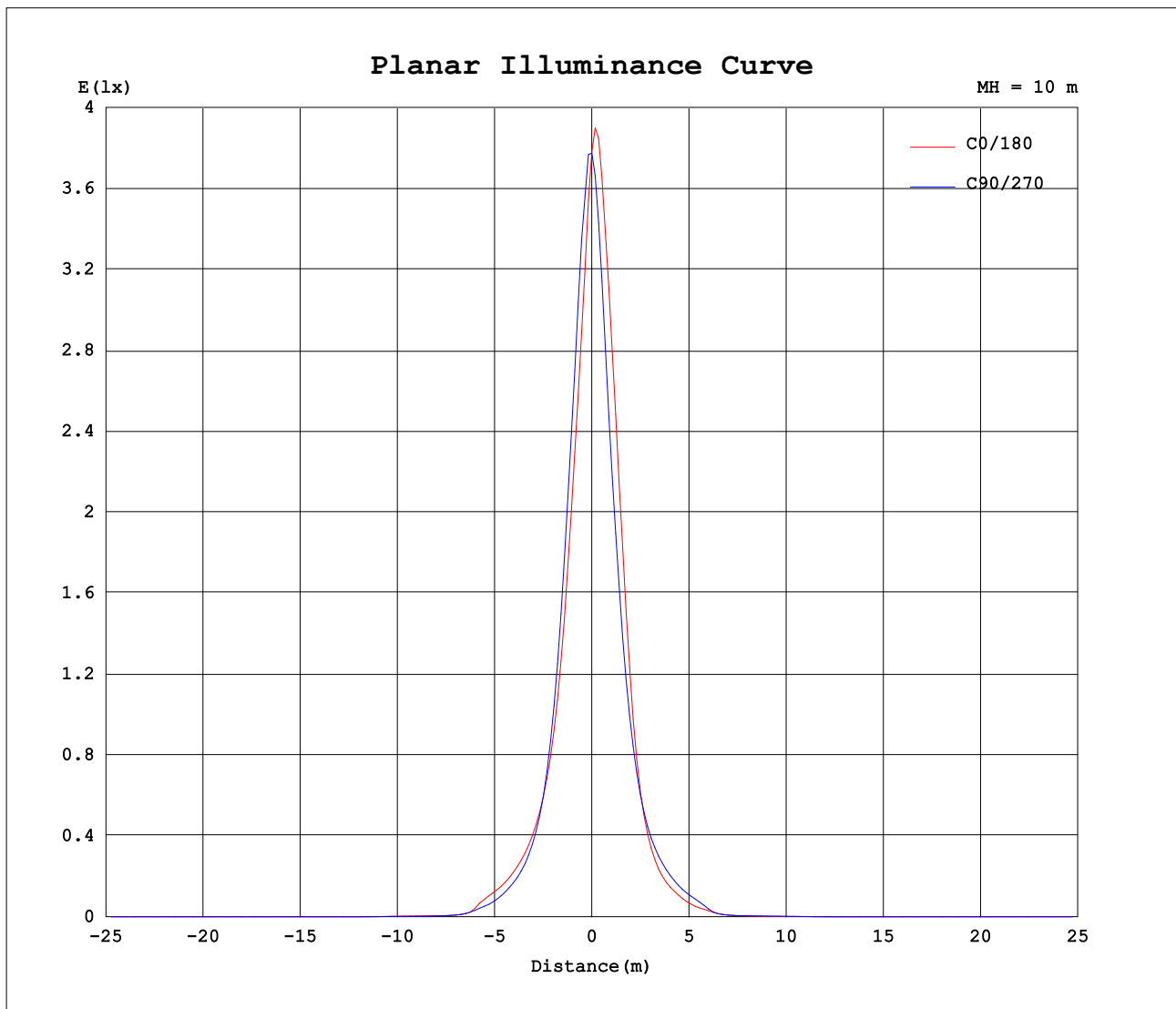
AvgL	cd/m2
L_0~180 (65) av	69
L_0~180 (75) av	0
L_0~180 (85) av	0
L_90~270 (65) av	137
L_90~270 (75) av	0
L_90~270 (85) av	0
L_45 (65) av	114
L_45 (75) av	0
L_45 (85) av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2020-07-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:6.900m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Xie Bi
Test Date: 2020-07-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 6.900m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.6V I:0.0189A P:1.700W PF:0.4067 Freq:59.98Hz Lamp Flux:47.4988x1 lm		
NAME: S204LED	TYPE:	WEIGHT:
SPEC.:P-S204LED-1W3015-OS3503R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	378	377	378	377															
5	232	273	314	251															
10	112	131	158	123															
15	57.6	55.5	55.9	57.6															
20	33.6	27.1	24.0	31.7															
25	20.2	13.9	12.1	18.2															
30	10.3	6.54	5.73	8.68															
35	1.52	1.58	1.65	1.48															
40	1.08	0.63	0.63	0.97															
45	0.82	0.49	0.40	0.75															
50	0.05	0.04	0.17	0.08															
55	0.02	0.01	0.01	0.03															
60	0.01	0.00	0.01	0.02															
65	0.01	0.00	0.00	0.01															
70	0.01	0.00	0.00	0.01															
75	0.00	0.00	0.00	0.00															
80	0.00	0.00	0.00	0.00															
85	0.00	0.00	0.00	0.00															
90	0.00	0.00	0.00	0.00															
95	0.00	0.00	0.00	0.00															
100	0.00	0.00	0.00	0.00															
105	0.00	0.00	0.00	0.00															
110	0.00	0.00	0.00	0.00															
115	0.00	0.00	0.00	0.00															
120	0.00	0.00	0.00	0.00															
125	0.00	0.00	0.00	0.00															
130	0.00	0.01	0.01	0.00															
135	0.00	0.01	0.01	0.00															
140	0.00	0.02	0.01	0.00															
145	0.01	0.05	0.02	0.00															
150	0.01	0.08	0.04	0.01															
155	0.09	0.15	0.08	0.01															
160	0.19	0.20	0.13	0.09															
165	0.20	0.21	0.17	0.13															
170	0.20	0.21	0.18	0.18															
175	0.19	0.19	0.19	0.18															
180	0.19	0.19	0.19	0.17															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
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γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:6.900m [K=1.0000]
 Remarks: