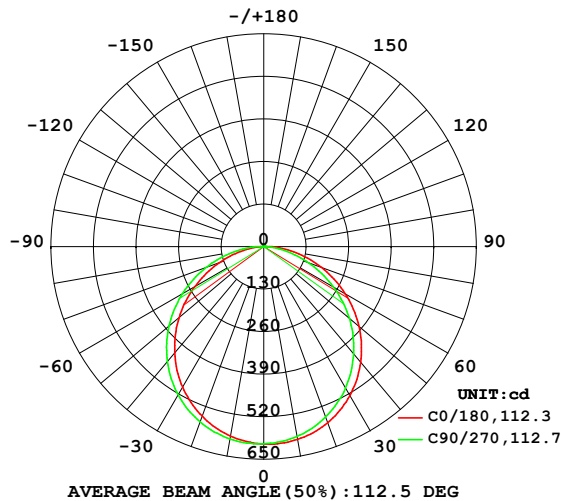


LUMINAIRE PHOTOMETRIC TEST REPORT

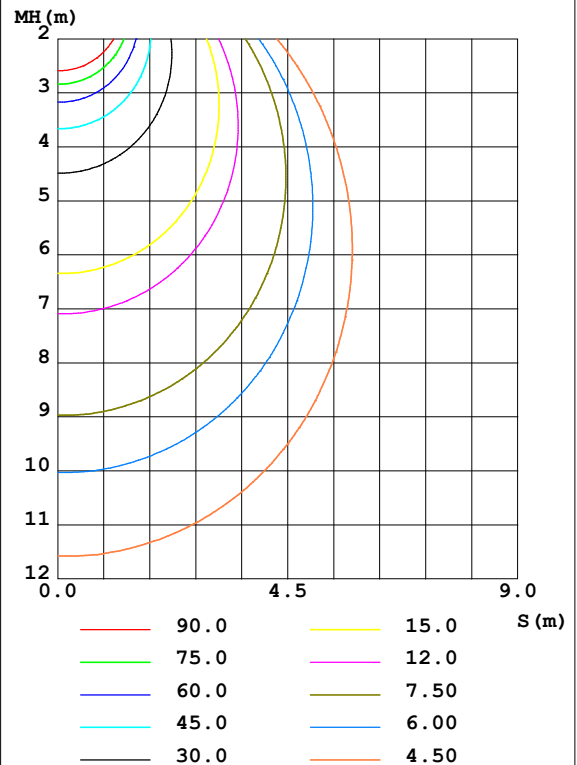
Test:U:120.31V I:0.1605A P:19.042W PF:0.9862 Freq:59.98Hz Lamp Flux:1649.7 lm		
NAME: ASD-JBS-8D20WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	Shielding Angle:0

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 91.89 lm/W
MODEL	ASD-JBS-8D20WH	I _{max} (cd)	604.7	S/MH(C0/180)	1.23	
NOMINAL POWER(W)	20	LOR(%)	106.7	S/MH(C90/270)	1.29	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1649.7	η UP,DN(C0-180)	0.4,51.5	
NOMINAL FLUX(lm)	1649.7	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.4,54.4	
LAMPS INSIDE	1	η up(%)	0.8	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	120	η down(%)	105.9	CIBSE SHR MAX	1.35	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-07-05

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:8.458m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

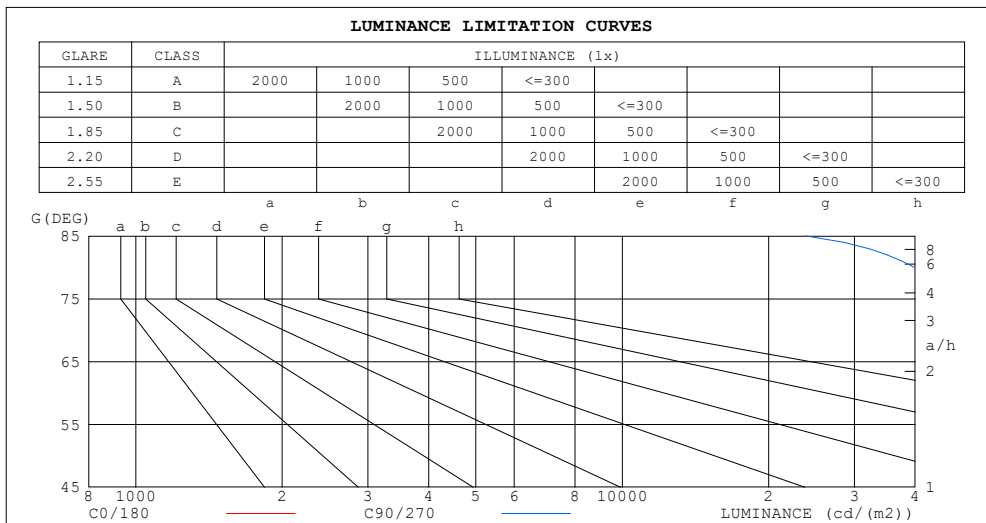
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	598.3	592.8	588.7	587.2	587.6	592.4	596.7	598.3	0- 10	57.09	57.09	3.26,3.48
20	572.6	561.7	554.1	550.1	551.2	561.7	569.8	573.1	10- 20	163.7	220.8	12.6,13.5
30	526.2	511.0	500.1	494.2	496.0	511.5	523.0	527.5	20- 30	248.4	469.2	26.8,28.6
40	461.2	442.2	428.4	421.8	424.1	443.7	458.5	463.3	30- 40	299.6	768.8	43.9,46.9
50	380.5	357.8	342.0	335.0	338.0	361.8	378.4	383.7	40- 50	310.6	1079	61.7,65.8
60	287.5	262.7	245.9	238.7	242.4	268.2	285.9	291.3	50- 60	280.0	1359	77.7,82.9
70	188.3	163.0	146.4	140.4	144.6	170.2	187.4	192.2	60- 70	213.5	1573	89.9,95.9
80	92.33	69.39	55.39	51.37	55.11	77.18	91.60	95.91	70- 80	125.5	1698	97.1,104
90	11.06	0.2970	0.2930	0.3026	0.5229	1.474	11.29	14.26	80- 90	37.64	1736	99.2,106
100	0.5367	0.6688	0.7518	0.7810	0.9874	0.8263	0.7480	0.7235	90-100	1.055	1737	99.3,106
110	1.103	1.289	1.401	1.440	1.681	1.486	1.378	1.339	100-110	1.116	1738	99.3,106
120	1.797	1.992	2.114	2.149	2.404	2.214	2.101	2.052	110-120	1.729	1740	99.4,106
130	2.452	2.637	2.750	2.779	3.034	2.859	2.766	2.722	120-130	2.180	1742	99.6,106
140	2.975	3.126	3.214	3.263	3.484	3.347	3.269	3.230	130-140	2.326	1744	99.7,106
150	3.317	3.424	3.483	3.532	3.698	3.610	3.552	3.537	140-150	2.131	1747	99.8,106
160	3.576	3.649	3.708	3.722	3.752	3.703	3.679	3.659	150-160	1.664	1748	99.9,107
170	3.932	4.005	4.006	4.035	4.173	4.099	4.075	4.041	160-170	1.084	1749	100,107
180	4.480	4.485	4.475	4.509	4.480	4.485	4.475	4.499	170-180	0.4028	1750	100,107
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-07-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:8.458m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.31V I:0.1605A P:19.042W PF:0.9862 Freq:59.98Hz Lamp Flux:1649.7 lm		
NAME: ASD-JBS-8D20WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	Shielding Angle:0



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	70498	23879
80	66464	39870
75	67180	47887
70	68827	53489
65	70432	58002
60	71868	61482
55	73007	64264
50	73986	66505
45	74699	68384

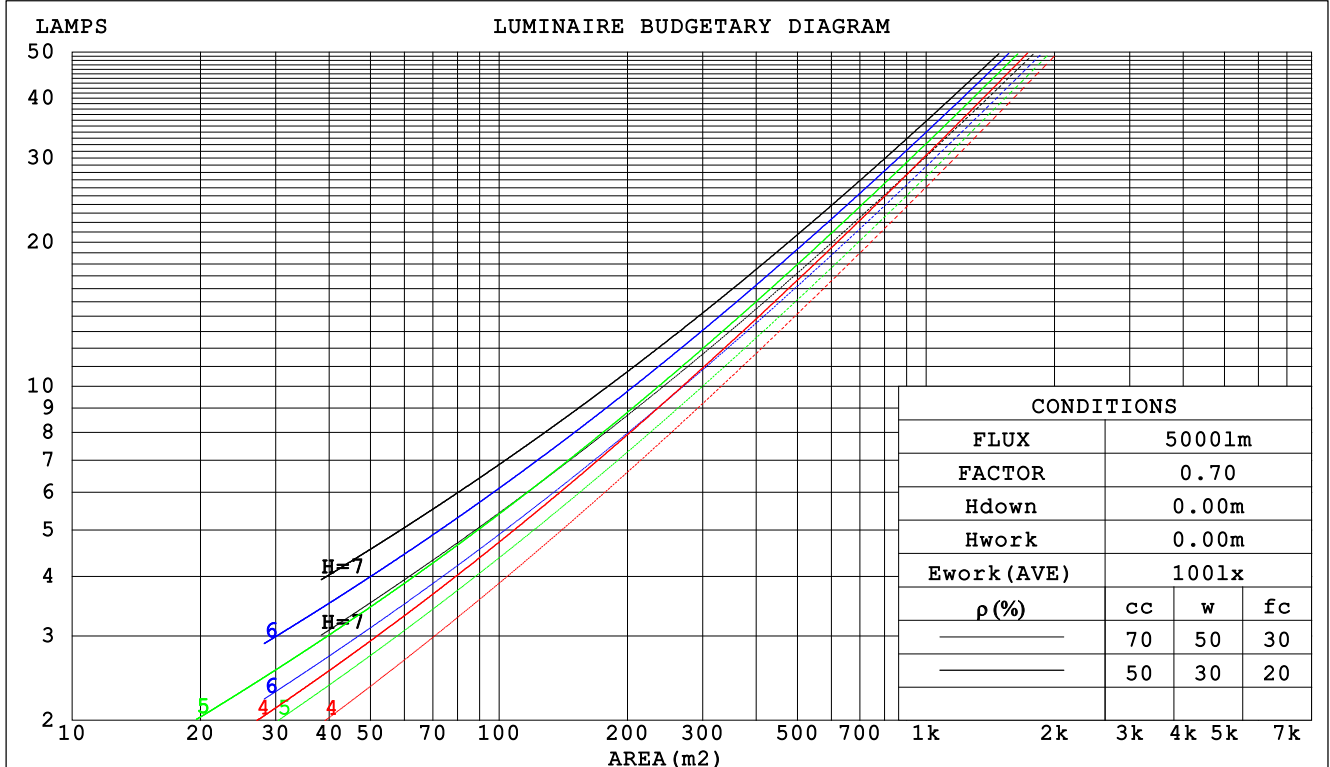
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-07-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:8.458m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.31V I:0.1605A P:19.042W PF:0.9862 Freq:59.98Hz Lamp Flux:1649.7 lm		
NAME: ASD-JBS-8D20WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	Shielding Angle:0

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	1.27	1.27	1.27	1.24	1.24	1.24	1.18	1.18	1.18	1.13	1.13	1.13	1.08	1.08	1.08	1.06
1.0	1.10	1.06	1.02	1.08	1.04	.00	1.03	.00	.97	.99	.96	.93	.95	.93	.90	.88
2.0	.96	.89	.82	.94	.87	.81	.90	.84	.79	.86	.82	.77	.83	.79	.76	.73
3.0	.84	.75	.68	.83	.74	.68	.79	.72	.66	.76	.70	.65	.73	.68	.64	.62
4.0	.75	.65	.58	.73	.64	.57	.70	.63	.57	.68	.61	.56	.65	.60	.55	.52
5.0	.67	.57	.50	.65	.56	.49	.63	.55	.49	.61	.54	.48	.59	.53	.48	.45
6.0	.60	.50	.43	.59	.50	.43	.57	.49	.43	.55	.48	.42	.53	.47	.42	.40
7.0	.54	.45	.38	.53	.44	.38	.52	.44	.38	.50	.43	.37	.48	.42	.37	.35
8.0	.50	.40	.34	.49	.40	.34	.47	.39	.34	.46	.39	.33	.45	.38	.33	.31
9.0	.45	.37	.31	.45	.36	.31	.43	.36	.30	.42	.35	.30	.41	.35	.30	.28
10.0	.42	.33	.28	.41	.33	.28	.40	.33	.28	.39	.32	.27	.38	.32	.27	.25



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-07-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:8.458m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.31V I:0.1605A P:19.042W PF:0.9862 Freq:59.98Hz Lamp Flux:1649.7 lm					
NAME: ASD-JBS-8D20WH			TYPE:		WEIGHT:
SPEC.:5000K			DIM.:		SERIAL No.:
MFR.: ASD Lighting corp			SUR.:		Shielding Angle:0

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	.334	.190	.060	.327	.186	.059	.312	.179	.057	.298	.172	.055	.286	.166	.053		
2.0	.313	.172	.053	.306	.169	.052	.293	.163	.051	.282	.158	.049	.271	.153	.048		
3.0	.289	.154	.046	.283	.152	.046	.272	.147	.045	.261	.143	.044	.251	.139	.043		
4.0	.267	.139	.041	.261	.137	.040	.251	.133	.040	.242	.130	.039	.233	.127	.039		
5.0	.246	.126	.036	.242	.124	.036	.233	.121	.036	.224	.118	.035	.216	.116	.035		
6.0	.228	.114	.033	.224	.113	.033	.216	.111	.032	.208	.108	.032	.201	.106	.031		
7.0	.212	.105	.030	.209	.104	.030	.201	.102	.029	.195	.100	.029	.188	.098	.029		
8.0	.198	.097	.027	.195	.096	.027	.188	.094	.027	.182	.092	.027	.177	.091	.026		
9.0	.186	.090	.025	.183	.089	.025	.177	.087	.025	.171	.086	.025	.166	.084	.024		
10.0	.175	.084	.023	.172	.083	.023	.167	.082	.023	.162	.080	.023	.157	.079	.023		

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	.210	.210	.210	.179	.179	.179	.122	.122	.122	.070	.070	.070	.022	.022	.022	
1.0	.199	.173	.149	.170	.148	.129	.116	.102	.089	.067	.059	.052	.021	.019	.017	
2.0	.190	.147	.111	.163	.127	.096	.112	.088	.067	.064	.051	.039	.021	.016	.013	
3.0	.182	.128	.086	.156	.111	.074	.107	.077	.052	.062	.045	.031	.020	.015	.010	
4.0	.174	.114	.069	.149	.099	.060	.103	.069	.042	.059	.040	.025	.019	.013	.008	
5.0	.166	.103	.057	.143	.089	.049	.098	.062	.035	.057	.037	.021	.018	.012	.007	
6.0	.158	.094	.048	.136	.082	.042	.094	.057	.030	.055	.034	.018	.018	.011	.006	
7.0	.151	.087	.042	.130	.075	.037	.090	.053	.026	.052	.031	.015	.017	.010	.005	
8.0	.144	.081	.037	.124	.070	.032	.086	.049	.023	.050	.029	.014	.016	.010	.005	
9.0	.138	.076	.033	.119	.066	.029	.082	.046	.021	.048	.027	.012	.016	.009	.004	
10.0	.132	.071	.031	.114	.062	.027	.079	.043	.019	.046	.026	.011	.015	.008	.004	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2025-07-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
 Humidity:65.0%
 Test Distance:8.458m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.31V I:0.1605A P:19.042W PF:0.9862 Freq:59.98Hz Lamp Flux:1649.7 lm										
NAME: ASD-JBS-8D20WH					TYPE:			WEIGHT:		
SPEC.:5000K					DIM.:			SERIAL No.:		
MFR.: ASD Lighting corp					SUR.:			Shielding Angle:0		
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	26.1	27.6	26.3	27.8	28.0	25.5	27.0	25.8	27.2	27.4
3H	27.7	29.1	28.0	29.4	29.6	26.9	28.3	27.2	28.5	28.8
4H	28.4	29.8	28.8	30.0	30.3	27.4	28.7	27.7	29.0	29.3
6H	29.0	30.3	29.4	30.6	30.9	27.7	29.0	28.1	29.3	29.6
8H	29.2	30.5	29.6	30.8	31.1	27.8	29.0	28.2	29.3	29.6
12H	29.4	30.6	29.8	30.9	31.2	27.8	29.0	28.2	29.3	29.6
4H 2H	26.6	27.9	26.9	28.2	28.5	26.1	27.5	26.5	27.7	28.0
3H	28.4	29.6	28.8	29.9	30.2	27.7	28.9	28.1	29.2	29.5
4H	29.3	30.3	29.7	30.7	31.0	28.4	29.4	28.7	29.8	30.1
6H	30.0	31.0	30.4	31.3	31.7	28.8	29.8	29.2	30.1	30.5
8H	30.3	31.2	30.7	31.6	32.0	28.9	29.8	29.3	30.2	30.6
12H	30.6	31.4	31.0	31.8	32.2	29.0	29.8	29.4	30.2	30.6
8H 4H	29.5	30.4	29.9	30.8	31.2	28.7	29.5	29.1	29.9	30.3
6H	30.4	31.1	30.8	31.5	32.0	29.3	30.0	29.7	30.4	30.9
8H	30.8	31.4	31.2	31.9	32.3	29.5	30.1	29.9	30.5	31.0
12H	31.1	31.7	31.6	32.2	32.6	29.6	30.1	30.0	30.6	31.1
12H 4H	29.5	30.3	29.9	30.7	31.1	28.7	29.5	29.1	29.9	30.3
6H	30.4	31.1	30.9	31.5	32.0	29.3	30.0	29.8	30.4	30.9
8H	30.8	31.4	31.3	31.9	32.4	29.6	30.1	30.1	30.6	31.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 1640 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 1.7$)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2025-07-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
 Humidity:65.0%
 Test Distance:8.458m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.31V I:0.1605A P:19.042W PF:0.9862 Freq:59.98Hz Lamp Flux:1649.7 lm		
NAME: ASD-JBS-8D20WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	Shielding Angle:0

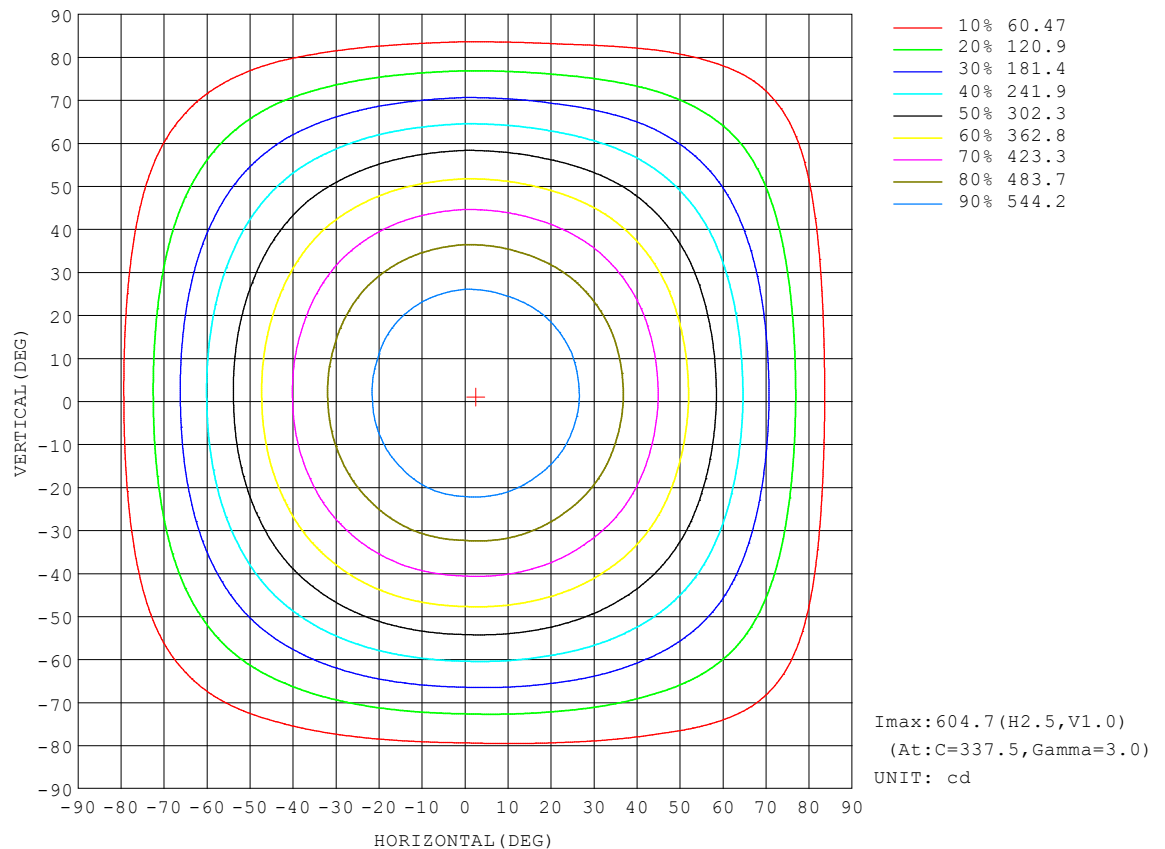
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	61	49	41	60	48	41	59	48	41	34
0.80	72	59	51	70	59	51	69	58	51	43
1.00	81	69	61	79	68	60	77	69	60	52
1.25	88	77	69	87	76	69	84	74	68	60
1.50	93	83	75	92	82	75	88	80	74	65
2.00	101	92	85	99	90	84	95	88	82	73
2.50	105	97	90	103	95	89	99	92	87	78
3.00	109	101	95	106	99	94	102	96	92	82
4.00	113	107	102	110	105	100	106	101	97	87
5.00	116	110	106	113	108	104	108	104	101	91
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:2025-07-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:8.458m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.31V I:0.1605A P:19.042W PF:0.9862 Freq:59.98Hz Lamp Flux:1649.7 lm		
NAME: ASD-JBS-8D20WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	Shielding Angle:0



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-07-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:8.458m [K=1.0000]
Remarks:

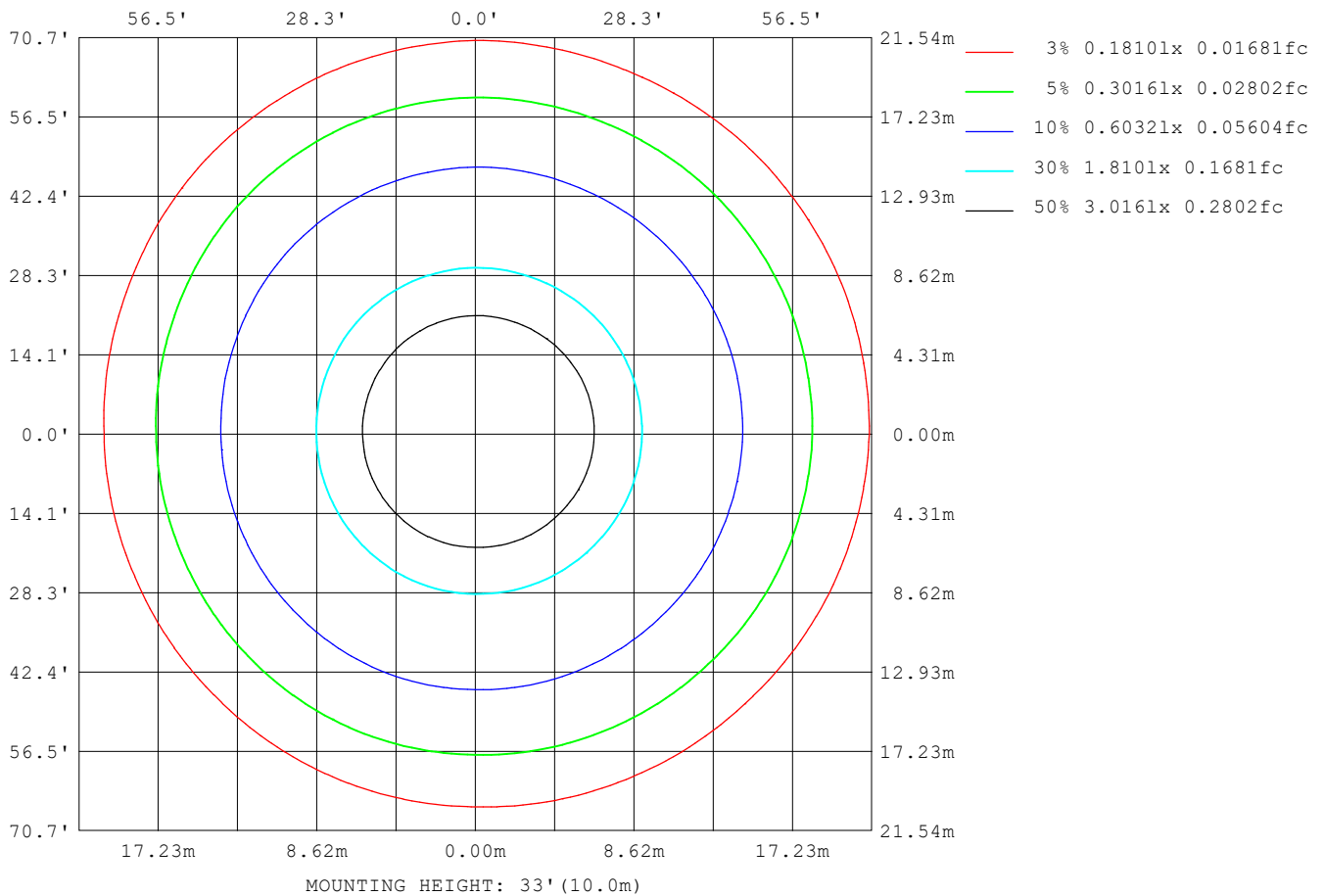
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:8.458m [K=1.0000]
Remarks:

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ISOLUX DIAGRAM

Test:U:120.31V I:0.1605A P:19.042W PF:0.9862 Freq:59.98Hz Lamp Flux:1649.7 lm		
NAME: ASD-JBS-8D20WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	Shielding Angle:0



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-07-05

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:8.458m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.31V I:0.1605A P:19.042W PF:0.9862 Freq:59.98Hz Lamp Flux:1649.7 lm		
NAME: ASD-JBS-8D20WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	Shielding Angle:0

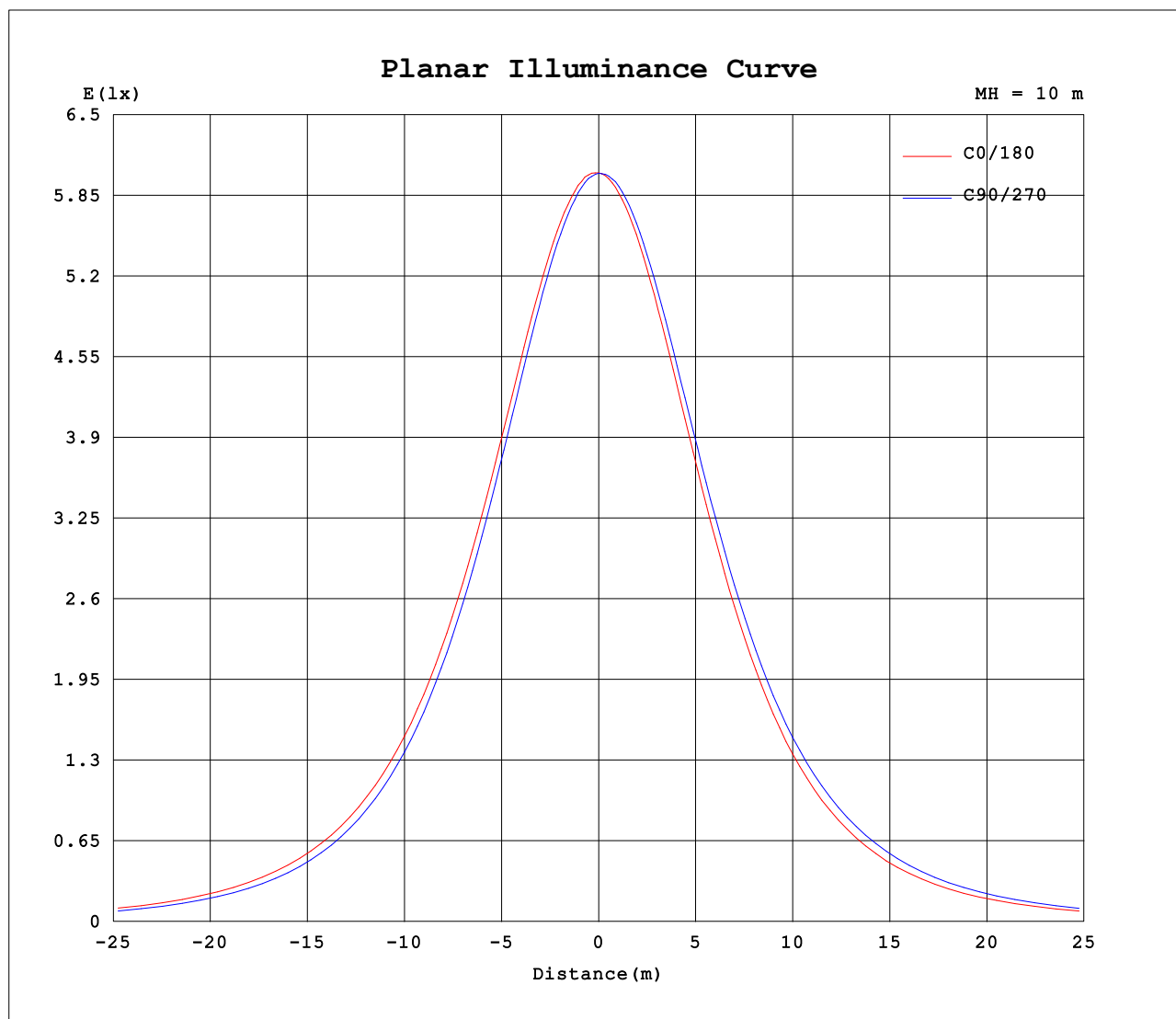
AvgL	cd/m2
L_0~180 (65) av	63804
L_0~180 (75) av	57297
L_0~180 (85) av	47185
L_90~270 (65) av	64061
L_90~270 (75) av	57343
L_90~270 (85) av	46861
L_45 (65) av	63861
L_45 (75) av	57217
L_45 (85) av	46775

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-07-05

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:8.458m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2025-07-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity: 65.0%
Test Distance: 8.458m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.31V I:0.1605A P:19.042W PF:0.9862 Freq:59.98Hz Lamp Flux:1649.7 lm		
NAME: ASD-JBS-8D20WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	Shielding Angle:0

Table--1

UNIT: cd

C (DEG) γ (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	603	603	604	604	603	603	603	604	603	603	604	604	603	603	603	604			
5	603	602	600	600	598	598	598	597	598	599	600	602	603	603	603	605			
10	598	596	593	591	589	588	587	587	588	589	592	596	597	597	598	599			
15	588	585	580	577	574	573	571	571	572	575	580	583	586	587	588	589			
20	573	568	562	558	554	553	550	550	551	555	562	567	570	571	573	574			
25	552	546	539	534	529	528	525	525	526	531	539	545	549	550	553	554			
30	526	520	511	505	500	498	494	494	496	502	512	518	523	524	527	529			
35	496	489	479	472	466	464	460	459	462	469	480	487	493	494	498	499			
40	461	453	442	435	428	426	422	421	424	432	444	453	459	459	463	464			
45	423	413	402	394	387	384	380	378	382	391	404	414	420	422	425	427			
50	380	371	358	349	342	339	335	334	338	347	362	372	378	380	384	385			
55	335	325	311	303	295	292	287	287	291	301	316	326	334	335	339	340			
60	287	276	263	253	246	243	239	238	242	253	268	279	286	286	291	292			
65	238	227	213	203	196	193	189	189	193	204	219	230	237	237	242	242			
70	188	178	163	153	146	144	140	140	145	155	170	180	187	187	192	192			
75	139	128	115	106	99.2	97.0	94.0	93.8	98.2	108	122	132	138	138	143	143			
80	92.3	82.7	69.4	61.5	55.4	53.9	51.4	51.8	55.1	64.1	77.2	85.8	91.6	91.7	95.9	96.0			
85	49.2	39.9	28.4	21.3	16.6	15.7	13.6	13.5	16.6	24.6	36.1	43.7	48.7	49.2	52.4	52.9			
90	11.1	4.41	0.30	0.31	0.29	0.33	0.30	0.35	0.52	0.53	1.47	7.16	11.3	11.9	14.3	14.6			
95	0.32	0.40	0.43	0.51	0.50	0.54	0.51	0.55	0.71	0.62	0.58	0.51	0.53	0.52	0.54	0.52			
100	0.54	0.63	0.67	0.76	0.75	0.80	0.78	0.81	0.99	0.89	0.83	0.74	0.75	0.71	0.72	0.69			
105	0.79	0.89	0.96	1.05	1.06	1.09	1.09	1.11	1.31	1.22	1.14	1.05	1.04	1.00	1.00	0.97			
110	1.10	1.20	1.29	1.38	1.40	1.44	1.44	1.46	1.68	1.59	1.49	1.40	1.38	1.34	1.34	1.31			
115	1.45	1.55	1.64	1.72	1.76	1.77	1.79	1.80	2.04	1.95	1.85	1.77	1.74	1.71	1.69	1.68			
120	1.80	1.89	1.99	2.07	2.11	2.13	2.15	2.15	2.40	2.32	2.21	2.14	2.10	2.09	2.05	2.05			
125	2.13	2.22	2.32	2.40	2.45	2.45	2.48	2.49	2.74	2.67	2.56	2.50	2.44	2.45	2.40	2.40			
130	2.45	2.53	2.64	2.70	2.75	2.75	2.78	2.79	3.03	2.97	2.86	2.81	2.77	2.76	2.72	2.72			
135	2.73	2.80	2.90	2.95	3.00	3.01	3.04	3.04	3.28	3.22	3.14	3.09	3.04	3.04	3.00	3.00			
140	2.97	3.04	3.13	3.17	3.21	3.23	3.26	3.26	3.48	3.43	3.35	3.30	3.27	3.27	3.23	3.23			
145	3.17	3.23	3.30	3.34	3.37	3.41	3.42	3.41	3.62	3.58	3.51	3.47	3.45	3.43	3.41	3.40			
150	3.32	3.37	3.42	3.46	3.48	3.51	3.53	3.52	3.70	3.66	3.61	3.58	3.55	3.56	3.54	3.52			
155	3.45	3.49	3.54	3.57	3.60	3.62	3.63	3.61	3.72	3.68	3.65	3.62	3.62	3.61	3.59	3.59			
160	3.58	3.61	3.65	3.66	3.71	3.73	3.72	3.70	3.75	3.74	3.70	3.70	3.68	3.68	3.66	3.66			
165	3.75	3.77	3.80	3.84	3.85	3.85	3.83	3.83	3.92	3.89	3.86	3.84	3.83	3.82	3.80	3.81			
170	3.93	3.95	4.01	4.01	4.01	4.01	4.03	4.05	4.17	4.14	4.10	4.09	4.07	4.07	4.04	4.04			
175	4.21	4.24	4.28	4.28	4.29	4.30	4.31	4.31	4.37	4.37	4.34	4.34	4.35	4.36	4.32	4.32			
180	4.48	4.48	4.48	4.47	4.47	4.49	4.51	4.49	4.48	4.49	4.48	4.47	4.47	4.50	4.50	4.49			

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