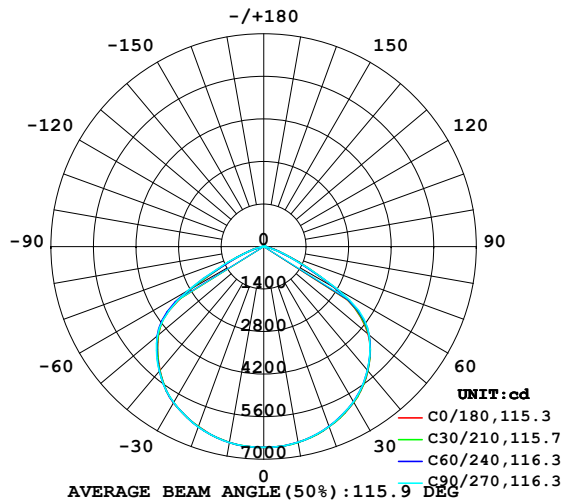


LUMINAIRE PHOTOMETRIC TEST REPORT

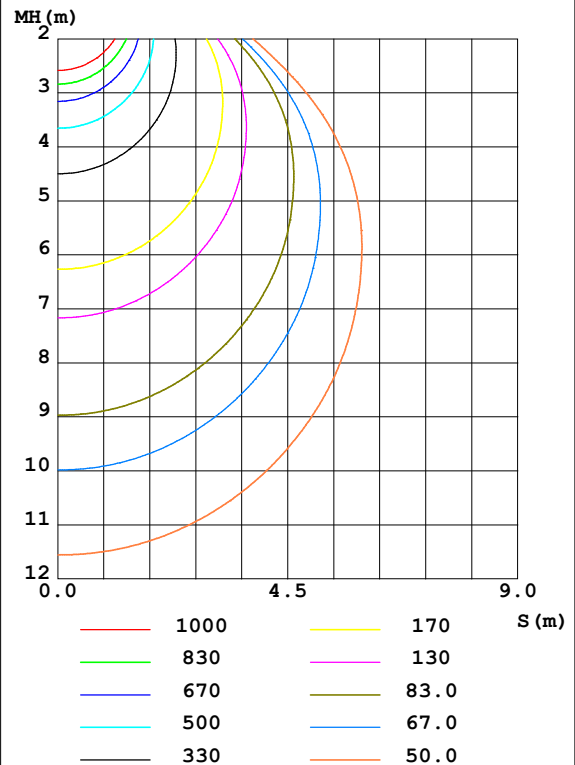
NAME: AHBL150W-C408-MOMX-P12-00B	TYPE:LED	WEIGHT:3.9KG
SPEC.:4080120	DIM.: 300*300*190	SERIAL No.:001
MFR.:	SUR.:	Shielding Angle:120

DATA OF LAMP		PHOTOMETRIC DATA Eff: 120.90 lm/W			
MODEL	AHBL150W-C408-MOMX-P12-00B	Imax(cd)	6607	S/MH(C0/180)	1.34
NOMINAL POWER(W)	150W	LOR(%)	100.0	S/MH(C90/270)	1.34
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	18099	η UP,DN(C0-180)	0.4,49.4
NOMINAL FLUX(lm)	18098.9	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.4,49.8
LAMPS INSIDE	1	η up(%)	0.8	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120.0	η down(%)	99.2	CIBSE SHR MAX	1.50

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:

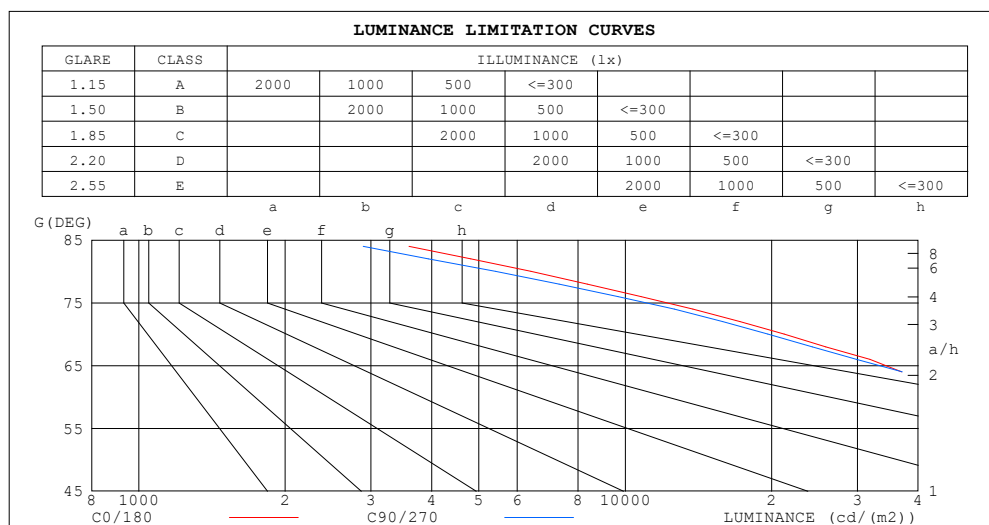
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	6541	6540	6540	6539	6544	6547	6548	6548	0- 10	628.0	628.0	3.47,3.47
20	6305	6300	6296	6293	6305	6309	6313	6318	10- 20	1821	2449	13.5,13.5
30	5921	5909	5904	5913	5937	5933	5929	5937	20- 30	2829	5278	29.2,29.2
40	5336	5324	5313	5301	5320	5338	5355	5368	30- 40	3540	8818	48.7,48.7
50	4483	4521	4533	4519	4530	4557	4575	4570	40- 50	3826	12644	69.9,69.9
60	2628	2691	2791	2721	2711	2793	2841	2708	50- 60	3401	16045	88.7,88.7
70	718.0	698.4	673.5	692.6	719.4	707.5	715.9	729.0	60- 70	1517	17563	97,97
80	110.0	104.4	94.22	99.46	105.4	106.2	99.55	112.6	70- 80	360.8	17923	99,99
90	2.815	2.725	2.635	2.585	2.844	2.862	2.903	3.079	80- 90	37.49	17961	99.2,99.2
100	6.848	6.935	6.977	6.926	7.362	7.379	7.431	7.397	90-100	5.121	17966	99.3,99.3
110	13.60	13.75	13.67	13.59	14.25	14.29	14.42	14.36	100-110	11.08	17977	99.3,99.3
120	20.58	20.86	20.94	20.85	21.74	21.71	21.74	21.79	110-120	17.50	17995	99.4,99.4
130	27.38	27.49	27.57	27.46	28.32	28.22	28.27	28.24	120-130	22.06	18017	99.5,99.5
140	33.12	33.26	33.33	33.30	33.73	33.84	33.72	33.68	130-140	23.73	18040	99.7,99.7
150	38.72	38.88	38.74	38.78	38.79	38.64	38.73	38.72	140-150	22.70	18063	99.8,99.8
160	42.62	42.82	43.03	42.81	42.78	42.74	42.56	42.63	150-160	18.84	18082	99.9,99.9
170	45.84	45.83	46.01	45.86	46.02	46.02	45.80	45.83	160-170	12.55	18094	100,100
180	47.69	47.70	47.78	47.62	47.86	47.80	47.76	47.83	170-180	4.454	18099	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: AHBL150W-C408-MOMX-P12-00B	TYPE:LED	WEIGHT:3.9KG
SPEC.:4080120	DIM.: 300*300*190	SERIAL No.:001
MFR.:	SUR.:	Shielding Angle:120



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4307	3469
80	6404	5411
75	14674	13440
70	21214	19637
65	38395	38496
60	53124	55674
55	69605	71243
50	70485	70324
45	71922	70753

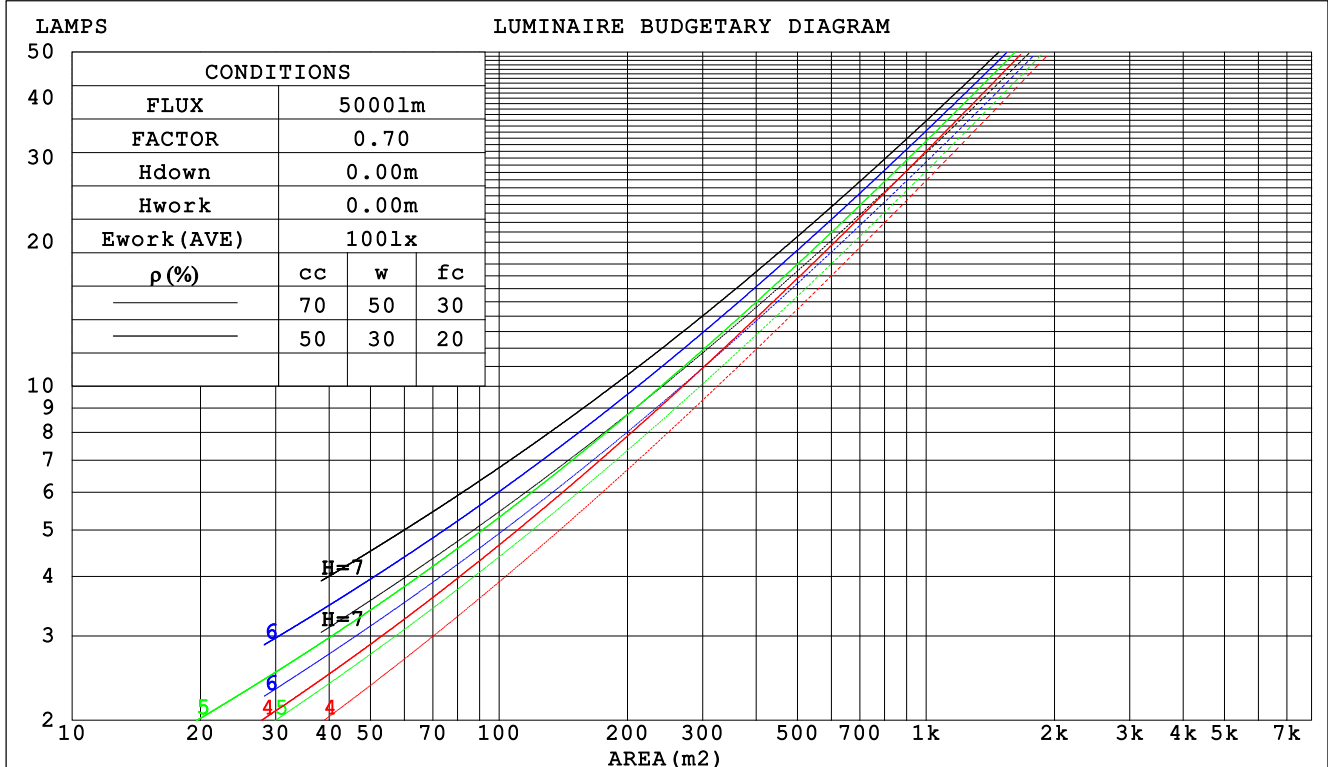
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Admin
Test Date:2018-11-24

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: AHBL150W-C408-MOMX-P12-00B	TYPE:LED	WEIGHT:3.9KG
SPEC.:4080120	DIM.: 300*300*190	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	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
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	.99	1.04	1.01	.98	.90	.97	.94	.96	.93	.91	.92	.90	.89	.87
2.0	.94	.88	.83	.92	.86	.82	.88	.84	.80	.85	.81	.78	.82	.79	.76	.74
3.0	.83	.76	.70	.82	.75	.69	.79	.73	.68	.76	.71	.67	.73	.69	.65	.63
4.0	.74	.66	.59	.73	.65	.59	.70	.63	.58	.68	.62	.57	.65	.61	.57	.54
5.0	.66	.58	.51	.65	.57	.51	.63	.56	.50	.61	.55	.50	.59	.54	.49	.47
6.0	.60	.51	.45	.59	.50	.45	.57	.50	.44	.55	.49	.44	.53	.48	.43	.41
7.0	.54	.45	.40	.53	.45	.39	.51	.44	.39	.50	.44	.39	.49	.43	.38	.36
8.0	.49	.41	.35	.48	.41	.35	.47	.40	.35	.46	.39	.35	.45	.39	.34	.32
9.0	.45	.37	.32	.44	.37	.31	.43	.36	.31	.42	.36	.31	.41	.35	.31	.29
10.0	.41	.34	.29	.41	.33	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26



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: AHBL150W-C408-MOMX-P12-00B	TYPE:LED	WEIGHT:3.9KG
SPEC.:4080120	DIM.: 300*300*190	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	.261	.149	.047	.254	.145	.046	.241	.138	.044	.228	.132	.042	.217	.126	.041		
2.0	.257	.141	.043	.250	.138	.043	.239	.133	.041	.228	.128	.040	.218	.123	.039		
3.0	.245	.130	.039	.239	.128	.039	.229	.124	.038	.219	.120	.037	.210	.116	.036		
4.0	.231	.120	.035	.226	.118	.035	.216	.115	.034	.208	.112	.034	.200	.109	.033		
5.0	.217	.110	.032	.212	.109	.032	.204	.106	.031	.196	.104	.031	.189	.101	.030		
6.0	.203	.102	.029	.199	.101	.029	.192	.098	.029	.185	.096	.028	.179	.094	.028		
7.0	.191	.094	.027	.187	.093	.027	.181	.091	.026	.174	.089	.026	.169	.088	.026		
8.0	.179	.088	.025	.176	.087	.025	.170	.085	.024	.165	.083	.024	.159	.082	.024		
9.0	.169	.082	.023	.166	.081	.023	.161	.079	.023	.156	.078	.022	.151	.077	.022		
10.0	.160	.076	.021	.157	.076	.021	.152	.075	.021	.148	.073	.021	.143	.072	.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	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.183	.162	.144	.156	.139	.124	.107	.096	.086	.062	.055	.050	.020	.018	.016	
2.0	.173	.138	.108	.149	.119	.093	.102	.082	.065	.059	.048	.038	.019	.015	.012	
3.0	.166	.120	.084	.142	.104	.073	.097	.072	.051	.056	.042	.030	.018	.014	.010	
4.0	.158	.107	.067	.136	.092	.058	.093	.064	.041	.054	.038	.024	.017	.012	.008	
5.0	.151	.096	.055	.130	.083	.048	.090	.058	.034	.052	.034	.020	.017	.011	.007	
6.0	.145	.088	.047	.124	.076	.041	.086	.053	.029	.050	.031	.017	.016	.010	.006	
7.0	.138	.081	.040	.119	.070	.035	.082	.049	.025	.048	.029	.015	.015	.009	.005	
8.0	.132	.075	.036	.114	.065	.031	.079	.046	.022	.046	.027	.013	.015	.009	.004	
9.0	.127	.070	.032	.109	.061	.028	.076	.043	.020	.044	.025	.012	.014	.008	.004	
10.0	.121	.066	.029	.105	.057	.025	.073	.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: AHBL150W-C408-MOMX-P12-00B					TYPE:LED					WEIGHT:3.9KG				
SPEC.:4080120					DIM.: 300*300*190					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					17.3	18.7	17.6	18.9	19.1	17.3	18.8	17.6	19.0	19.2
3H					17.5	18.8	17.8	19.1	19.3	17.5	18.8	17.8	19.1	19.3
4H					17.5	18.7	17.8	19.0	19.3	17.5	18.7	17.8	19.0	19.3
6H					17.4	18.6	17.8	18.9	19.2	17.4	18.6	17.8	18.9	19.1
8H					17.4	18.5	17.7	18.8	19.1	17.4	18.5	17.7	18.8	19.1
12H					17.3	18.4	17.7	18.7	19.0	17.3	18.4	17.7	18.7	19.0
4H 2H					17.5	18.7	17.8	19.0	19.3	17.5	18.8	17.9	19.0	19.3
3H					17.8	18.9	18.2	19.2	19.5	17.8	18.9	18.1	19.2	19.5
4H					17.8	18.8	18.2	19.1	19.4	17.8	18.7	18.2	19.1	19.4
6H					17.8	18.6	18.2	19.0	19.3	17.7	18.6	18.1	18.9	19.3
8H					17.7	18.5	18.1	18.9	19.3	17.7	18.5	18.1	18.8	19.2
12H					17.7	18.4	18.1	18.8	19.2	17.6	18.3	18.1	18.7	19.2
8H 4H					17.7	18.5	18.1	18.9	19.3	17.7	18.5	18.1	18.9	19.3
6H					17.7	18.3	18.1	18.7	19.2	17.6	18.3	18.1	18.7	19.1
8H					17.7	18.2	18.1	18.7	19.1	17.6	18.2	18.1	18.6	19.1
12H					17.6	18.1	18.1	18.6	19.0	17.6	18.1	18.1	18.5	19.0
12H 4H					17.7	18.4	18.1	18.8	19.2	17.7	18.4	18.1	18.8	19.2
6H					17.6	18.2	18.1	18.6	19.1	17.6	18.2	18.1	18.6	19.1
8H					17.6	18.1	18.1	18.6	19.0	17.6	18.1	18.1	18.5	19.0
Variations with the observer position at spacings:														
S = 1.0H					+ 0.3 / - 0.4					+ 0.3 / - 0.4				
1.5H					+ 0.8 / - 1.2					+ 0.9 / - 1.4				
2.0H					+ 1.1 / - 1.9					+ 1.1 / - 2.4				

CIE Pub.117, 18099 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 10.1)

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:

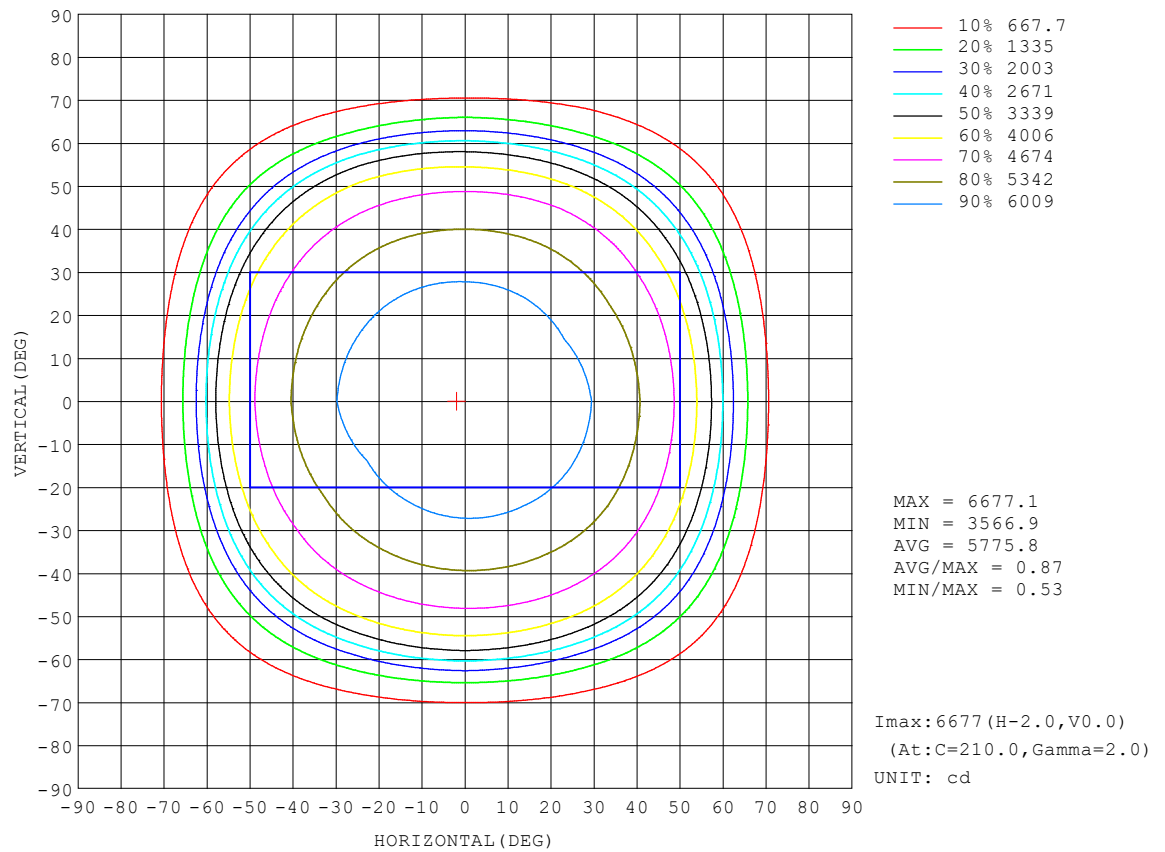
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γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
Test Distance:8.320m [K=1.0000]
Remarks:

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ISOCANDELA DIAGRAM

NAME: AHBL150W-C408-MOMX-P12-00B	TYPE:LED	WEIGHT:3.9KG
SPEC.:4080120	DIM.: 300*300*190	SERIAL No.:001
MFR.:	SUR.:	Shielding Angle:120

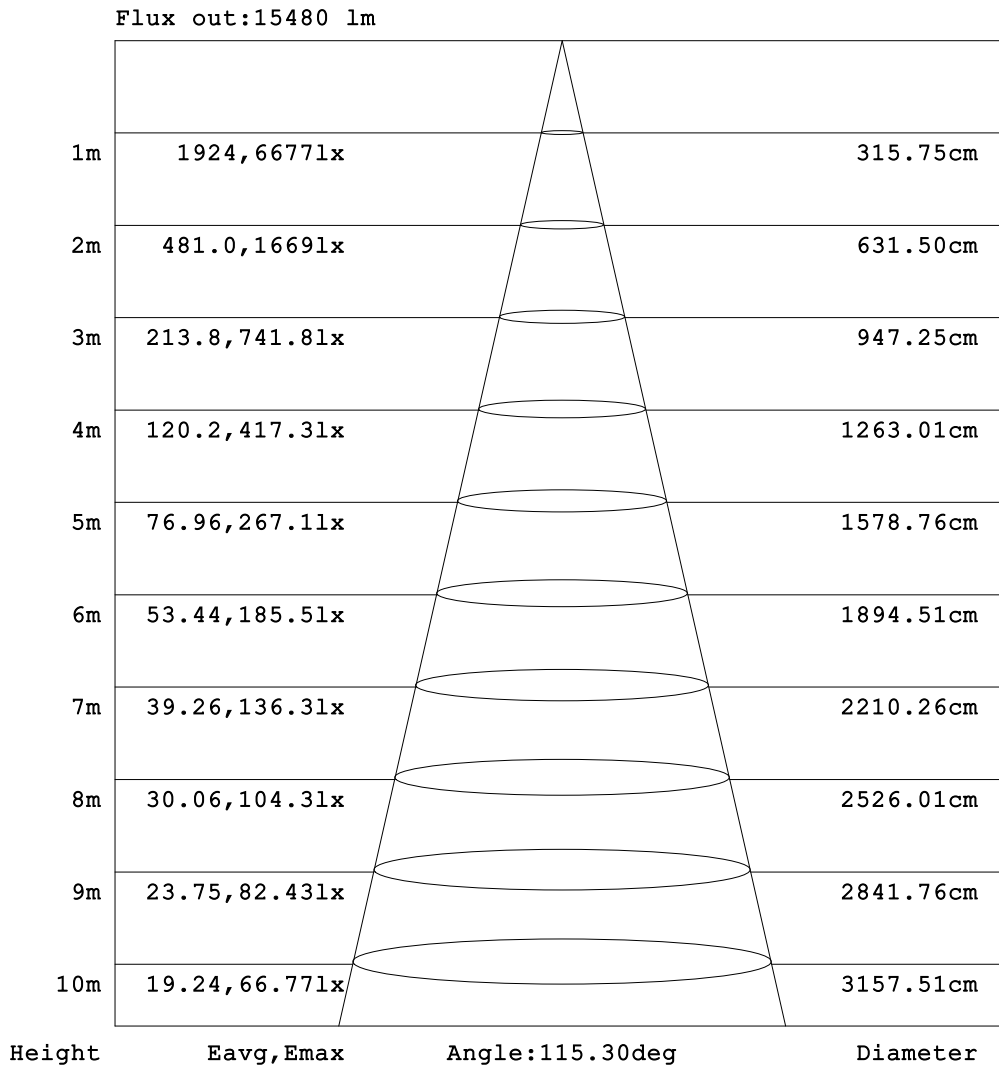


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Admin
Test Date:2018-11-24

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: AHBL150W-C408-MOMX-P12-00B	TYPE:LED	WEIGHT:3.9KG
SPEC.:4080120	DIM.: 300*300*190	SERIAL No.:001
MFR.:	SUR.:	Shielding Angle:120



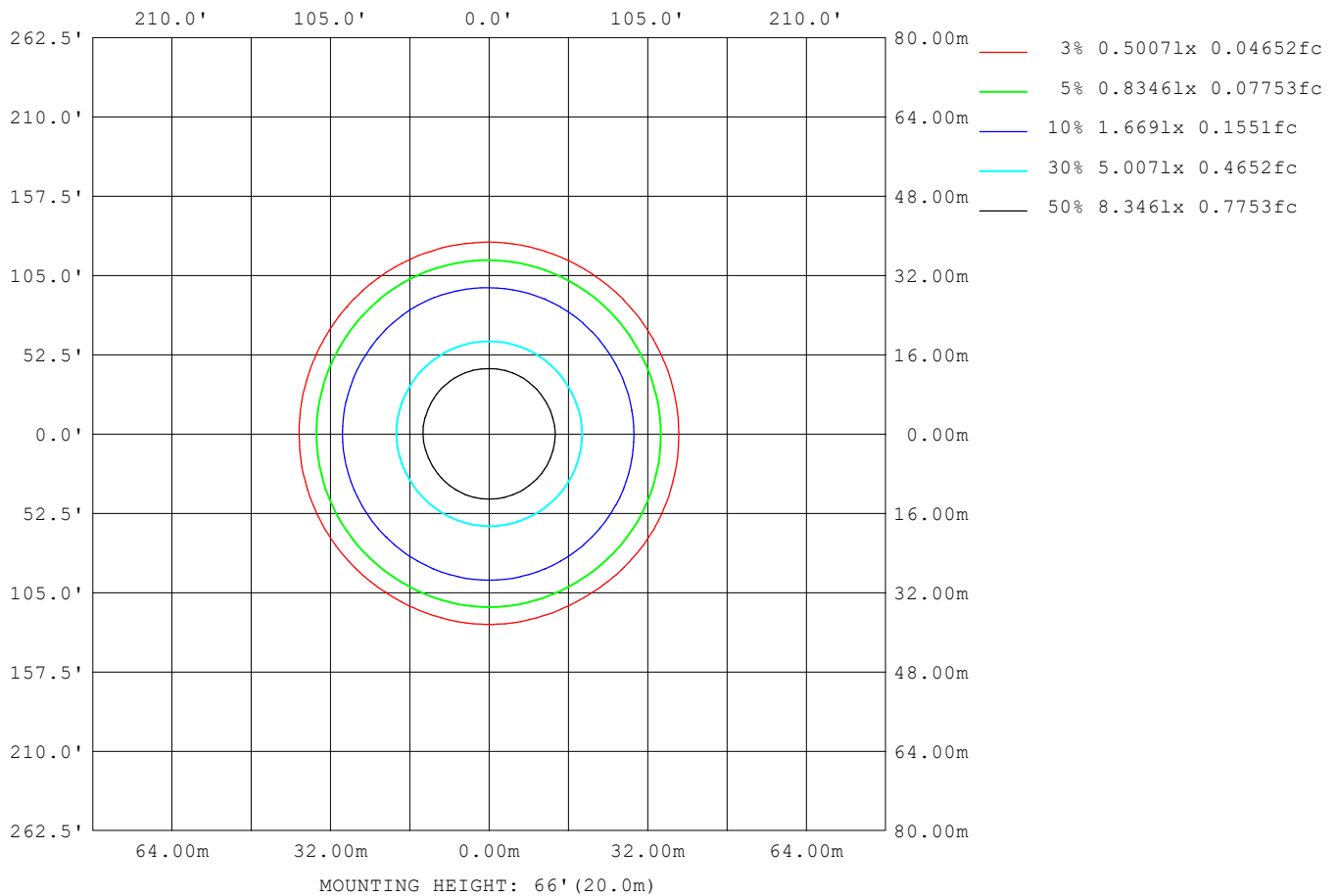
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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: AHBL150W-C408-MOMX-P12-00B	TYPE:LED	WEIGHT:3.9KG
SPEC.:4080120	DIM.: 300*300*190	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: AHBL150W-C408-MOMX-P12-00B	TYPE:LED	WEIGHT:3.9KG
SPEC.:4080120	DIM.: 300*300*190	SERIAL No.:001
MFR.:	SUR.:	Shielding Angle:120

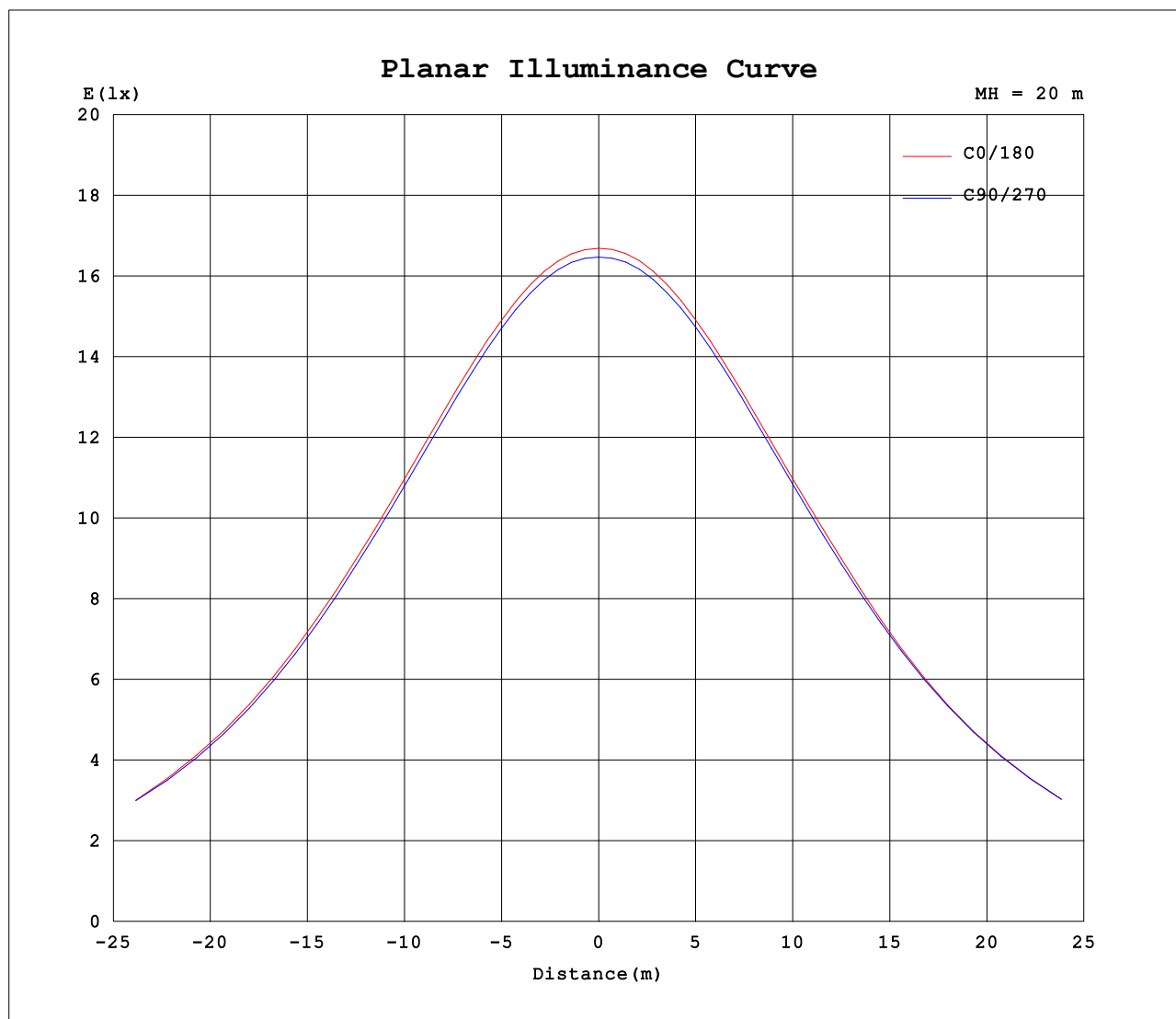
AvgL	cd/m2
L_0~180 (65) av	33822
L_0~180 (75) av	12260
L_0~180 (85) av	2880
L_90~270 (65) av	34621
L_90~270 (75) av	11463
L_90~270 (85) av	2567
L_45 (65) av	33831
L_45 (75) av	12029
L_45 (85) av	2801

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: AHBL150W-C408-MOMX-P12-00B	TYPE:LED	WEIGHT:3.9KG
SPEC.:4080120	DIM.: 300*300*190	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	6607	6607	6607	6607	6607	6607	6607	6607	6607	6607	6607	6607						
5	6600	6602	6601	6602	6601	6602	6603	6604	6605	6604	6603	6602						
10	6541	6542	6538	6540	6537	6540	6544	6544	6550	6548	6550	6546						
15	6465	6466	6459	6462	6458	6462	6468	6468	6475	6475	6477	6473						
20	6305	6306	6294	6296	6290	6296	6305	6305	6314	6313	6321	6315						
25	6170	6168	6153	6154	6147	6155	6169	6166	6176	6176	6185	6179						
30	5921	5919	5899	5904	5906	5920	5937	5932	5935	5929	5940	5934						
35	5721	5711	5689	5695	5691	5708	5729	5729	5737	5727	5742	5734						
40	5336	5335	5314	5313	5296	5306	5320	5325	5351	5355	5373	5363						
45	5032	5038	5020	5017	5000	5008	5018	5029	5056	5065	5089	5070						
50	4483	4513	4530	4533	4512	4527	4530	4537	4577	4575	4598	4543						
55	3950	3994	4058	4097	4074	4090	4099	4101	4149	4096	4084	3998						
60	2628	2692	2691	2791	2710	2733	2711	2743	2843	2841	2751	2664						
65	1606	1646	1552	1631	1576	1632	1625	1639	1662	1714	1657	1640						
70	718	716	681	673	682	703	719	702	713	716	741	717						
75	376	375	356	349	354	365	377	364	370	369	400	370						
80	110	108	101	94.2	94.5	104	105	104	108	99.5	116	109						
85	37.1	35.9	33.3	30.3	29.5	33.7	33.8	33.4	35.8	32.7	37.6	36.3						
90	2.81	2.80	2.65	2.64	2.61	2.56	2.84	2.87	2.86	2.90	3.11	3.05						
95	3.93	3.92	3.99	4.00	3.99	3.89	4.30	4.33	4.26	4.29	4.24	4.31						
100	6.85	6.88	6.99	6.98	7.01	6.85	7.36	7.41	7.35	7.43	7.35	7.44						
105	9.48	9.37	9.58	9.55	9.56	9.45	10.0	10.1	9.96	10.01	10.03	10.07						
110	13.6	13.7	13.8	13.7	13.6	13.5	14.3	14.3	14.3	14.4	14.3	14.4						
115	16.4	16.5	16.8	16.6	16.6	16.4	17.3	17.3	17.4	17.5	17.3	17.5						
120	20.6	20.7	21.0	20.9	20.9	20.8	21.7	21.7	21.7	21.7	21.7	21.9						
125	23.4	23.5	23.8	23.6	23.6	23.5	24.5	24.4	24.4	24.4	24.5	24.5						
130	27.4	27.5	27.5	27.6	27.6	27.3	28.3	28.2	28.3	28.3	28.2	28.3						
135	29.7	29.8	29.9	30.0	29.9	29.7	30.6	30.6	30.5	30.5	30.5	30.6						
140	33.1	33.2	33.4	33.3	33.4	33.2	33.7	33.9	33.8	33.7	33.8	33.6						
145	35.5	35.7	35.8	35.7	35.7	35.6	36.0	35.8	36.0	35.9	35.9	35.8						
150	38.7	38.9	38.9	38.7	38.8	38.7	38.8	38.5	38.7	38.7	38.7	38.7						
155	40.3	40.6	40.5	40.5	40.6	40.5	40.5	40.4	40.4	40.5	40.5	40.4						
160	42.6	42.9	42.8	43.0	42.8	42.8	42.8	42.6	42.8	42.6	42.7	42.5						
165	44.2	44.4	44.3	44.5	44.3	44.3	44.1	44.0	44.1	43.8	44.0	44.0						
170	45.8	45.9	45.8	46.0	45.9	45.8	46.0	45.9	46.2	45.8	45.9	45.8						
175	46.7	47.0	46.7	47.0	46.8	46.8	47.0	46.8	47.0	46.7	47.1	46.7						
180	47.7	47.8	47.6	47.8	47.5	47.8	47.9	47.8	47.8	47.8	47.9	47.8						

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: