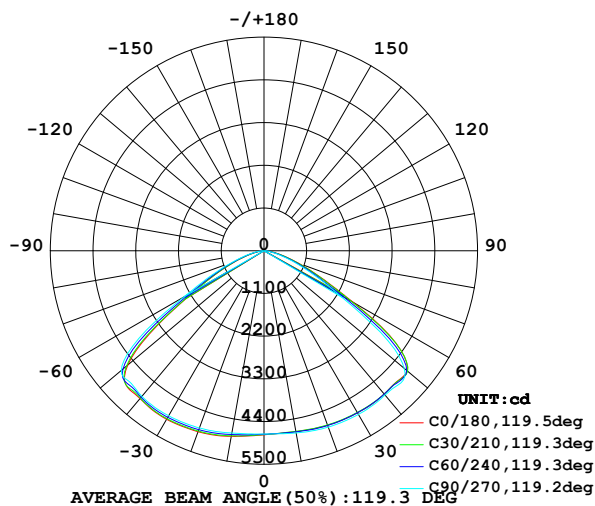


LUMINAIRE PHOTOMETRIC TEST REPORT

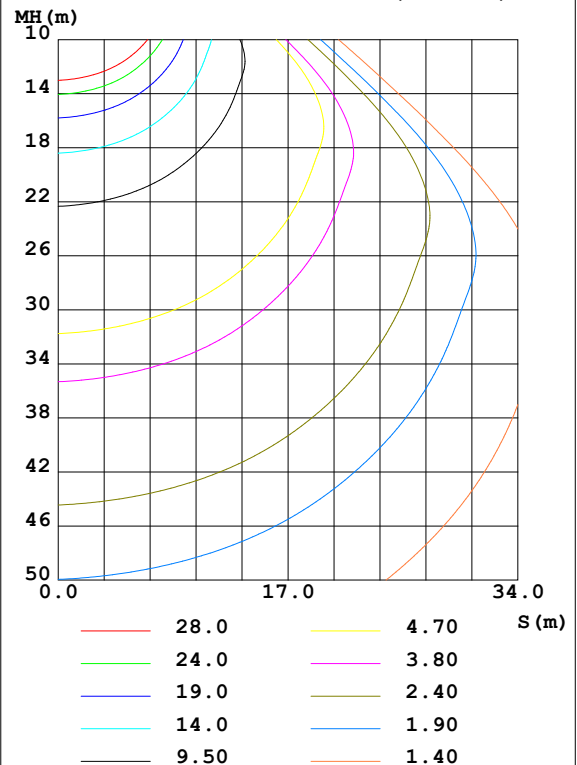
Test:U:220.2V I:0.4881A P:105.4W PF:0.9805 Lamp Flux:16319.6x1 lm		
NAME: 240-HB77-100W	TYPE:	WEIGHT:1.9KG
SPEC.:	DIM.: $\varnothing 240 \times 166\text{MM}$	SERIAL No.:1
MFR.:	SUR.: $\varnothing 184\text{MM}$	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 154.91 lm/W			
MODEL	240-HB77-100W	I _{max} (cd)	5014	S/MH (C0/180)	1.60
NOMINAL POWER (W)	100	LOR (%)	100.0	S/MH (C90/270)	1.59
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	16320	η UP, DN (C0-180)	0.3, 49.5
NOMINAL FLUX (lm)	16319.6	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.3, 49.9
LAMPS INSIDE	1	η up (%)	0.7	CIBSE SHR NOM	1.75
TEST VOLTAGE (V)	220	η down (%)	99.3	CIBSE SHR MAX	1.75

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-4-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.290
 Humidity: 65.0%
 Test Distance: 11.710m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	4728	4729	4763	4797	4852	4823	4767	4710	0- 10	453.0	453.0	2.78,2.78
20	4782	4781	4832	4898	4959	4922	4856	4790	10- 20	1365	1818	11.1,11.1
30	4818	4813	4866	4956	5011	4974	4908	4847	20- 30	2258	4076	25,25
40	4817	4816	4850	4927	4967	4938	4892	4850	30- 40	3078	7154	43.8,43.8
50	4810	4811	4714	4556	4582	4681	4796	4771	40- 50	3759	10913	66.9,66.9
60	2648	2457	2152	2000	2040	2118	2388	2610	50- 60	3257	14171	86.8,86.8
70	950.3	890.3	777.5	720.7	745.5	778.4	871.7	922.0	60- 70	1434	15605	95.6,95.6
80	259.8	235.0	192.5	180.5	185.1	201.6	240.2	252.0	70- 80	502.5	16108	98.7,98.7
90	24.44	21.50	18.12	17.31	22.69	23.40	26.49	30.02	80- 90	104.8	16212	99.3,99.3
100	15.88	15.69	15.49	15.28	17.85	18.08	18.57	18.67	90-100	20.15	16233	99.5,99.5
110	15.74	15.25	15.16	15.02	16.30	16.37	16.49	16.47	100-110	17.16	16250	99.6,99.6
120	15.82	15.56	15.55	15.45	16.34	16.34	16.34	16.27	110-120	15.72	16265	99.7,99.7
130	16.13	15.99	15.94	15.82	16.59	16.60	16.59	16.44	120-130	14.44	16280	99.8,99.8
140	16.28	16.21	16.18	16.08	17.28	17.30	17.26	17.16	130-140	12.73	16293	99.8,99.8
150	16.95	16.99	17.06	17.02	18.59	18.52	18.40	18.28	140-150	10.78	16303	99.9,99.9
160	18.65	18.79	19.00	18.95	19.93	19.86	19.74	19.57	150-160	8.526	16312	100,100
170	20.64	20.80	20.97	20.87	21.07	21.04	20.96	20.83	160-170	5.688	16318	100,100
180	21.19	21.28	21.26	21.10	21.23	21.28	21.23	21.10	170-180	2.017	16320	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

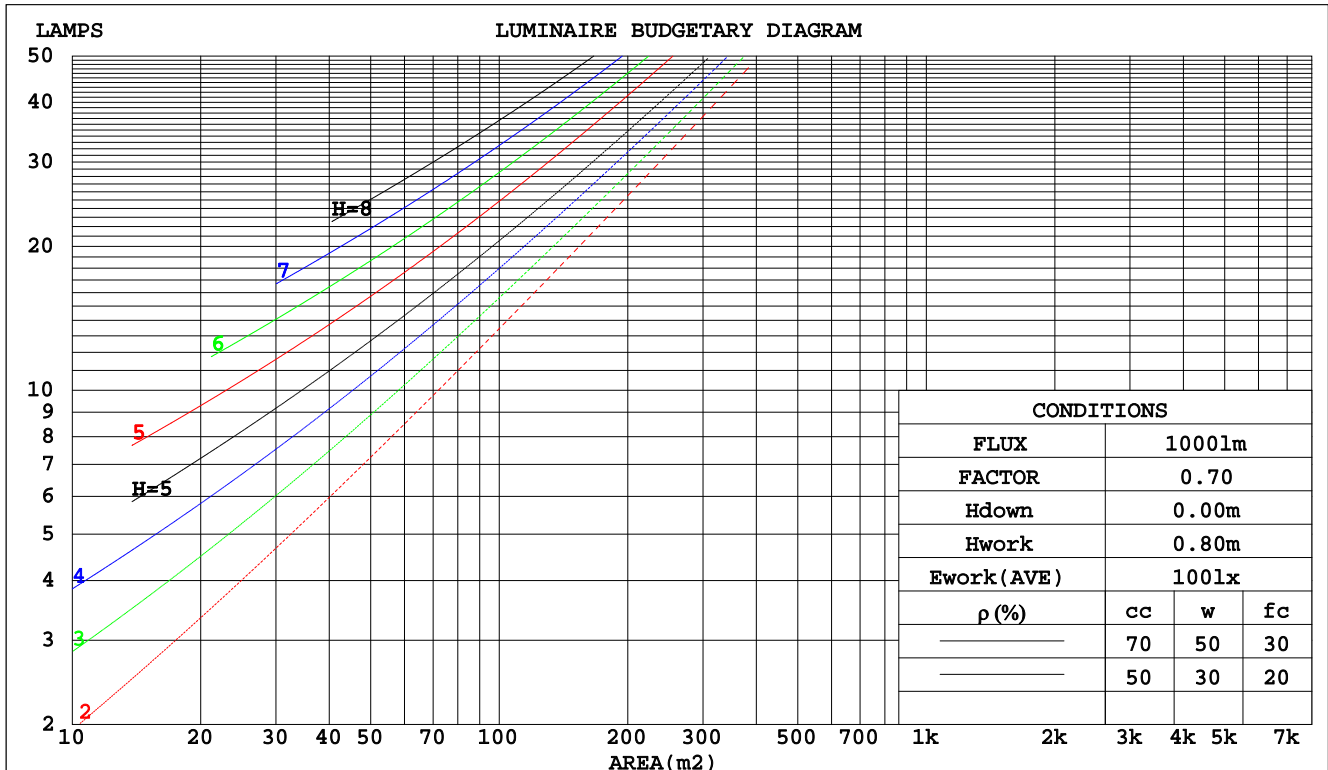
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-4-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.290
 Humidity:65.0%
 Test Distance:11.710m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.2V I:0.4881A P:105.4W PF:0.9805 Lamp Flux:16319.6x1 lm		
NAME: 240-HB77-100W	TYPE:	WEIGHT:1.9KG
SPEC.:	DIM.: $\varnothing 240 \times 166\text{MM}$	SERIAL No.:1
MFR.:	SUR.: $\varnothing 184\text{MM}$	PROTECTION 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	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	1.01	1.01	1.01	.99
1.0	1.05	1.02	.98	1.03	.90	.96	.99	.96	.93	.95	.92	.90	.91	.89	.88	.85
2.0	.93	.86	.81	.91	.85	.80	.87	.82	.78	.84	.80	.76	.81	.77	.74	.72
3.0	.81	.74	.67	.80	.73	.67	.77	.71	.66	.74	.69	.64	.71	.67	.63	.61
4.0	.72	.64	.57	.71	.63	.57	.68	.61	.56	.66	.60	.55	.64	.58	.54	.52
5.0	.64	.55	.49	.63	.55	.48	.61	.53	.48	.59	.52	.47	.57	.51	.47	.45
6.0	.57	.49	.42	.56	.48	.42	.55	.47	.42	.53	.46	.41	.51	.45	.41	.39
7.0	.52	.43	.37	.51	.43	.37	.49	.42	.36	.48	.41	.36	.46	.40	.36	.34
8.0	.47	.38	.33	.46	.38	.32	.45	.37	.32	.44	.37	.32	.42	.36	.32	.30
9.0	.43	.35	.29	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.25	.24



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-4-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.290
 Humidity: 65.0%
 Test Distance: 11.710m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:220.2V I:0.4881A P:105.4W PF:0.9805 Lamp Flux:16319.6x1 lm					
NAME: 240-HB77-100W			TYPE:		WEIGHT:1.9KG
SPEC.:			DIM.: \varnothing 240*166MM		SERIAL No.:1
MFR.:			SUR.: \varnothing 184MM		PROTECTION 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	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.277	.158	.050	.270	.154	.049	.256	.147	.047	.244	.141	.045	.233	.135	.043	
2.0	.270	.148	.045	.263	.145	.045	.252	.140	.043	.241	.135	.042	.231	.130	.041	
3.0	.256	.136	.041	.250	.134	.040	.239	.130	.039	.230	.126	.039	.221	.122	.038	
4.0	.240	.125	.037	.235	.123	.036	.226	.120	.036	.217	.116	.035	.209	.113	.035	
5.0	.225	.114	.033	.220	.113	.033	.212	.110	.032	.204	.108	.032	.197	.105	.032	
6.0	.210	.105	.030	.206	.104	.030	.199	.102	.030	.192	.100	.029	.185	.098	.029	
7.0	.197	.097	.028	.193	.096	.027	.187	.094	.027	.180	.092	.027	.174	.091	.027	
8.0	.185	.090	.025	.182	.089	.025	.176	.088	.025	.170	.086	.025	.165	.085	.025	
9.0	.174	.084	.023	.171	.083	.023	.166	.082	.023	.160	.080	.023	.156	.079	.023	
10.0	.164	.079	.022	.161	.078	.022	.156	.077	.022	.152	.075	.021	.147	.074	.021	

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	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.195	.195	.195	.167	.167	.167	.114	.114	.114	.066	.066	.066	.021	.021	.021	
1.0	.183	.161	.142	.157	.139	.122	.107	.095	.085	.062	.055	.049	.020	.018	.016	
2.0	.174	.137	.106	.149	.118	.091	.102	.082	.064	.059	.047	.037	.019	.015	.012	
3.0	.167	.119	.081	.143	.103	.071	.098	.072	.050	.057	.042	.029	.018	.014	.010	
4.0	.160	.106	.065	.137	.092	.056	.094	.064	.040	.055	.037	.023	.018	.012	.008	
5.0	.153	.096	.053	.131	.083	.046	.090	.058	.033	.052	.034	.019	.017	.011	.006	
6.0	.146	.087	.045	.126	.075	.039	.087	.053	.028	.050	.031	.016	.016	.010	.005	
7.0	.140	.080	.039	.120	.070	.034	.083	.049	.024	.048	.029	.014	.016	.009	.005	
8.0	.134	.075	.034	.115	.065	.030	.080	.045	.021	.046	.027	.013	.015	.009	.004	
9.0	.128	.070	.030	.110	.061	.027	.076	.043	.019	.044	.025	.011	.014	.008	.004	
10.0	.122	.066	.028	.106	.057	.024	.073	.040	.017	.043	.024	.010	.014	.008	.003	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-4-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.290
Humidity:65.0%
Test Distance:11.710m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.2V I:0.4881A P:105.4W PF:0.9805 Lamp Flux:16319.6x1 lm											
NAME: 240-HB77-100W					TYPE:			WEIGHT:1.9KG			
SPEC.:					DIM.: \varnothing 240*166MM			SERIAL No.:1			
MFR.:					SUR.: \varnothing 184MM			PROTECTION 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		30.6	32.0	30.8	32.3	32.5	30.1	31.6	30.4	31.8	32.0
3H		31.0	32.3	31.3	32.6	32.8	30.4	31.8	30.7	32.0	32.3
4H		31.1	32.4	31.4	32.6	32.9	30.5	31.8	30.8	32.0	32.3
6H		31.1	32.3	31.4	32.6	32.8	30.5	31.7	30.8	31.9	32.2
8H		31.0	32.2	31.4	32.5	32.8	30.4	31.6	30.8	31.9	32.2
12H		31.0	32.1	31.4	32.4	32.8	30.4	31.5	30.7	31.8	32.1
4H 2H		30.8	32.0	31.1	32.3	32.6	30.4	31.7	30.7	31.9	32.2
3H		31.3	32.4	31.7	32.7	33.0	30.8	31.9	31.2	32.2	32.5
4H		31.4	32.4	31.8	32.8	33.1	30.9	31.9	31.3	32.2	32.6
6H		31.5	32.4	31.9	32.7	33.1	30.9	31.8	31.3	32.2	32.6
8H		31.5	32.3	31.9	32.7	33.1	30.9	31.7	31.3	32.1	32.5
12H		31.5	32.2	31.9	32.6	33.1	30.9	31.7	31.3	32.0	32.5
8H 4H		31.4	32.2	31.8	32.6	33.0	30.9	31.7	31.3	32.1	32.5
6H		31.5	32.2	32.0	32.6	33.1	31.0	31.7	31.4	32.1	32.5
8H		31.6	32.2	32.0	32.6	33.1	31.0	31.6	31.5	32.0	32.5
12H		31.6	32.1	32.1	32.5	33.0	31.0	31.5	31.5	32.0	32.4
12H 4H		31.4	32.1	31.8	32.5	32.9	30.9	31.6	31.3	32.0	32.4
6H		31.5	32.1	32.0	32.5	33.0	31.0	31.6	31.4	32.0	32.5
8H		31.6	32.1	32.0	32.5	33.0	31.0	31.5	31.5	32.0	32.4
Variations with the observer position at spacings:											
S = 1.0H		+ 0.1 / - 0.2					+ 0.2 / - 0.4				
1.5H		+ 0.9 / - 1.5					+ 0.8 / - 1.6				
2.0H		+ 1.3 / - 1.8					+ 1.5 / - 1.9				

CIE Pub.117 Corrected 16320 lm Total Lamp Luminous Flux.(8log(F/F0) = 9.7)

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-4-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.290
Humidity:65.0%
Test Distance:11.710m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.2V I:0.4881A P:105.4W PF:0.9805 Lamp Flux:16319.6x1 lm		
NAME: 240-HB77-100W	TYPE:	WEIGHT:1.9KG
SPEC.:	DIM.: $\varnothing 240 \times 166\text{MM}$	SERIAL No.:1
MFR.:	SUR.: $\varnothing 184\text{MM}$	PROTECTION 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	56	44	37	55	44	37	54	43	36	30
0.80	67	55	48	66	55	48	64	54	47	40
1.00	77	66	59	76	65	59	73	67	58	51
1.25	85	74	68	83	74	67	80	72	66	59
1.50	90	80	74	88	79	73	85	78	72	65
2.00	97	89	83	95	88	82	91	85	80	73
2.50	100	93	87	98	92	87	94	89	85	77
3.00	104	97	92	101	96	91	97	93	89	80
4.00	107	102	98	105	100	96	101	97	93	85
5.00	109	105	101	107	103	99	102	99	96	87
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHRNM = 1.25										

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-4-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.290
Humidity:65.0%
Test Distance:11.710m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.2V I:0.4881A P:105.4W PF:0.9805 Lamp Flux:16319.6x1 lm		
NAME: 240-HB77-100W	TYPE:	WEIGHT:1.9KG
SPEC.:	DIM.: $\phi 240 \times 166\text{MM}$	SERIAL No.:1
MFR.:	SUR.: $\phi 184\text{MM}$	PROTECTION ANGLE:

Conical surface Flux(90deg):

8959.5 lm

%lum = 54.9%

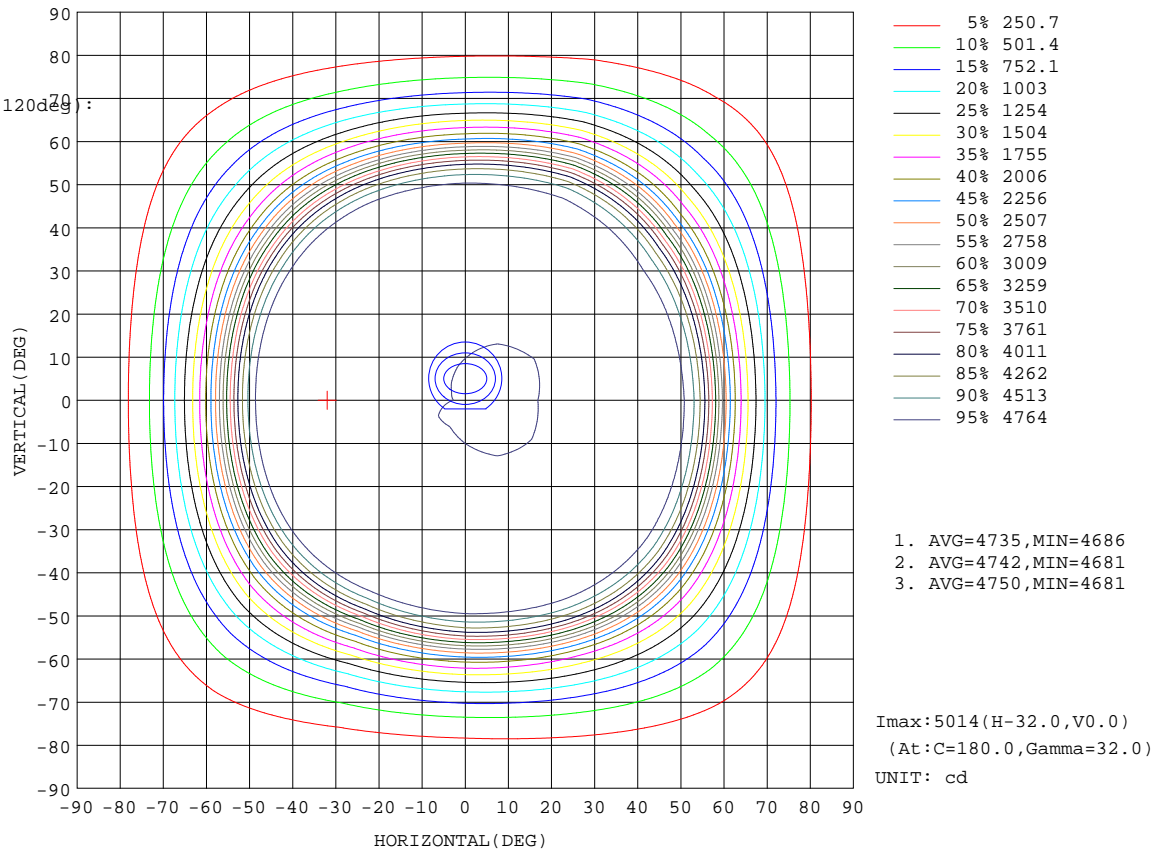
%lamp = 54.9%

Conical surface Flux(120deg):

14171 lm

%lum = 86.8%

%lamp = 86.8%



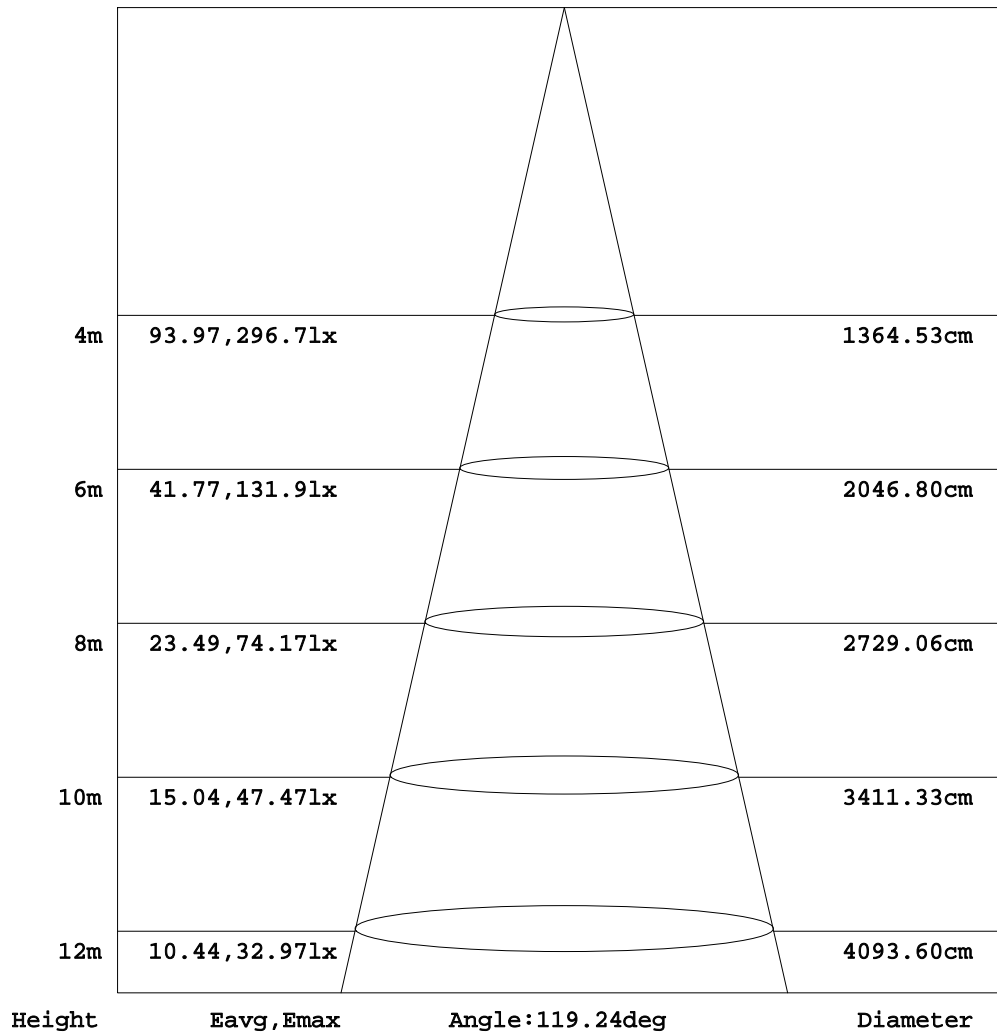
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-4-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.290
Humidity:65.0%
Test Distance:11.710m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.2V I:0.4881A P:105.4W PF:0.9805 Lamp Flux:16319.6x1 lm		
NAME: 240-HB77-100W	TYPE:	WEIGHT:1.9KG
SPEC.:	DIM.: $\phi 240 \times 166\text{MM}$	SERIAL No.:1
MFR.:	SUR.: $\phi 184\text{MM}$	PROTECTION ANGLE:

Flux out:14171 lm



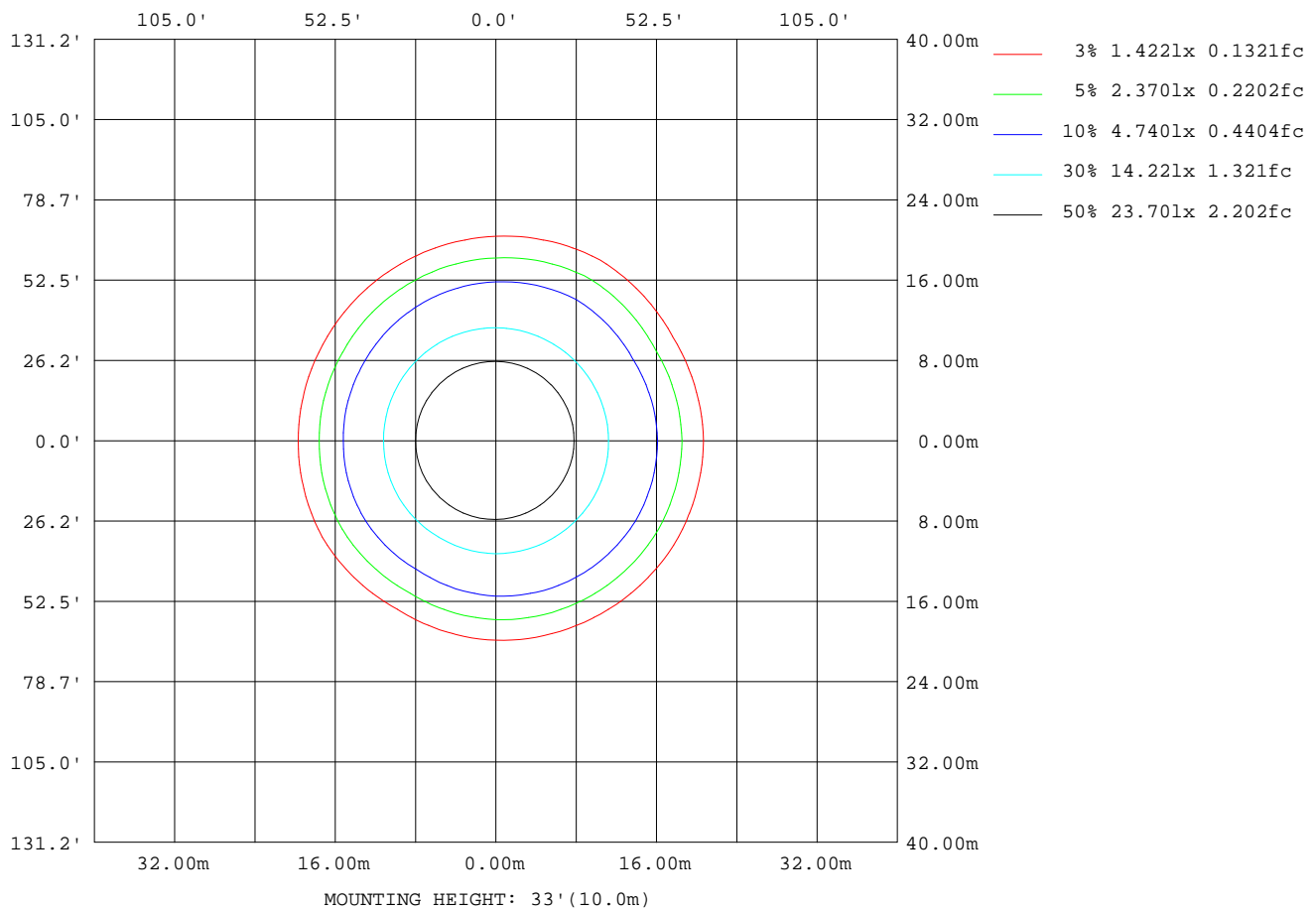
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2022-4-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.290
Humidity: 65.0%
Test Distance: 11.710m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:220.2V I:0.4881A P:105.4W PF:0.9805 Lamp Flux:16319.6x1 lm		
NAME: 240-HB77-100W	TYPE:	WEIGHT:1.9KG
SPEC.:	DIM.: $\varnothing 240 \times 166\text{MM}$	SERIAL No.:1
MFR.:	SUR.: $\varnothing 184\text{MM}$	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-4-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.290
 Humidity: 65.0%
 Test Distance: 11.710m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:220.2V I:0.4881A P:105.4W PF:0.9805 Lamp Flux:16319.6x1 lm		
NAME: 240-HB77-100W	TYPE:	WEIGHT:1.9KG
SPEC.:	DIM.: $\varnothing 240 \times 166\text{MM}$	SERIAL No.:1
MFR.:	SUR.: $\varnothing 184\text{MM}$	PROTECTION ANGLE:

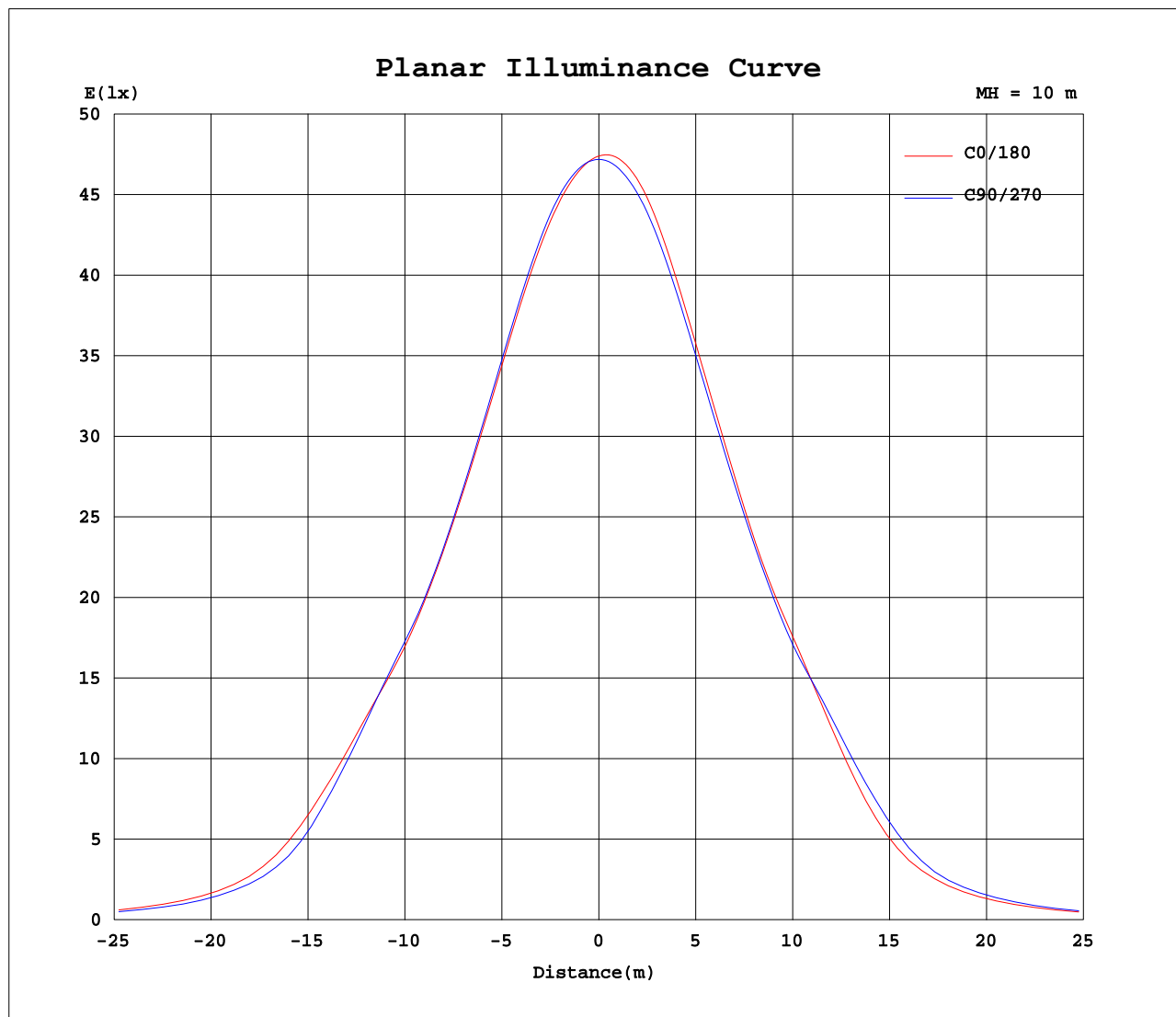
AvgL	cd/m2
L_0~180 (65) av	75046
L_0~180 (75) av	39264
L_0~180 (85) av	22189
L_90~270 (65) av	73410
L_90~270 (75) av	38537
L_90~270 (85) av	21351
L_45 (65) av	73539
L_45 (75) av	38874
L_45 (85) av	21455

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-4-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.290
 Humidity:65.0%
 Test Distance:11.710m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2022-4-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.290
Humidity: 65.0%
Test Distance: 11.710m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.2V I:0.4881A P:105.4W PF:0.9805 Lamp Flux:16319.6x1 lm																	
NAME: 240-HB77-100W									TYPE:						WEIGHT:1.9KG		
SPEC.:									DIM.: φ240*166MM						SERIAL No.:1		
MFR.:									SUR.:φ184MM						PROTECTION ANGLE:		

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	4740	4733	4725	4719	4711	4695	4740	4733	4725	4719	4711	4695						
5	4720	4715	4720	4731	4743	4737	4788	4778	4756	4732	4704	4681						
10	4728	4723	4735	4763	4795	4799	4852	4839	4806	4767	4723	4697						
15	4753	4748	4764	4802	4846	4864	4917	4900	4862	4816	4764	4734						
20	4782	4774	4789	4832	4884	4911	4959	4941	4904	4856	4805	4774						
25	4802	4793	4805	4852	4913	4947	4989	4970	4932	4886	4837	4805						
30	4818	4807	4818	4866	4935	4977	5011	4995	4953	4908	4863	4830						
35	4828	4819	4826	4868	4933	4983	5008	4994	4957	4916	4878	4846						
40	4817	4815	4816	4850	4901	4954	4967	4952	4925	4892	4867	4832						
45	4796	4801	4825	4885	4955	4988	4974	4961	4898	4833	4810	4779						
50	4810	4828	4794	4714	4532	4579	4582	4623	4739	4796	4807	4735						
55	4153	4137	3942	3673	3245	3385	3356	3430	3690	3937	4175	3948						
60	2648	2562	2352	2152	1938	2063	2040	2046	2191	2388	2737	2484						
65	1589	1556	1412	1306	1187	1286	1265	1280	1351	1486	1627	1501						
70	950	930	851	778	689	753	746	757	800	872	957	887						
75	520	522	463	409	371	405	394	402	437	489	536	487						
80	260	250	220	192	169	192	185	188	215	240	266	238						
85	104	99.1	83.6	70.2	55.3	69.8	69.9	71.0	84.1	97.3	114	97.2						
90	24.4	23.6	19.4	18.1	16.8	17.8	22.7	23.0	23.8	26.5	33.5	26.5						
95	16.3	16.2	16.1	15.9	15.7	15.7	19.7	19.9	20.3	20.6	20.8	20.4						
100	15.9	15.7	15.6	15.5	15.3	15.2	17.8	17.9	18.2	18.6	18.8	18.5						
105	15.8	15.4	15.3	15.2	15.1	15.0	16.7	16.8	16.9	17.1	17.2	17.1						
110	15.7	15.3	15.2	15.2	15.1	14.9	16.3	16.3	16.4	16.5	16.5	16.4						
115	15.7	15.4	15.3	15.3	15.3	15.1	16.3	16.3	16.3	16.3	16.3	16.3						
120	15.8	15.6	15.5	15.5	15.5	15.4	16.3	16.3	16.4	16.3	16.3	16.3						
125	16.0	15.8	15.8	15.8	15.7	15.6	16.5	16.4	16.4	16.4	16.3	16.3						
130	16.1	16.0	16.0	15.9	15.9	15.8	16.6	16.6	16.6	16.6	16.4	16.5						
135	16.2	16.1	16.1	16.0	15.9	15.8	16.8	16.9	16.9	16.9	16.7	16.8						
140	16.3	16.2	16.2	16.2	16.1	16.0	17.3	17.3	17.3	17.3	17.2	17.1						
145	16.5	16.5	16.5	16.5	16.5	16.4	17.9	17.9	17.9	17.8	17.7	17.7						
150	17.0	17.0	17.0	17.1	17.1	16.9	18.6	18.6	18.5	18.4	18.3	18.3						
155	17.7	17.7	17.8	17.9	18.0	17.8	19.2	19.2	19.1	19.0	18.9	18.9						
160	18.7	18.7	18.8	19.0	19.1	18.8	19.9	19.9	19.8	19.7	19.6	19.6						
165	19.7	19.8	19.9	20.1	20.1	19.9	20.6	20.5	20.5	20.4	20.3	20.2						
170	20.6	20.7	20.9	21.0	21.0	20.8	21.1	21.1	21.0	21.0	20.8	20.8						
175	21.1	21.2	21.3	21.3	21.2	21.1	21.4	21.4	21.4	21.3	21.1	21.2						
180	21.2	21.3	21.3	21.3	21.1	21.1	21.2	21.3	21.3	21.2	21.1	21.1						

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