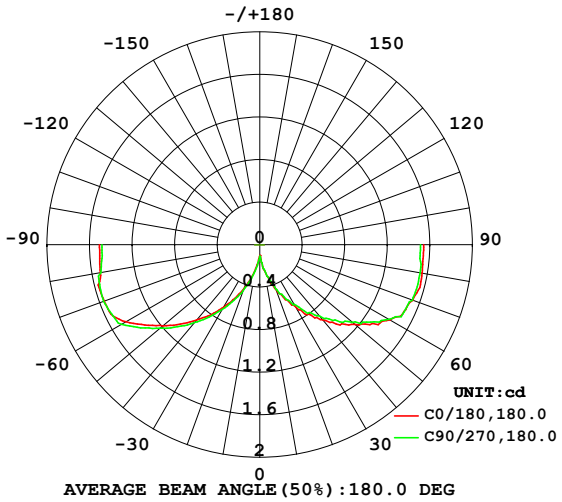
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:23.997V I:0.1094A P:2.6253W PF:1.0000 Freq:50.00Hz Lamp Flux:7.67264x1 lm		
NAME: HCP-271107 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:

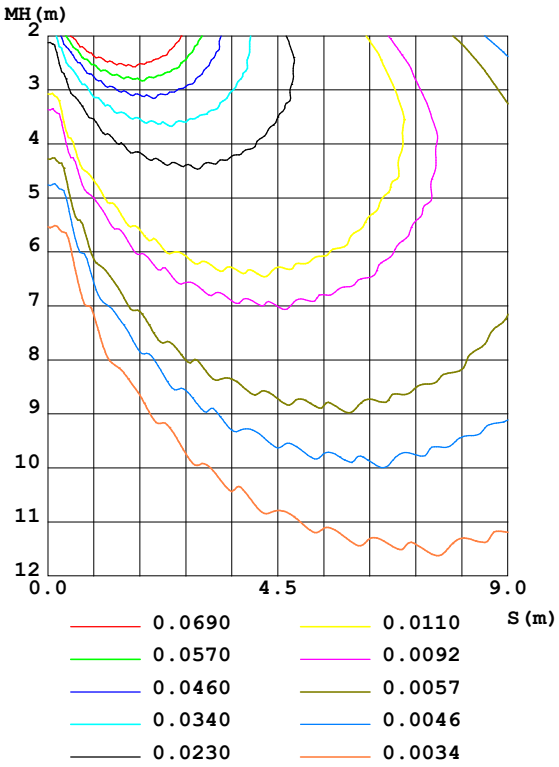
DATA OF LAMP		PHOTOMETRIC DATA			Eff: 2.92 lm/W
MODEL	HCP-271107 4000K	Imax(cd)	1.642	S/MH(C0/180)	5.39
NOMINAL POWER(W)	2.5W	LOR(%)	100.0	S/MH(C90/270)	5.20
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	7.6726	η UP,DN(C0-180)	0.0,49.7
NOMINAL FLUX(lm)	7.67264	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.3
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.75
TEST VOLTAGE(V)	23.997	η down(%)	100.0	CIBSE SHR MAX	1.75

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):180.0 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271107 4000K

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	0.2388	0.2302	0.2345	0.2299	0.2305	0.2347	0.2478	0.2608	0- 10	0.0173	0.0173	0.22,0.22
20	0.4387	0.4428	0.4512	0.4080	0.4432	0.4519	0.4563	0.4650	10- 20	0.0992	0.1165	1.52,1.52
30	0.6729	0.6686	0.6471	0.6423	0.6777	0.6952	0.7038	0.6995	20- 30	0.2624	0.3789	4.94,4.94
40	0.9249	0.9246	0.8771	0.8598	0.9255	0.9602	0.9559	0.9428	30- 40	0.5051	0.8840	11.5,11.5
50	1.168	1.164	1.137	1.107	1.190	1.234	1.225	1.195	40- 50	0.8162	1.700	22.2,22.2
60	1.416	1.429	1.407	1.355	1.451	1.512	1.499	1.451	50- 60	1.178	2.878	37.5,37.5
70	1.533	1.563	1.529	1.498	1.556	1.637	1.563	1.523	60- 70	1.502	4.380	57.1,57.1
80	1.550	1.564	1.530	1.498	1.522	1.555	1.516	1.517	70- 80	1.635	6.015	78.4,78.4
90	1.542	1.546	1.511	1.507	1.507	1.511	1.485	1.511	80- 90	1.657	7.673	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

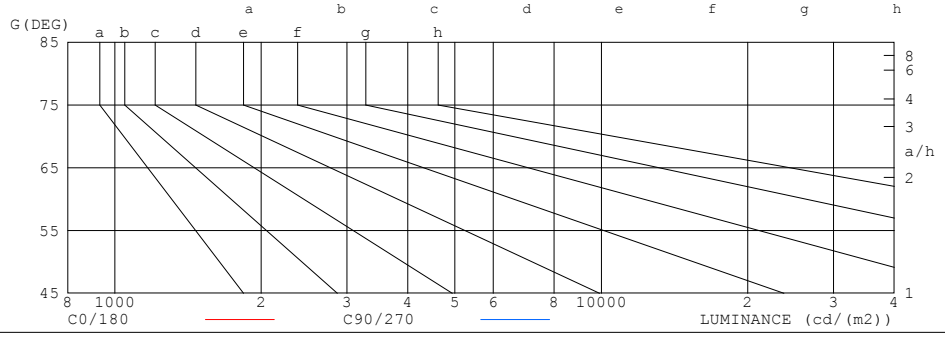
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271107 4000K

LUMINANCE LIMITATION CURVES

Test:U:23.997V I:0.1094A P:2.6253W PF:1.0000 Freq:50.00Hz Lamp Flux:7.67264x1 lm		
NAME: HCP-271107 4000K	**TYPE:**	**WEIGHT:**
SPEC.:	**DIM.:**	**SERIAL No.:**
MFR.: ONIKE	**SUR.:**	**Shielding Angle:**

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	177	173
80	89	88
75	60	59
70	45	45
65	35	35
60	28	28
55	23	22
50	18	18
45	15	14

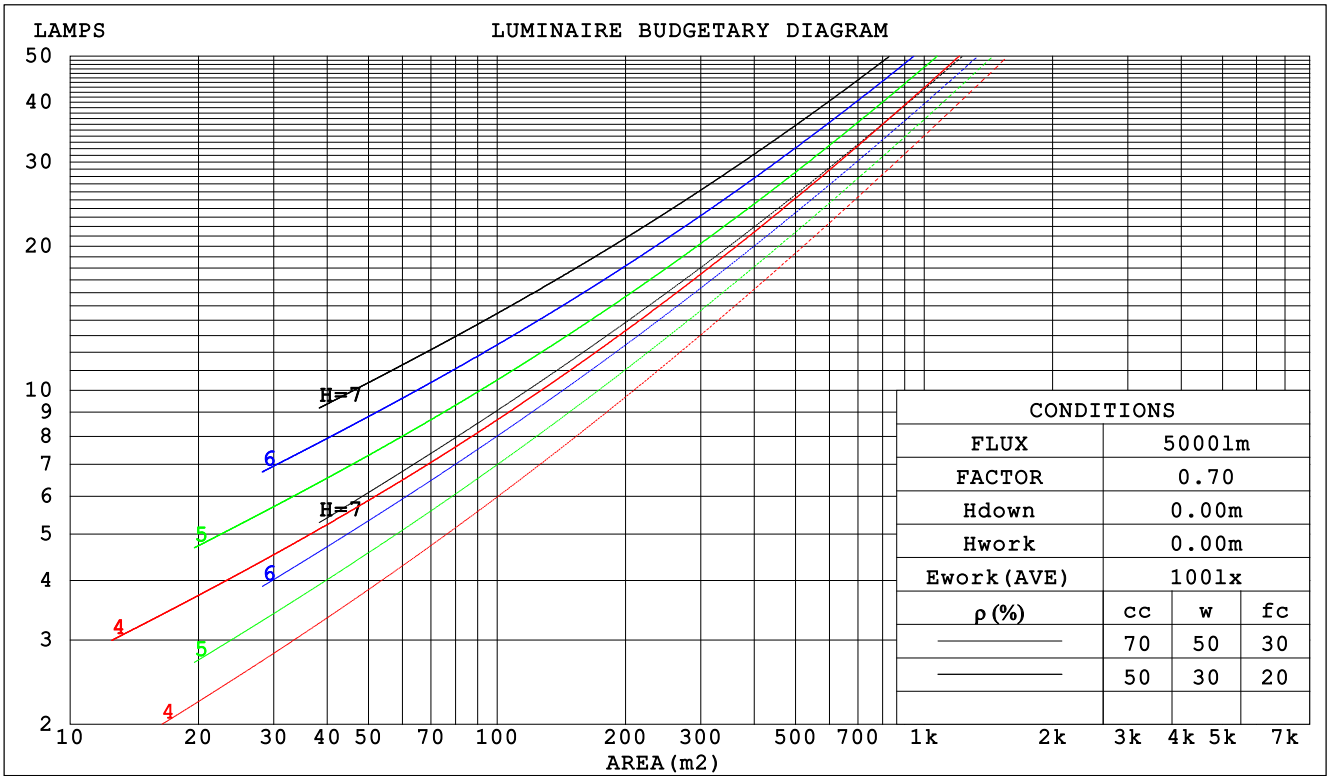
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271107 4000K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:23.997V I:0.1094A P:2.6253W PF:1.0000 Freq:50.00Hz Lamp Flux:7.67264x1 lm		
NAME: HCP-271107 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			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	1.00
1.0	.88	.79	.72	.85	.78	.71	.81	.74	.68	.76	.71	.66	.72	.68	.64	.61
2.0	.70	.59	.49	.68	.58	.49	.64	.55	.47	.60	.53	.46	.57	.50	.45	.42
3.0	.58	.46	.36	.56	.45	.36	.53	.43	.35	.50	.41	.34	.47	.39	.33	.30
4.0	.49	.37	.27	.48	.36	.27	.45	.35	.27	.42	.33	.26	.40	.32	.25	.23
5.0	.43	.30	.22	.41	.30	.21	.39	.29	.21	.36	.28	.21	.34	.26	.20	.17
6.0	.37	.26	.17	.36	.25	.17	.34	.24	.17	.32	.23	.17	.30	.23	.16	.14
7.0	.33	.22	.14	.32	.22	.14	.30	.21	.14	.29	.20	.14	.27	.20	.14	.11
8.0	.30	.19	.12	.29	.19	.12	.27	.18	.12	.26	.18	.12	.25	.17	.12	.09
9.0	.27	.17	.10	.26	.17	.10	.25	.16	.10	.24	.16	.10	.23	.15	.10	.08
10.0	.25	.15	.09	.24	.15	.09	.23	.15	.09	.22	.14	.09	.21	.14	.09	.07



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271107 4000K

WEC AND CCEC

Test:U:23.997V I:0.1094A P:2.6253W PF:1.0000 Freq:50.00Hz Lamp Flux:7.67264x1 lm		
NAME: HCP-271107 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coeffcients(WEC)									
0.0																
1.0	.614	.349	.111	.606	.346	.110	.591	.339	.108	.577	.333	.107	.565	.327	.106	
2.0	.484	.265	.081	.477	.263	.081	.463	.258	.080	.451	.253	.079	.439	.249	.078	
3.0	.406	.216	.065	.399	.214	.064	.387	.210	.064	.376	.206	.063	.366	.203	.063	
4.0	.350	.182	.053	.345	.180	.053	.334	.177	.053	.324	.174	.052	.315	.171	.052	
5.0	.308	.157	.045	.303	.156	.045	.294	.153	.045	.285	.150	.045	.277	.148	.044	
6.0	.275	.138	.040	.271	.137	.039	.263	.135	.039	.255	.132	.039	.248	.130	.039	
7.0	.249	.123	.035	.245	.122	.035	.237	.120	.035	.231	.118	.034	.224	.116	.034	
8.0	.227	.111	.031	.223	.110	.031	.217	.108	.031	.211	.107	.031	.205	.105	.031	
9.0	.208	.101	.028	.205	.100	.028	.200	.099	.028	.194	.097	.028	.189	.096	.028	
10.0	.193	.092	.026	.190	.092	.026	.185	.091	.025	.180	.089	.025	.175	.088	.025	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.201	.153	.110	.172	.132	.095	.118	.091	.066	.068	.052	.038	.022	.017	.012	
2.0	.198	.131	.075	.169	.113	.065	.116	.078	.045	.067	.045	.026	.021	.015	.009	
3.0	.191	.115	.055	.163	.099	.048	.112	.069	.034	.065	.040	.020	.021	.013	.006	
4.0	.182	.103	.043	.156	.089	.038	.107	.062	.026	.062	.036	.016	.020	.012	.005	
5.0	.172	.094	.036	.148	.081	.031	.102	.057	.022	.059	.033	.013	.019	.011	.004	
6.0	.163	.086	.030	.140	.074	.026	.097	.052	.019	.056	.031	.011	.018	.010	.004	
7.0	.154	.079	.026	.133	.069	.023	.092	.048	.016	.053	.028	.010	.017	.009	.003	
8.0	.146	.073	.023	.126	.064	.020	.087	.045	.015	.051	.026	.009	.016	.009	.003	
9.0	.138	.068	.021	.119	.059	.018	.082	.042	.013	.048	.025	.008	.016	.008	.003	
10.0	.131	.064	.019	.113	.055	.017	.078	.039	.012	.046	.023	.007	.015	.008	.002	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271107 4000K

UGR(Unified Glare Rating) Table

Test:U:23.997V I:0.1094A P:2.6253W PF:1.0000 Freq:50.00Hz Lamp Flux:7.67264x1 lm		
NAME: HCP-271107 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	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	17.2	19.3	17.5	19.5	19.8	17.2	19.2	17.5	19.5	19.7
	3H	20.9	22.9	21.3	23.1	23.4	20.9	22.8	21.2	23.1	23.4
	4H	22.9	24.8	23.2	25.1	25.4	22.9	24.7	23.2	25.0	25.3
	6H	25.0	26.8	25.4	27.1	27.5	25.0	26.8	25.3	27.1	27.4
	8H	26.2	28.0	26.6	28.3	28.6	26.1	27.9	26.5	28.2	28.5
	12H	27.5	29.2	27.9	29.6	29.9	27.4	29.2	27.8	29.5	29.8
4H	2H	18.5	20.4	18.9	20.7	21.0	18.5	20.4	18.8	20.7	21.0
	3H	22.3	24.0	22.6	24.3	24.6	22.2	23.9	22.6	24.3	24.6
	4H	24.3	25.9	24.7	26.3	26.7	24.3	25.9	24.7	26.3	26.6
	6H	26.6	28.1	27.0	28.5	28.9	26.5	28.0	27.0	28.4	28.8
	8H	27.9	29.3	28.3	29.7	30.1	27.8	29.2	28.2	29.6	30.0
	12H	29.3	30.6	29.8	31.1	31.5	29.2	30.6	29.7	31.0	31.4
8H	4H	25.2	26.6	25.6	27.0	27.4	25.1	26.6	25.6	26.9	27.4
	6H	27.7	29.0	28.2	29.4	29.8	27.7	28.9	28.1	29.3	29.8
	8H	29.2	30.3	29.7	30.8	31.2	29.1	30.2	29.6	30.7	31.2
	12H	30.8	31.9	31.3	32.3	32.8	30.8	31.8	31.2	32.2	32.7
12H	4H	25.4	26.7	25.9	27.2	27.6	25.4	26.7	25.8	27.1	27.6
	6H	28.1	29.2	28.6	29.7	30.2	28.0	29.2	28.5	29.6	30.1
	8H	29.7	30.7	30.2	31.2	31.6	29.6	30.6	30.1	31.1	31.6
Variations with the observer position at spacings:											
S = 1.0H		+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H		+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H		+ 0.3 / - 0.4					+ 0.3 / - 0.4				

CIE Pub.117, 7.673 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -16.9)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271107 4000K

UTILIZATION FACTORS TABLE

Test:U:23.997V I:0.1094A P:2.6253W PF:1.0000 Freq:50.00Hz Lamp Flux:7.67264x1 lm		
NAME: HCP-271107 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:

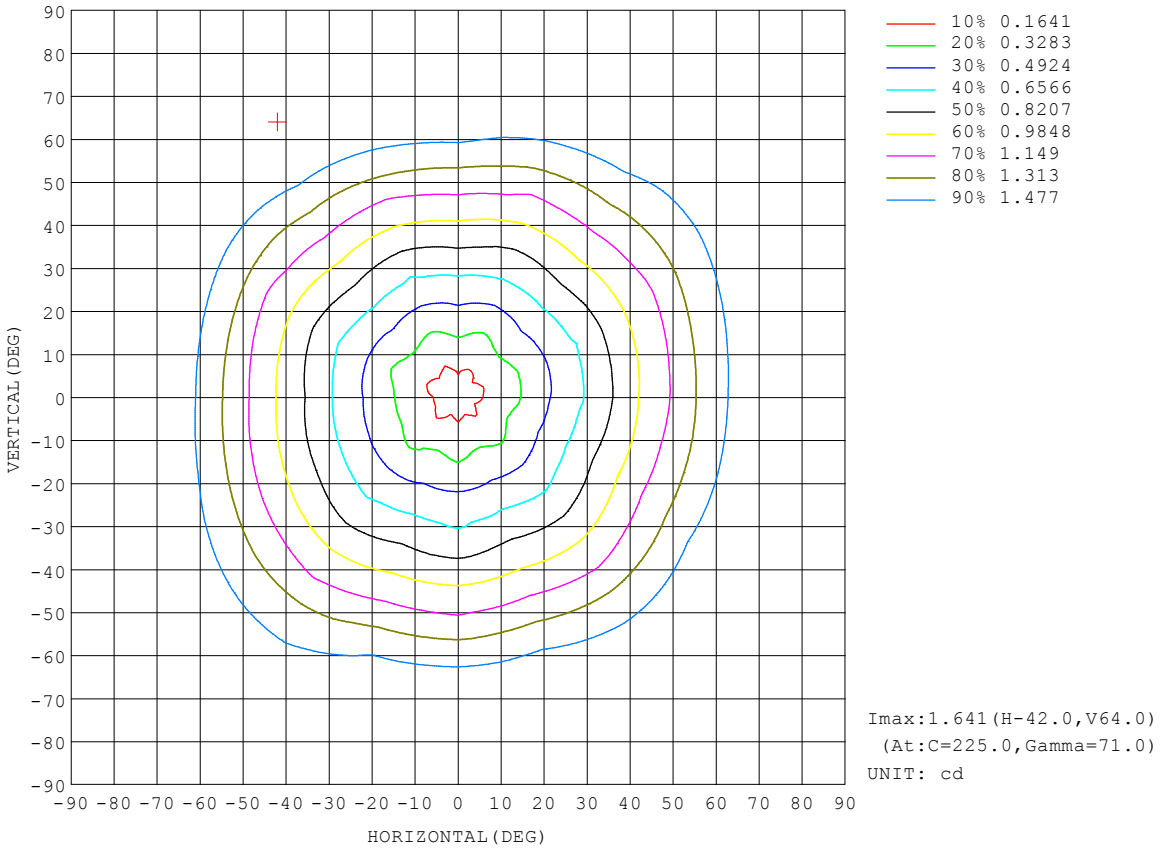
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	40	25	16	39	25	16	38	24	16	8
0.80	48	32	22	47	32	22	45	31	22	13
1.00	55	39	29	54	39	29	51	42	28	18
1.25	63	47	36	61	46	35	57	44	34	24
1.50	68	52	41	66	51	41	62	49	40	29
2.00	76	62	51	74	60	50	69	58	49	37
2.50	82	68	58	79	67	57	74	64	55	43
3.00	87	74	64	84	72	63	79	69	61	49
4.00	93	82	73	90	80	71	84	76	69	57
5.00	97	87	79	94	85	77	88	81	74	62
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271107 4000K

ISOCANDELA DIAGRAM

Test:U:23.997V I:0.1094A P:2.6253W PF:1.0000 Freq:50.00Hz Lamp Flux:7.67264x1 lm		
NAME: HCP-271107 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:

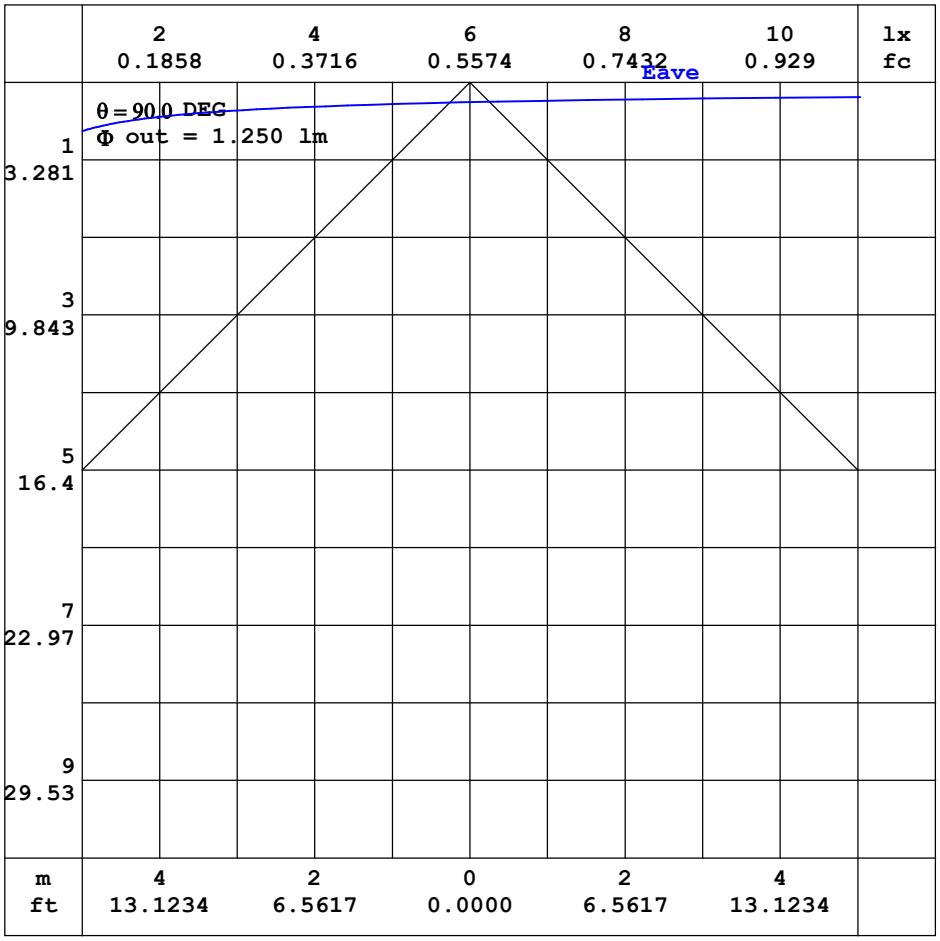


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271107 4000K

AAI CURVES

Test:U:23.997V I:0.1094A P:2.6253W PF:1.0000 Freq:50.00Hz Lamp Flux:7.67264x1 lm		
NAME: HCP-271107 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:



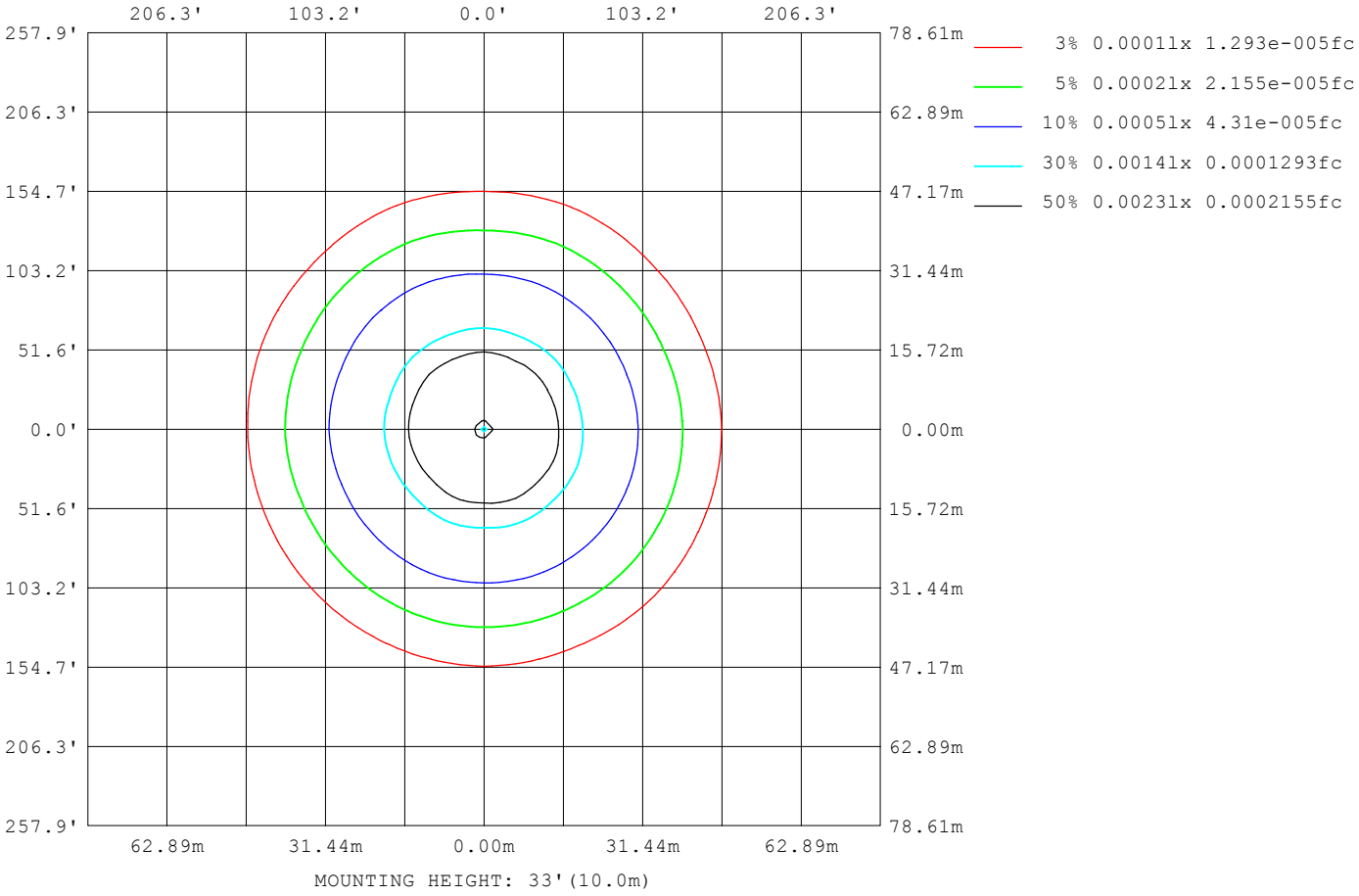
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271107 4000K

ISOLUX DIAGRAM

Test:U:23.997V I:0.1094A P:2.6253W PF:1.0000 Freq:50.00Hz Lamp Flux:7.67264x1 lm		
NAME: HCP-271107 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271107 4000K

LED Avg.L Report

Test:U:23.997V I:0.1094A P:2.6253W PF:1.0000 Freq:50.00Hz Lamp Flux:7.67264x1 lm		
NAME: HCP-271107 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:

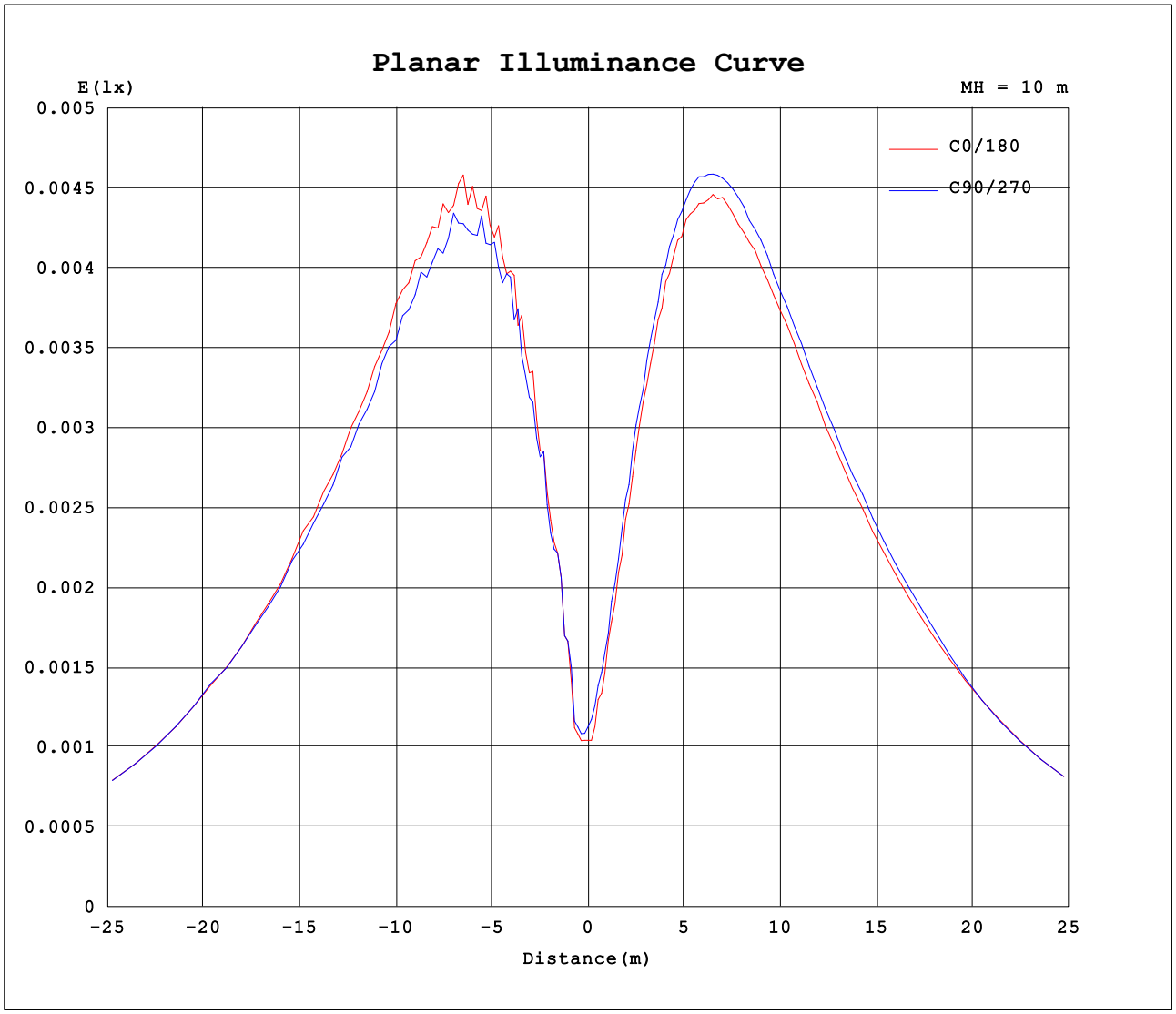
AvgL	cd/m2
L_0~180(65)av	36
L_0~180(75)av	60
L_0~180(85)av	175
L_90~270(65)av	36
L_90~270(75)av	60
L_90~270(85)av	172
L_45(65)av	36
L_45(75)av	60
L_45(85)av	174

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271107 4000K

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271107 4000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:23.997V I:0.1094A P:2.6253W PF:1.0000 Freq:50.00Hz Lamp Flux:7.67264x1 lm		
NAME: HCP-271107 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	0.10	0.10	0.10	0.11	0.11	0.12	0.11	0.11	0.10	0.10	0.10	0.11	0.11	0.12	0.11	0.11			
5	0.14	0.18	0.15	0.18	0.15	0.18	0.11	0.16	0.15	0.11	0.15	0.10	0.16	0.12	0.17	0.13			
10	0.24	0.28	0.23	0.28	0.23	0.27	0.23	0.24	0.23	0.20	0.23	0.22	0.25	0.23	0.26	0.25			
15	0.34	0.39	0.33	0.38	0.33	0.36	0.30	0.34	0.33	0.31	0.34	0.30	0.35	0.30	0.37	0.33			
20	0.44	0.49	0.44	0.48	0.45	0.46	0.41	0.44	0.44	0.40	0.45	0.41	0.46	0.42	0.46	0.44			
25	0.57	0.60	0.56	0.59	0.54	0.57	0.51	0.55	0.56	0.52	0.57	0.53	0.58	0.53	0.58	0.54			
30	0.67	0.72	0.67	0.70	0.65	0.69	0.64	0.66	0.68	0.65	0.70	0.66	0.70	0.66	0.70	0.66			
35	0.80	0.84	0.79	0.82	0.79	0.79	0.75	0.78	0.81	0.79	0.83	0.79	0.83	0.79	0.82	0.79			
40	0.92	0.97	0.92	0.94	0.88	0.91	0.86	0.91	0.93	0.90	0.96	0.93	0.96	0.92	0.94	0.92			
45	1.07	1.09	1.05	1.06	1.00	1.03	0.99	1.03	1.06	1.06	1.10	1.07	1.09	1.05	1.08	1.05			
50	1.17	1.22	1.16	1.19	1.14	1.16	1.11	1.15	1.19	1.16	1.23	1.20	1.23	1.16	1.19	1.14			
55	1.29	1.35	1.32	1.33	1.27	1.29	1.24	1.28	1.32	1.34	1.38	1.36	1.37	1.30	1.32	1.27			
60	1.42	1.47	1.43	1.46	1.41	1.43	1.36	1.40	1.45	1.44	1.51	1.49	1.50	1.42	1.45	1.40			
65	1.49	1.56	1.50	1.55	1.50	1.50	1.47	1.48	1.55	1.55	1.60	1.56	1.54	1.50	1.52	1.49			
70	1.53	1.56	1.56	1.55	1.53	1.52	1.50	1.49	1.56	1.55	1.64	1.63	1.56	1.55	1.52	1.51			
75	1.56	1.56	1.56	1.55	1.53	1.53	1.50	1.49	1.57	1.55	1.63	1.62	1.55	1.56	1.52	1.51			
80	1.55	1.55	1.56	1.52	1.53	1.52	1.50	1.50	1.52	1.55	1.55	1.59	1.52	1.56	1.52	1.51			
85	1.54	1.54	1.54	1.52	1.51	1.51	1.50	1.49	1.51	1.53	1.51	1.53	1.49	1.52	1.51	1.51			
90	1.54	1.56	1.55	1.56	1.51	1.51	1.51	1.49	1.51	1.50	1.51	1.49	1.49	1.50	1.51	1.51			

C Range: 0 - 360DEG
C Interval: 22.5DEG
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