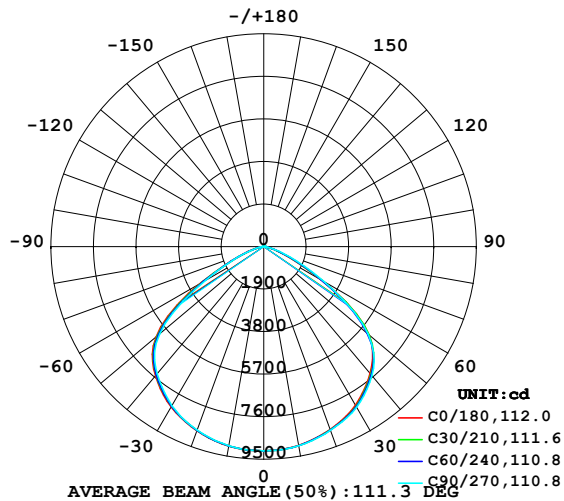


LUMINAIRE PHOTOMETRIC TEST REPORT

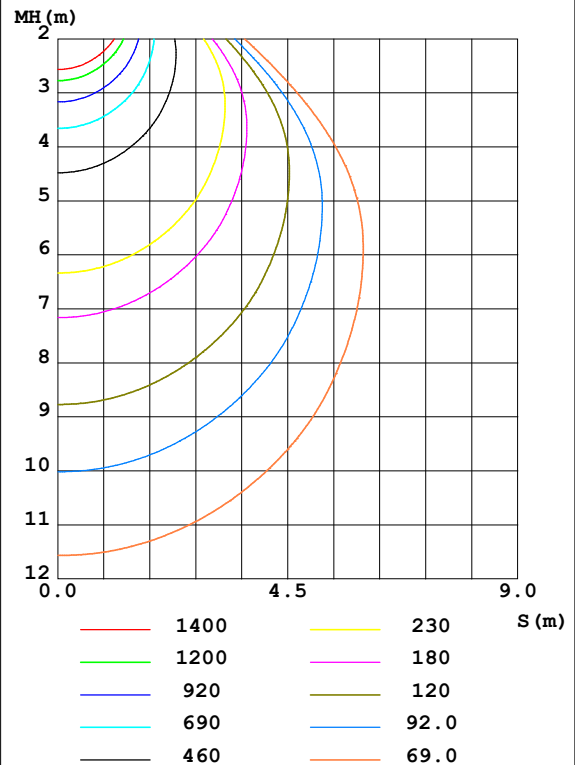
NAME: AHBL200W-C408-MOMX-P12-00B	TYPE:LED	WEIGHT:4.02KG
SPEC.:4080120	DIM.: 382*382*160	SERIAL No.:001
MFR.:	SUR.:	Shielding Angle:120

DATA OF LAMP		PHOTOMETRIC DATA Eff: 123.01 lm/W			
MOHBL200W-C408-MOMX-P12-00B		Imax(cd)	9118	S/MH(C0/180)	1.35
NOMINAL POWER(W)	200W	LOR(%)	100.0	S/MH(C90/270)	1.34
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	24323	η UP,DN(C0-180)	0.4,49.6
NOMINAL FLUX(lm)	24323.4	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.4,49.6
LAMPS INSIDE	1	η up(%)	0.8	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120.0	η down(%)	99.2	CIBSE SHR MAX	1.55

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:Admin
Test Date:2018-11-24

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
Test Distance:8.320m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

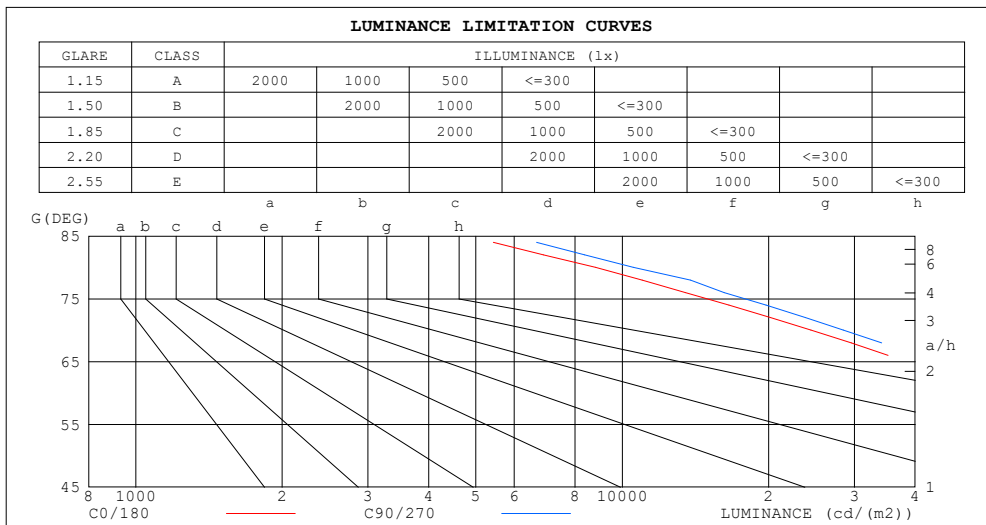
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	9016	9023	9034	9036	9045	9038	9028	9020	0- 10	866.6	866.6	3.56,3.56
20	8689	8711	8729	8735	8746	8734	8715	8700	10- 20	2515	3382	13.9,13.9
30	8189	8247	8294	8291	8273	8240	8200	8181	20- 30	3927	7308	30,30
40	7392	7456	7516	7525	7529	7478	7413	7390	30- 40	4933	12242	50.3,50.3
50	6153	6098	6087	6208	6284	6186	6076	6096	40- 50	5330	17571	72.2,72.2
60	2904	2977	3094	3168	3227	3123	2978	3004	50- 60	4204	21776	89.5,89.5
70	825.1	886.5	977.3	987.7	977.3	930.2	902.0	864.5	60- 70	1802	23578	96.9,96.9
80	151.2	161.2	183.7	186.6	184.2	170.0	154.6	147.3	70- 80	494.7	24073	99,99
90	3.440	3.426	4.168	4.897	4.866	3.921	3.744	3.806	80- 90	65.10	24138	99.2,99.2
100	8.842	8.648	8.362	8.367	9.073	9.137	9.403	9.643	90-100	6.460	24144	99.3,99.3
110	18.04	17.53	17.31	17.16	18.33	18.25	18.56	18.88	100-110	14.10	24159	99.3,99.3
120	28.20	27.95	27.58	27.54	28.89	29.08	29.21	29.79	110-120	23.00	24182	99.4,99.4
130	37.55	37.27	37.06	36.83	38.11	38.42	38.73	38.87	120-130	29.84	24211	99.5,99.5
140	45.18	45.03	44.87	44.51	45.44	45.56	45.89	46.15	130-140	32.18	24244	99.7,99.7
150	52.95	52.73	52.44	52.26	52.74	52.77	52.87	53.09	140-150	30.72	24274	99.8,99.8
160	58.95	58.83	58.78	58.54	58.68	58.64	58.96	58.94	150-160	25.80	24300	99.9,99.9
170	62.97	63.12	62.94	63.01	63.14	63.11	62.91	63.38	160-170	17.25	24317	100,100
180	65.22	65.35	65.62	65.55	65.60	65.66	65.54	65.58	170-180	6.115	24323	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:2018-11-24

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:8.320m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

NAME: AHBL200W-C408-MOMX-P12-00B	TYPE:LED	WEIGHT:4.02KG
SPEC.:4080120	DIM.: 382*382*160	SERIAL No.:001
MFR.:	SUR.:	Shielding Angle:120



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	6515	7993
80	8816	10544
75	17657	21045
70	24423	28488
65	43141	48330
60	58792	61691
55	90572	87004
50	96898	94400
45	100113	100055

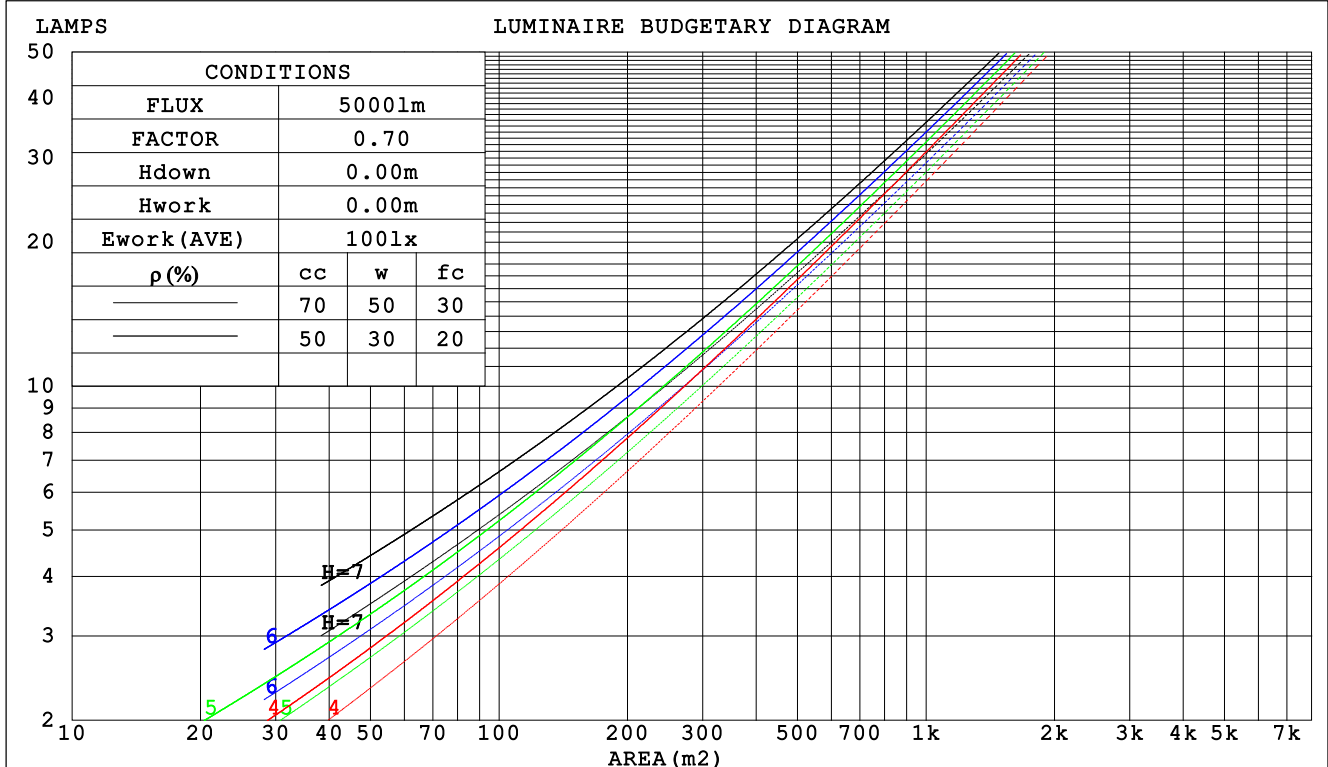
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Admin
Test Date:2018-11-24

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
Test Distance:8.320m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: AHBL200W-C408-MOMX-P12-00B	TYPE:LED	WEIGHT:4.02KG
SPEC.:4080120	DIM.: 382*382*160	SERIAL No.:001
MFR.:	SUR.:	Shielding Angle:120

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	1.06	1.03	.00	1.04	1.01	.98	.00	.97	.95	.96	.94	.92	.92	.90	.89	.87
2.0	.94	.88	.83	.92	.87	.82	.89	.84	.80	.86	.82	.78	.82	.79	.77	.75
3.0	.84	.76	.71	.82	.75	.70	.79	.73	.69	.76	.71	.67	.74	.70	.66	.64
4.0	.75	.67	.60	.73	.66	.60	.71	.64	.59	.68	.63	.58	.66	.61	.57	.55
5.0	.67	.58	.52	.66	.58	.52	.64	.57	.51	.62	.56	.51	.60	.54	.50	.48
6.0	.60	.52	.46	.59	.51	.46	.57	.50	.45	.56	.49	.45	.54	.49	.44	.42
7.0	.55	.46	.40	.54	.46	.40	.52	.45	.40	.51	.44	.40	.49	.44	.39	.37
8.0	.50	.42	.36	.49	.41	.36	.48	.41	.36	.46	.40	.35	.45	.39	.35	.33
9.0	.46	.38	.32	.45	.37	.32	.44	.37	.32	.43	.36	.32	.42	.36	.32	.30
10.0	.42	.34	.29	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.29	.27



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:2018-11-24

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:8.320m [K=1.0000]
 Remarks:

WEC AND CCEC

NAME: AHBL200W-C408-MOMX-P12-00B	TYPE:LED	WEIGHT:4.02KG
SPEC.:4080120	DIM.: 382*382*160	SERIAL No.:001
MFR.:	SUR.:	Shielding Angle:120

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	.258	.147	.046	.251	.143	.045	.238	.136	.044	.225	.130	.042	.214	.124	.040		
2.0	.253	.139	.043	.247	.136	.042	.235	.131	.041	.224	.126	.039	.214	.121	.038		
3.0	.241	.128	.038	.236	.126	.038	.225	.122	.037	.216	.118	.036	.207	.114	.035		
4.0	.227	.118	.035	.222	.116	.034	.213	.113	.034	.205	.110	.033	.197	.107	.033		
5.0	.214	.109	.032	.209	.107	.031	.201	.105	.031	.193	.102	.030	.186	.100	.030		
6.0	.201	.101	.029	.197	.099	.029	.190	.097	.028	.183	.095	.028	.176	.093	.028		
7.0	.189	.093	.026	.185	.092	.026	.179	.090	.026	.172	.088	.026	.167	.087	.025		
8.0	.178	.087	.024	.175	.086	.024	.169	.084	.024	.163	.083	.024	.158	.081	.024		
9.0	.167	.081	.023	.165	.080	.023	.159	.079	.022	.154	.077	.022	.150	.076	.022		
10.0	.158	.076	.021	.156	.075	.021	.151	.074	.021	.146	.073	.021	.142	.071	.021		

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	.196	.196	.196	.168	.168	.168	.114	.114	.114	.066	.066	.066	.021	.021	.021	
1.0	.183	.162	.144	.156	.139	.124	.107	.096	.086	.062	.056	.050	.020	.018	.016	
2.0	.173	.138	.109	.148	.119	.094	.102	.082	.065	.059	.048	.038	.019	.015	.013	
3.0	.165	.120	.084	.141	.104	.073	.097	.072	.051	.056	.042	.030	.018	.014	.010	
4.0	.157	.106	.068	.135	.092	.059	.093	.064	.041	.054	.038	.024	.017	.012	.008	
5.0	.150	.096	.056	.129	.083	.048	.089	.058	.034	.052	.034	.020	.017	.011	.007	
6.0	.144	.087	.047	.124	.076	.041	.085	.053	.029	.049	.031	.017	.016	.010	.006	
7.0	.138	.081	.041	.118	.070	.035	.082	.049	.025	.048	.029	.015	.015	.009	.005	
8.0	.132	.075	.036	.113	.065	.031	.078	.046	.022	.046	.027	.013	.015	.009	.004	
9.0	.126	.070	.032	.109	.061	.028	.075	.043	.020	.044	.025	.012	.014	.008	.004	
10.0	.121	.066	.029	.104	.057	.025	.072	.040	.018	.042	.024	.011	.014	.008	.004	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Admin
Test Date:2018-11-24

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
Test Distance:8.320m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: AHBL200W-C408-MOMX-P12-00B					TYPE:LED					WEIGHT:4.02KG				
SPEC.:4080120					DIM.: 382*382*160					SERIAL No.:001				
MFR.:					SUR.:					Shielding Angle:120				
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					16.8	18.2	17.1	18.5	18.7	16.8	18.2	17.0	18.4	18.6
3H					17.0	18.3	17.3	18.5	18.8	17.1	18.3	17.4	18.6	18.8
4H					17.0	18.2	17.3	18.5	18.7	17.0	18.3	17.4	18.5	18.8
6H					16.9	18.0	17.2	18.3	18.6	17.0	18.1	17.3	18.4	18.7
8H					16.9	18.0	17.2	18.3	18.6	16.9	18.0	17.3	18.3	18.6
12H					16.8	17.9	17.2	18.2	18.5	16.9	18.0	17.3	18.3	18.6
4H 2H					17.0	18.2	17.3	18.5	18.7	16.9	18.1	17.2	18.4	18.7
3H					17.2	18.3	17.6	18.6	18.9	17.3	18.3	17.6	18.6	18.9
4H					17.2	18.2	17.6	18.5	18.8	17.3	18.3	17.7	18.6	18.9
6H					17.2	18.0	17.6	18.4	18.7	17.3	18.1	17.7	18.5	18.9
8H					17.1	17.9	17.6	18.3	18.7	17.2	18.0	17.7	18.4	18.8
12H					17.1	17.8	17.5	18.2	18.6	17.2	17.9	17.6	18.3	18.7
8H 4H					17.1	17.9	17.6	18.3	18.7	17.2	18.0	17.7	18.4	18.8
6H					17.1	17.8	17.6	18.2	18.6	17.2	17.9	17.7	18.3	18.7
8H					17.1	17.6	17.6	18.1	18.5	17.2	17.8	17.7	18.2	18.7
12H					17.1	17.5	17.5	18.0	18.5	17.2	17.6	17.7	18.1	18.6
12H 4H					17.1	17.8	17.5	18.2	18.6	17.2	17.9	17.6	18.3	18.7
6H					17.1	17.6	17.6	18.1	18.5	17.2	17.7	17.7	18.2	18.6
8H					17.1	17.5	17.5	18.0	18.5	17.2	17.6	17.7	18.1	18.6
Variations with the observer position at spacings:														
S = 1.0H					+ 0.5 / - 0.6					+ 0.5 / - 0.7				
1.5H					+ 0.6 / - 1.3					+ 0.5 / - 1.1				
2.0H					+ 1.6 / - 2.4					+ 1.5 / - 2.2				

CIE Pub.117, 24323 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 11.1)

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Admin
Test Date:2018-11-24

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
Test Distance:8.320m [K=1.0000]
Remarks:

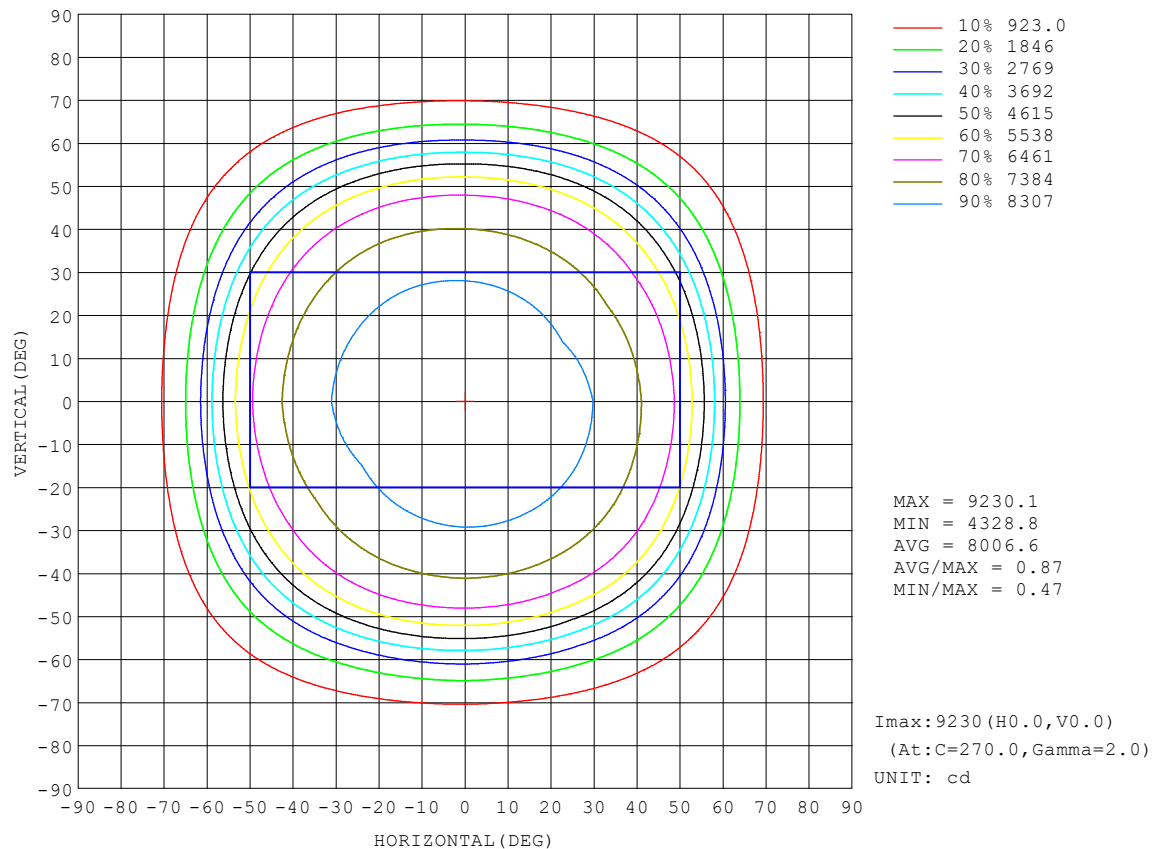
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γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
Test Distance:8.320m [K=1.0000]
Remarks:

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ISOCANDELA DIAGRAM

NAME: AHBL200W-C408-MOMX-P12-00B	TYPE:LED	WEIGHT:4.02KG
SPEC.:4080120	DIM.: 382*382*160	SERIAL No.:001
MFR.:	SUR.:	Shielding Angle:120

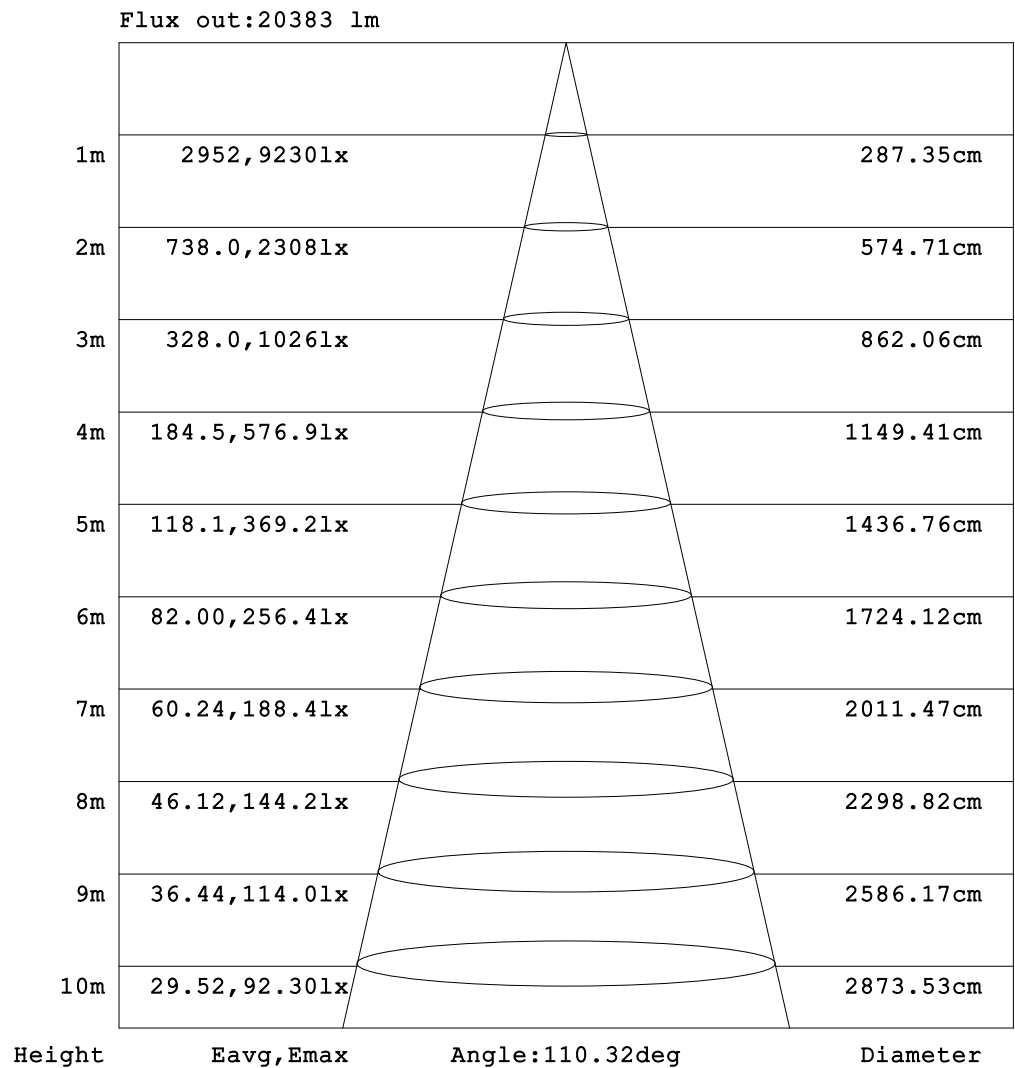


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:2018-11-24

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:8.320m [K=1.0000]
 Remarks:

AAI Figure

NAME: AHBL200W-C408-MOMX-P12-00B	TYPE:LED	WEIGHT:4.02KG
SPEC.:4080120	DIM.: 382*382*160	SERIAL No.:001
MFR.:	SUR.:	Shielding Angle:120



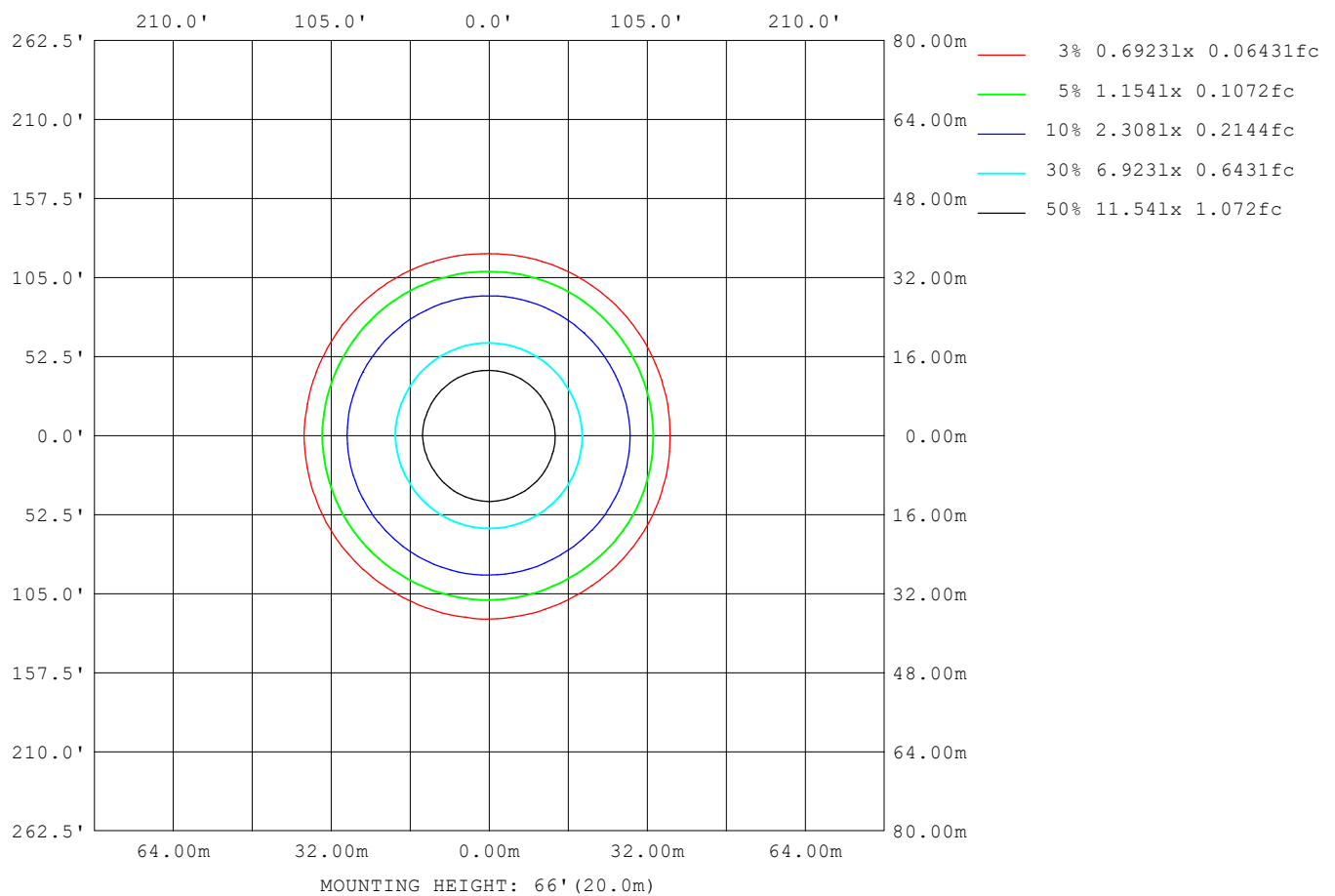
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:2018-11-24

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:8.320m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

NAME: AHBL200W-C408-MOMX-P12-00B	TYPE:LED	WEIGHT:4.02KG
SPEC.:4080120	DIM.: 382*382*160	SERIAL No.:001
MFR.:	SUR.:	Shielding Angle:120



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:2018-11-24

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:8.320m [K=1.0000]
 Remarks:

LED Avg.L Report

NAME: AHBL200W-C408-MOMX-P12-00B	TYPE:LED	WEIGHT:4.02KG
SPEC.:4080120	DIM.: 382*382*160	SERIAL No.:001
MFR.:	SUR.:	Shielding Angle:120

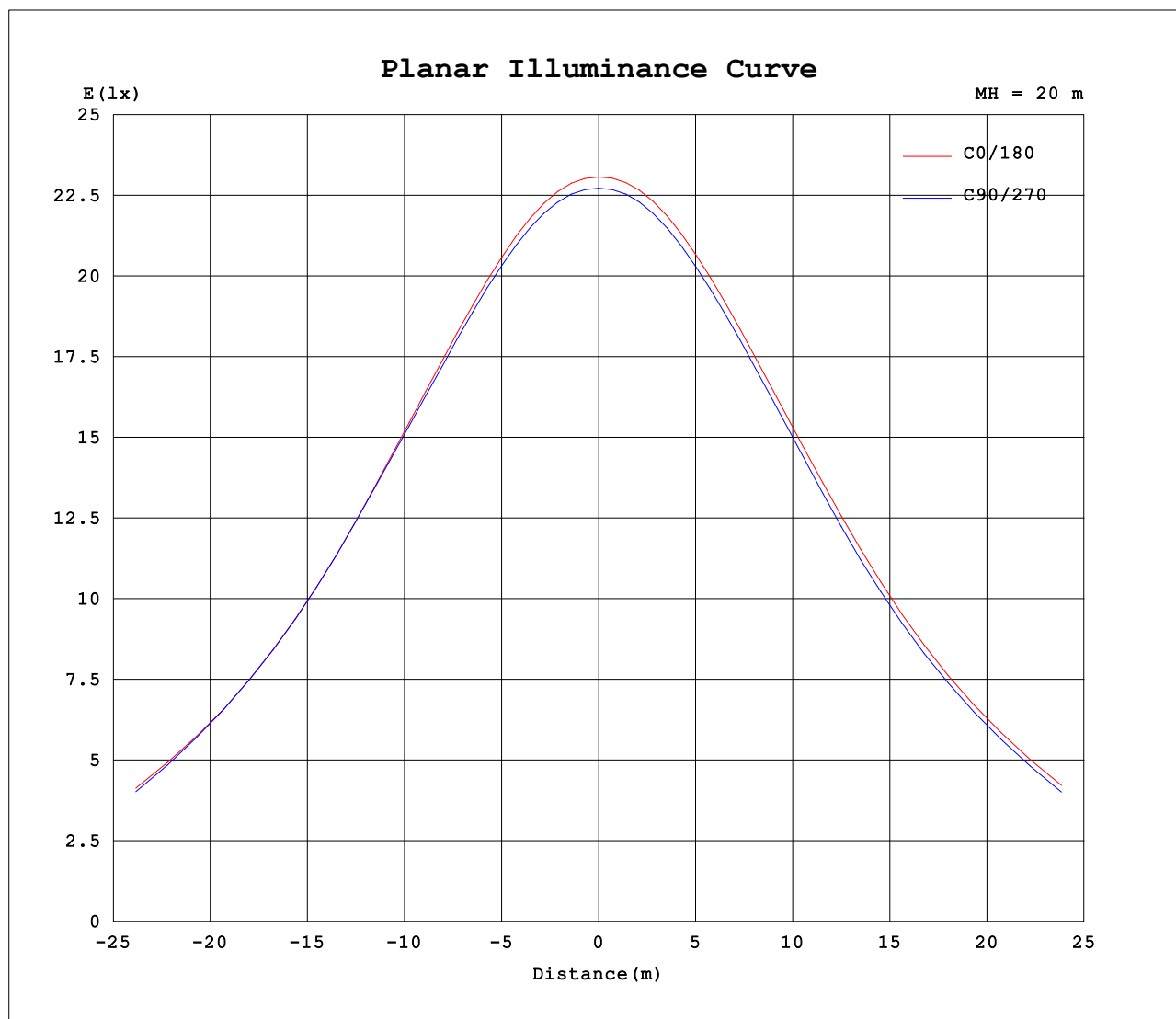
AvgL	cd/m2
L_0~180 (65) av	40314
L_0~180 (75) av	16271
L_0~180 (85) av	5424
L_90~270 (65) av	42010
L_90~270 (75) av	16885
L_90~270 (85) av	5250
L_45 (65) av	41201
L_45 (75) av	16507
L_45 (85) av	5249

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Admin
Test Date:2018-11-24

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
Test Distance:8.320m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Admin
Test Date: 2018-11-24

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity: 65.0%
Test Distance: 8.320m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: AHBL200W-C408-MOMX-P12-00B	TYPE:LED	WEIGHT:4.02KG
SPEC.:4080120	DIM.: 382*382*160	SERIAL No.:001
MFR.:	SUR.:	Shielding Angle:120

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	9118	9118	9118	9118	9118	9118	9118	9118	9118	9118	9118	9118						
5	9107	9109	9109	9112	9112	9112	9114	9113	9113	9111	9111	9109						
10	9016	9023	9024	9034	9034	9038	9045	9038	9038	9028	9023	9017						
15	8907	8918	8919	8931	8934	8940	8949	8939	8938	8924	8919	8910						
20	8689	8709	8713	8729	8731	8738	8746	8733	8735	8715	8707	8693						
25	8514	8545	8556	8573	8568	8570	8578	8563	8564	8544	8530	8512						
30	8189	8233	8262	8294	8296	8287	8273	8243	8238	8200	8186	8177						
35	7892	7934	7968	8013	8022	8012	8010	7969	7952	7905	7889	7886						
40	7392	7443	7470	7516	7522	7528	7529	7488	7468	7413	7394	7385						
45	6993	7057	7062	7097	7122	7136	7147	7097	7080	7030	7010	6990						
50	6153	6153	6042	6087	6172	6243	6284	6213	6159	6076	6090	6101						
55	5132	5095	4927	5006	5130	5256	5314	5205	5114	5012	5060	5077						
60	2904	3011	2944	3094	3103	3233	3227	3139	3106	2978	3040	2968						
65	1801	1867	1935	2049	2026	2088	2033	1989	1990	1931	1901	1883						
70	825	850	924	977	983	992	977	925	936	902	875	854						
75	451	458	516	546	555	554	543	504	527	484	473	454						
80	151	155	167	184	189	184	184	169	171	155	150	145						
85	56.1	59.9	62.5	69.9	71.8	72.9	72.4	67.1	63.5	56.0	52.8	51.9						
90	3.44	3.35	3.50	4.17	4.65	5.15	4.87	4.01	3.83	3.74	3.77	3.84						
95	5.13	4.97	4.96	4.83	4.79	4.69	5.18	5.19	5.31	5.50	5.61	5.70						
100	8.84	8.67	8.62	8.36	8.40	8.33	9.07	9.11	9.16	9.40	9.57	9.72						
105	12.2	12.0	11.9	11.7	11.7	11.6	12.5	12.7	12.8	12.9	13.2	13.3						
110	18.0	17.6	17.4	17.3	17.2	17.2	18.3	18.2	18.3	18.6	18.8	19.0						
115	22.0	21.7	21.5	21.3	21.2	21.2	22.4	22.5	22.5	22.8	23.1	23.4						
120	28.2	28.1	27.8	27.6	27.5	27.6	28.9	29.0	29.1	29.2	29.7	29.9						
125	32.3	32.0	31.8	31.7	31.3	31.4	32.9	32.9	33.2	33.3	33.5	33.8						
130	37.5	37.4	37.1	37.1	36.8	36.9	38.1	38.3	38.5	38.7	38.8	38.9						
135	40.6	40.7	40.3	40.1	39.9	40.0	41.1	41.3	41.5	41.6	42.1	42.1						
140	45.2	45.2	44.9	44.9	44.5	44.5	45.4	45.4	45.7	45.9	46.1	46.2						
145	48.4	48.3	48.1	48.1	47.6	47.7	48.4	48.4	48.6	48.7	48.8	49.0						
150	53.0	52.9	52.6	52.4	52.1	52.4	52.7	52.7	52.9	52.9	53.3	52.9						
155	55.6	55.7	55.2	55.1	54.7	55.2	55.2	55.2	55.7	55.4	55.9	55.7						
160	59.0	59.0	58.7	58.8	58.5	58.6	58.7	58.4	58.9	59.0	59.0	58.9						
165	60.8	60.8	60.7	60.9	60.7	60.7	60.5	60.2	60.8	60.6	60.8	60.6						
170	63.0	63.4	62.9	62.9	62.9	63.1	63.1	62.9	63.3	62.9	63.5	63.3						
175	64.2	64.5	63.9	64.3	64.3	64.3	64.5	63.9	64.3	64.3	64.5	64.3						
180	65.2	65.4	65.3	65.6	65.3	65.8	65.6	65.3	66.0	65.5	65.7	65.5						

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Admin
Test Date:2018-11-24

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
Test Distance:8.320m [K=1.0000]
Remarks: