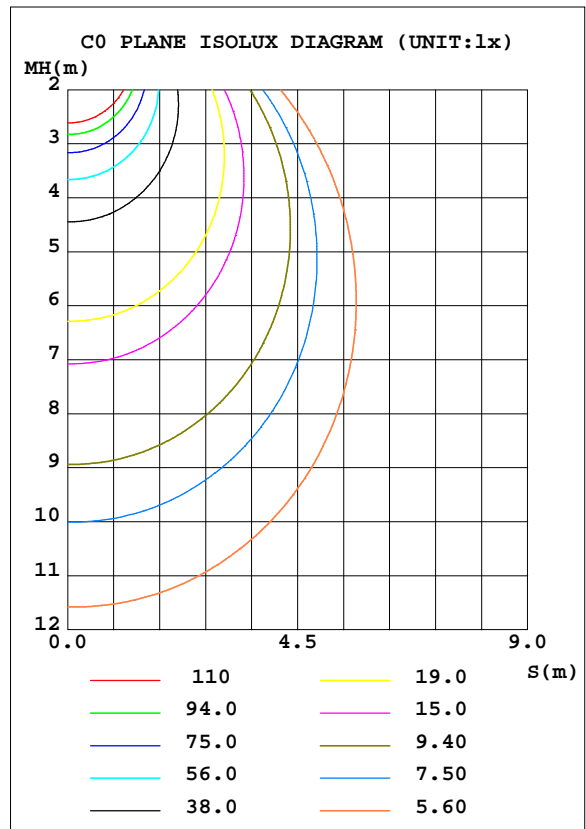
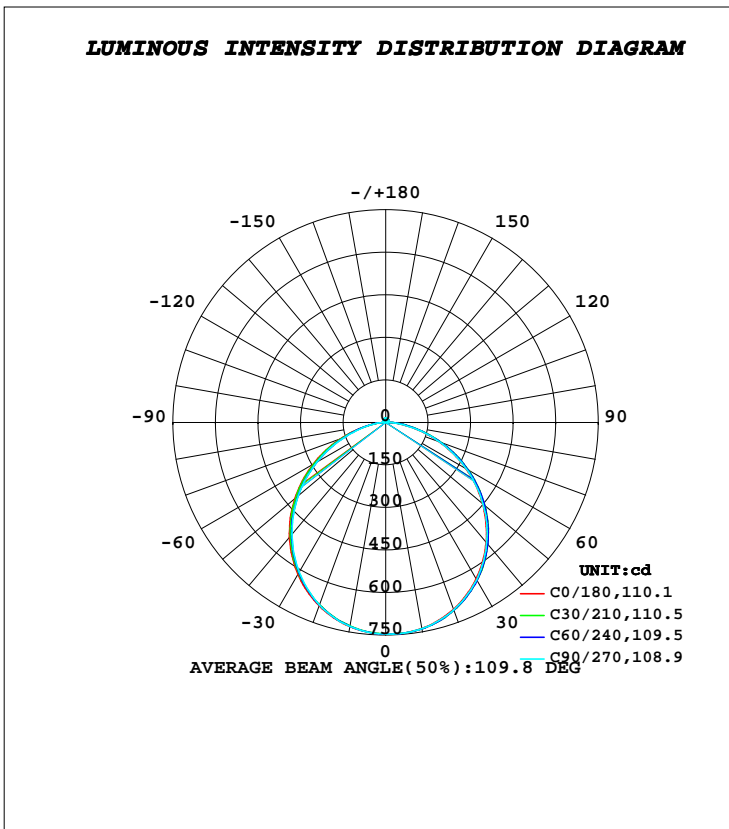


**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:220.60V I:0.0840A P:17.600W PF:0.9500 Freq:50.00Hz		
Lamp Flux:2130.69x1 lm		
NAME: Q290 18W 000 4000K	TYPE: 吸顶灯	
MFR.:	DIM.: $\phi$ 290*55 (mm)	
	SUR.: $\phi$ 252 (mm)	

DATA OF LAMP		PHOTOMETRIC DATA Eff: 121.06 lm/W			
MODEL		I <sub>max</sub> (cd)	746.8	S/MH(C0/180)	1.27
NOMINAL POWER(W)	18	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2130.7	$\eta$ UP, DN(C0-180)	1.4, 50.4
NOMINAL FLUX(lm)	2130.69	CIE CLASS	DIRECT	$\eta$ UP, DN(C180-360)	1.5, 46.7
LAMPS INSIDE	1	$\eta$ up(%)	2.9	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220.6	$\eta$ down(%)	97.1	CIBSE SHR MAX	1.35



**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: DAMIN**  
**Test Date: 2021-06-17**

**$\gamma$  Range: 0 - 180DEG**  
 **$\gamma$  Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity: 65.0%**  
**Test Distance: 8.000m [K=0.7063]**  
**Remarks: 灯珠: HL-A-2835H431W-S1-08-HR3,**  
**鸿利, 0.2W, 4000K**  
**电源: LF-GIRO22YM0500H**  
**灯板: Q290-11S19P-V1.0**

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

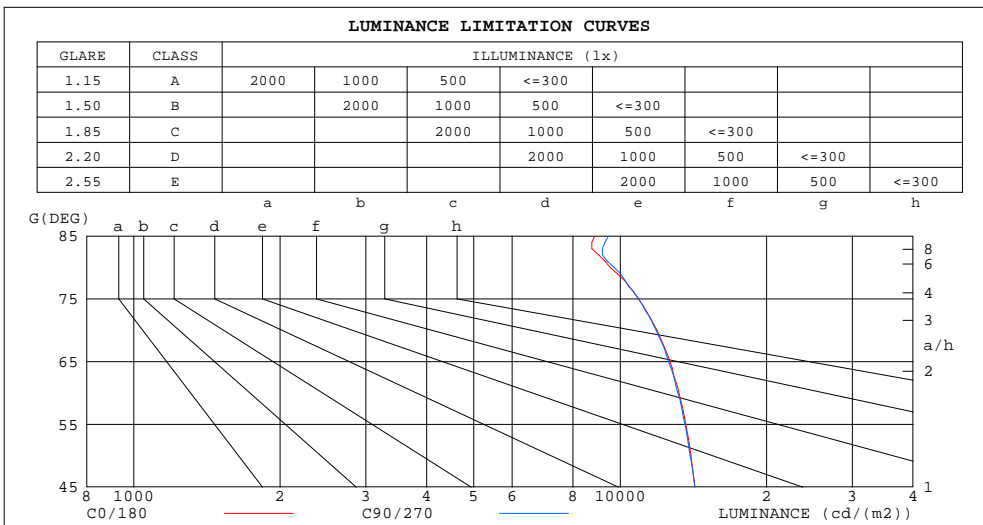
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	737.6	739.5	738.5	734.3	730.5	728.8	729.7	733.5	0- 10	70.67	70.67	3.32,3.32
20	701.0	704.3	702.5	694.9	687.2	684.5	684.8	693.3	10- 20	202.5	273.1	12.8,12.8
30	637.9	644.0	641.0	630.6	618.6	613.4	609.7	625.5	20- 30	305.9	579.1	27.2,27.2
40	551.2	560.3	554.4	543.2	528.2	520.2	514.2	535.3	30- 40	366.4	945.4	44.4,44.4
50	446.5	456.2	448.3	436.5	419.2	409.7	402.8	426.9	40- 50	375.5	1321	62,62
60	328.1	336.7	329.2	315.3	296.2	286.2	280.2	303.9	50- 60	332.0	1653	77.6,77.6
70	202.3	210.1	203.1	187.9	170.1	161.8	155.7	178.7	60- 70	244.3	1897	89,89
80	82.41	91.12	84.60	74.46	58.03	59.25	58.26	72.45	70- 80	133.0	2030	95.3,95.3
90	10.08	15.82	12.07	10.27	6.376	6.422	6.048	8.797	80- 90	39.17	2069	97.1,97.1
100	5.617	7.017	5.746	6.893	7.485	7.193	7.130	6.931	90-100	7.642	2077	97.5,97.5
110	7.211	7.227	6.995	7.191	8.850	8.547	8.519	8.231	100-110	7.678	2085	97.8,97.8
120	8.794	8.444	8.524	8.645	10.25	9.990	9.885	9.622	110-120	8.441	2093	98.2,98.2
130	10.20	9.900	9.883	9.998	11.54	11.30	11.16	10.92	120-130	8.887	2102	98.7,98.7
140	11.52	11.25	11.19	11.31	12.69	12.50	12.33	12.10	130-140	8.675	2111	99.1,99.1
150	13.05	12.65	12.67	12.74	13.84	13.63	13.46	13.23	140-150	7.814	2119	99.4,99.4
160	14.62	14.17	14.29	14.33	14.93	14.76	14.66	14.44	150-160	6.368	2125	99.7,99.7
170	15.82	15.50	15.70	15.65	15.89	15.82	15.79	15.57	160-170	4.269	2129	99.9,99.9
180	16.34	16.25	16.48	16.27	16.40	16.25	16.46	16.27	170-180	1.523	2131	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2021-06-17

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.443  
 Humidity:65.0%  
 Test Distance:8.000m [K=0.7063]  
 Remarks: 灯珠: HL-A-2835H431W-S1-08-HR3,  
 鸿利, 0.2W, 4000K  
 电源: LF-GIRO22YM0500H  
 灯板: Q290-11S19P-V1.0

**LUMINANCE LIMITATION CURVES**

Test:U:220.60V I:0.0840A P:17.600W PF:0.9500 Freq:50.00Hz Lamp Flux:2130.69x1 lm		
NAME: Q290 18W 000 4000K	TYPE: 吸顶灯	
MFR.:	DIM.: $\phi$ 290*55 (mm)	
	SUR.: $\phi$ 252 (mm)	



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	8865	9462
80	9553	9727
75	10898	10920
70	11906	11856
65	12647	12577
60	13208	13146
55	13650	13595
50	13983	13925
45	14253	14236

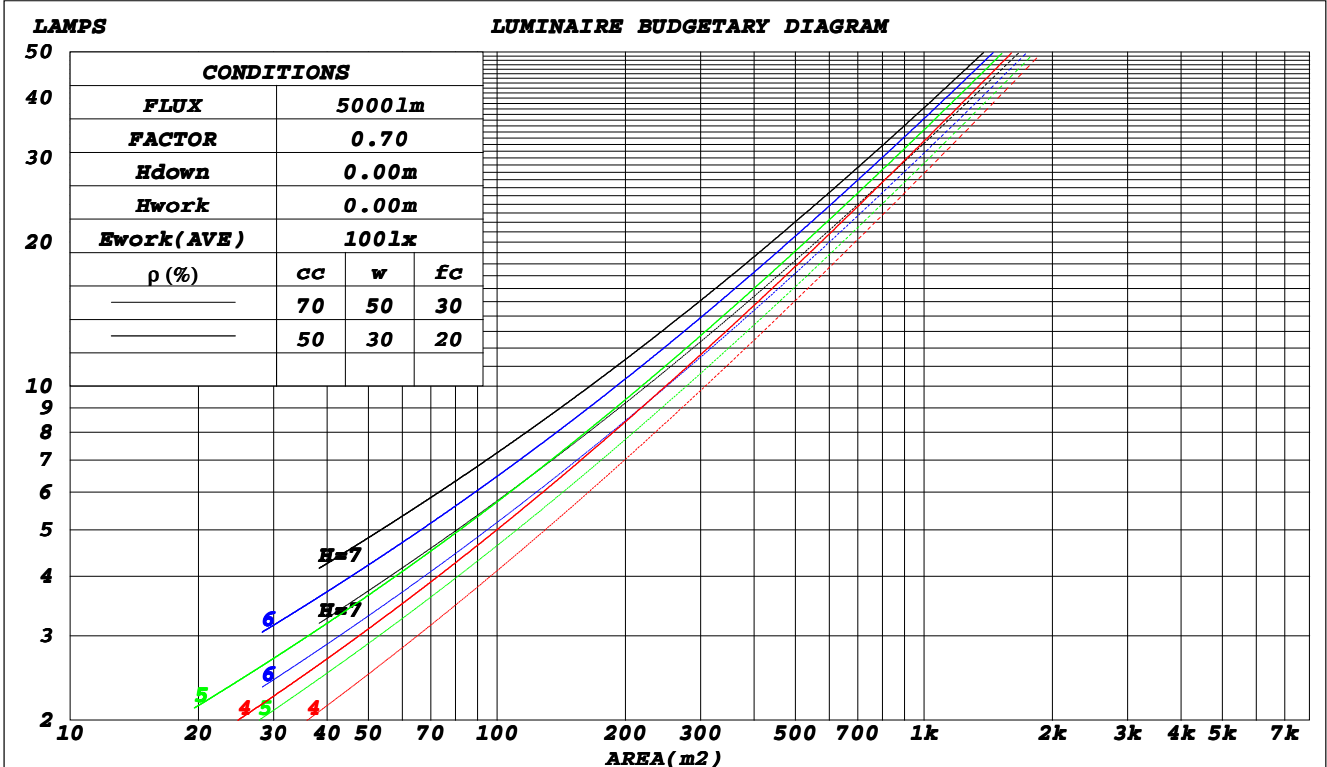
**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: DAMIN**  
**Test Date: 2021-06-17**

**$\gamma$  Range: 0 - 180DEG**  
 **$\gamma$  Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity: 65.0%**  
**Test Distance: 8.000m [K=0.7063]**  
**Remarks: 灯珠: HL-A-2835H431W-S1-08-HR3,**  
**鸿利, 0.2W, 4000K**  
**电源: LF-GIRO22YM0500H**  
**灯板: Q290-11S19P-V1.0**

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:220.60V I:0.0840A P:17.600W PF:0.9500 Freq:50.00Hz		
Lamp Flux:2130.69x1 lm		
NAME: Q290 18W 000 4000K	TYPE: 吸顶灯	
MFR.:	DIM.: $\phi$ 290*55 (mm)	
	SUR.: $\phi$ 252 (mm)	

$\rho_{cc}$	80%			70%			50%			30%			10%			0	
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
$\rho_{fc}$	20%			20%			20%			20%			20%			0	
<b>RCR</b>	<b>RCR:Room Cavity Ratio</b>						<b>Coefficients of Utilization(CU)</b>										
0.0	1.18	1.18	1.18	1.15	1.15	1.15	1.10	1.10	1.10	1.04	1.04	1.04	.99	.99	.99	.97	
1.0	1.03	.99	.95	1.01	.97	.94	.96	.93	.90	.92	.89	.87	.88	.86	.84	.82	
2.0	.90	.84	.78	.88	.82	.77	.84	.79	.75	.80	.76	.72	.77	.74	.70	.68	
3.0	.79	.71	.65	.78	.70	.64	.74	.68	.63	.71	.66	.61	.68	.64	.60	.57	
4.0	.70	.62	.55	.69	.61	.54	.66	.59	.53	.63	.57	.52	.61	.56	.51	.49	
5.0	.63	.54	.47	.62	.53	.47	.59	.52	.46	.57	.50	.45	.55	.49	.45	.43	
6.0	.57	.48	.41	.56	.47	.41	.53	.46	.40	.51	.45	.40	.50	.44	.39	.37	
7.0	.51	.43	.37	.50	.42	.36	.49	.41	.36	.47	.40	.35	.45	.39	.35	.33	
8.0	.47	.38	.33	.46	.38	.32	.44	.37	.32	.43	.36	.32	.42	.36	.31	.29	
9.0	.43	.35	.29	.42	.34	.29	.41	.34	.29	.40	.33	.29	.38	.33	.28	.26	
10.0	.40	.32	.27	.39	.32	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24	



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2021-06-17

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.443  
 Humidity: 65.0%  
 Test Distance: 8.000m [K=0.7063]  
 Remarks: 灯珠: HL-A-2835H431W-S1-08-HR3,  
 鸿利, 0.2W, 4000K  
 电源: LF-GI022YM0500H  
 灯板: Q290-11S19P-V1.0

WEC AND CCEC

Test:U:220.60V I:0.0840A P:17.600W PF:0.9500 Freq:50.00Hz		
Lamp Flux:2130.69x1 lm		
NAME: Q290 18W 000 4000K	TYPE: 吸顶灯	
MFR.:	DIM.: $\phi$ 290*55 (mm)	
	SUR.: $\phi$ 252 (mm)	

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
<b>RCR</b>	<b>RCR:Room Cavity Ratio</b>						<b>Wall Exitance Coefficients(WEC)</b>									
0.0																
1.0	.304	.173	.055	.296	.169	.054	.281	.161	.051	.267	.154	.049	.255	.148	.048	
2.0	.286	.157	.048	.279	.154	.047	.266	.148	.046	.254	.142	.045	.243	.137	.043	
3.0	.265	.141	.042	.259	.139	.042	.247	.134	.041	.237	.130	.040	.226	.125	.039	
4.0	.245	.127	.037	.240	.125	.037	.229	.122	.036	.220	.118	.036	.211	.114	.035	
5.0	.227	.116	.034	.222	.114	.033	.213	.111	.033	.204	.108	.032	.196	.105	.031	
6.0	.211	.106	.030	.206	.104	.030	.198	.101	.030	.190	.099	.029	.183	.096	.029	
7.0	.196	.097	.028	.192	.096	.027	.185	.093	.027	.178	.091	.027	.171	.089	.026	
8.0	.184	.090	.025	.180	.089	.025	.173	.087	.025	.167	.085	.024	.161	.083	.024	
9.0	.172	.083	.023	.169	.082	.023	.163	.081	.023	.157	.079	.023	.152	.077	.022	
10.0	.162	.078	.022	.159	.077	.021	.153	.075	.021	.148	.074	.021	.143	.072	.021	

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
<b>RCR</b>	<b>RCR:Room Cavity Ratio</b>						<b>Ceiling Cavity Exitance Coefficients(CCEC)</b>									
0.0	.212	.212	.212	.182	.182	.182	.124	.124	.124	.071	.071	.071	.023	.023	.023	
1.0	.202	.178	.157	.173	.153	.135	.118	.105	.093	.068	.061	.054	.022	.020	.018	
2.0	.194	.154	.121	.166	.133	.105	.114	.092	.073	.066	.053	.043	.021	.017	.014	
3.0	.186	.137	.097	.159	.118	.084	.109	.082	.059	.063	.048	.035	.020	.016	.011	
4.0	.178	.123	.081	.153	.107	.071	.105	.074	.050	.061	.044	.029	.020	.014	.010	
5.0	.171	.113	.070	.147	.098	.061	.101	.068	.043	.059	.040	.026	.019	.013	.008	
6.0	.164	.105	.062	.141	.091	.054	.097	.063	.038	.056	.037	.023	.018	.012	.008	
7.0	.157	.098	.056	.135	.085	.049	.093	.059	.035	.054	.035	.021	.018	.011	.007	
8.0	.151	.092	.052	.130	.080	.045	.090	.056	.032	.052	.033	.019	.017	.011	.006	
9.0	.145	.087	.048	.125	.076	.042	.086	.053	.030	.050	.031	.018	.016	.010	.006	
10.0	.139	.083	.045	.120	.072	.040	.083	.051	.028	.049	.030	.017	.016	.010	.006	

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2021-06-17

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.443  
 Humidity:65.0%  
 Test Distance:8.000m [K=0.7063]  
 Remarks: 灯珠: HL-A-2835H431W-S1-08-HR3,  
 鸿利, 0.2W, 4000K  
 电源: LF-GIRO22YM0500H  
 灯板: Q290-11S19P-V1.0

**UGR(Unified Glare Rating) Table**

Test:U:220.60V I:0.0840A P:17.600W PF:0.9500 Freq:50.00Hz										
Lamp Flux:2130.69x1 lm										
NAME: Q290 18W 000 4000K					TYPE: 吸顶灯					
MFR.:					DIM.: $\phi$ 290*55 (mm)					
					SUR.: $\phi$ 252 (mm)					
<b>ceiling/cavity</b>	<b>0.7</b>	<b>0.7</b>	<b>0.5</b>	<b>0.5</b>	<b>0.3</b>	<b>0.7</b>	<b>0.7</b>	<b>0.5</b>	<b>0.5</b>	<b>0.3</b>
<b>walls</b>	<b>0.5</b>	<b>0.3</b>	<b>0.5</b>	<b>0.3</b>	<b>0.3</b>	<b>0.5</b>	<b>0.3</b>	<b>0.5</b>	<b>0.3</b>	<b>0.3</b>
<b>working plane</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>
<b>Room dimensions</b>	<b>Viewed crosswise</b>					<b>Viewed endwise</b>				
<b>x = 2H y = 2H</b>	<b>21.3</b>	<b>22.9</b>	<b>21.7</b>	<b>23.3</b>	<b>23.7</b>	<b>21.1</b>	<b>22.6</b>	<b>21.5</b>	<b>23.0</b>	<b>23.4</b>
<b>3H</b>	<b>23.1</b>	<b>24.5</b>	<b>23.5</b>	<b>24.9</b>	<b>25.3</b>	<b>22.8</b>	<b>24.2</b>	<b>23.3</b>	<b>24.6</b>	<b>25.1</b>
<b>4H</b>	<b>23.8</b>	<b>25.1</b>	<b>24.2</b>	<b>25.5</b>	<b>26.0</b>	<b>23.5</b>	<b>24.8</b>	<b>23.9</b>	<b>25.2</b>	<b>25.7</b>
<b>6H</b>	<b>24.2</b>	<b>25.5</b>	<b>24.7</b>	<b>25.9</b>	<b>26.4</b>	<b>24.0</b>	<b>25.2</b>	<b>24.4</b>	<b>25.6</b>	<b>26.1</b>
<b>8H</b>	<b>24.4</b>	<b>25.6</b>	<b>24.9</b>	<b>26.0</b>	<b>26.5</b>	<b>24.1</b>	<b>25.3</b>	<b>24.6</b>	<b>25.7</b>	<b>26.2</b>
<b>12H</b>	<b>24.5</b>	<b>25.6</b>	<b>25.0</b>	<b>26.1</b>	<b>26.6</b>	<b>24.2</b>	<b>25.4</b>	<b>24.7</b>	<b>25.8</b>	<b>26.3</b>
<b>4H 2H</b>	<b>22.0</b>	<b>23.3</b>	<b>22.4</b>	<b>23.7</b>	<b>24.1</b>	<b>21.6</b>	<b>22.9</b>	<b>22.1</b>	<b>23.4</b>	<b>23.8</b>
<b>3H</b>	<b>24.0</b>	<b>25.1</b>	<b>24.4</b>	<b>25.6</b>	<b>26.0</b>	<b>23.6</b>	<b>24.7</b>	<b>24.1</b>	<b>25.2</b>	<b>25.6</b>
<b>4H</b>	<b>24.8</b>	<b>25.8</b>	<b>25.3</b>	<b>26.3</b>	<b>26.8</b>	<b>24.4</b>	<b>25.4</b>	<b>24.9</b>	<b>25.8</b>	<b>26.3</b>
<b>6H</b>	<b>25.4</b>	<b>26.3</b>	<b>25.9</b>	<b>26.8</b>	<b>27.3</b>	<b>25.0</b>	<b>25.8</b>	<b>25.5</b>	<b>26.3</b>	<b>26.9</b>
<b>8H</b>	<b>25.6</b>	<b>26.4</b>	<b>26.1</b>	<b>26.9</b>	<b>27.4</b>	<b>25.2</b>	<b>26.0</b>	<b>25.7</b>	<b>26.5</b>	<b>27.0</b>
<b>12H</b>	<b>25.8</b>	<b>26.5</b>	<b>26.3</b>	<b>27.0</b>	<b>27.6</b>	<b>25.4</b>	<b>26.1</b>	<b>25.9</b>	<b>26.6</b>	<b>27.2</b>
<b>8H 4H</b>	<b>25.1</b>	<b>25.9</b>	<b>25.6</b>	<b>26.4</b>	<b>27.0</b>	<b>24.6</b>	<b>25.4</b>	<b>25.1</b>	<b>25.9</b>	<b>26.5</b>
<b>6H</b>	<b>25.9</b>	<b>26.5</b>	<b>26.4</b>	<b>27.1</b>	<b>27.6</b>	<b>25.3</b>	<b>26.0</b>	<b>25.9</b>	<b>26.5</b>	<b>27.1</b>
<b>8H</b>	<b>26.1</b>	<b>26.8</b>	<b>26.7</b>	<b>27.3</b>	<b>27.9</b>	<b>25.6</b>	<b>26.2</b>	<b>26.2</b>	<b>26.8</b>	<b>27.3</b>
<b>12H</b>	<b>26.4</b>	<b>26.9</b>	<b>27.0</b>	<b>27.5</b>	<b>28.1</b>	<b>25.9</b>	<b>26.4</b>	<b>26.4</b>	<b>27.0</b>	<b>27.6</b>
<b>12H 4H</b>	<b>25.1</b>	<b>25.9</b>	<b>25.7</b>	<b>26.4</b>	<b>26.9</b>	<b>24.6</b>	<b>25.4</b>	<b>25.2</b>	<b>25.9</b>	<b>26.4</b>
<b>6H</b>	<b>25.9</b>	<b>26.5</b>	<b>26.5</b>	<b>27.1</b>	<b>27.7</b>	<b>25.4</b>	<b>26.0</b>	<b>25.9</b>	<b>26.5</b>	<b>27.1</b>
<b>8H</b>	<b>26.3</b>	<b>26.8</b>	<b>26.8</b>	<b>27.4</b>	<b>28.0</b>	<b>25.7</b>	<b>26.2</b>	<b>26.3</b>	<b>26.8</b>	<b>27.4</b>
<b>CIE190: 2010</b>										

CIE190: 2010  
Area: 0.05 m2

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2021-06-17

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.443  
Humidity:65.0%  
Test Distance:8.000m [K=0.7063]  
Remarks: 灯珠: HL-A-2835H431W-S1-08-HR3,  
鸿利, 0.2W, 4000K  
电源: LF-GIRO22YM0500H  
灯板: Q290-11S19P-V1.0

**UTILIZATION FACTORS TABLE**

Test:U:220.60V I:0.0840A P:17.600W PF:0.9500 Freq:50.00Hz Lamp Flux:2130.69x1 lm		
NAME: Q290 18W 000 4000K	TYPE: 吸顶灯	
MFR.:	DIM.: $\phi$ 290*55 (mm)	
	SUR.: $\phi$ 252 (mm)	

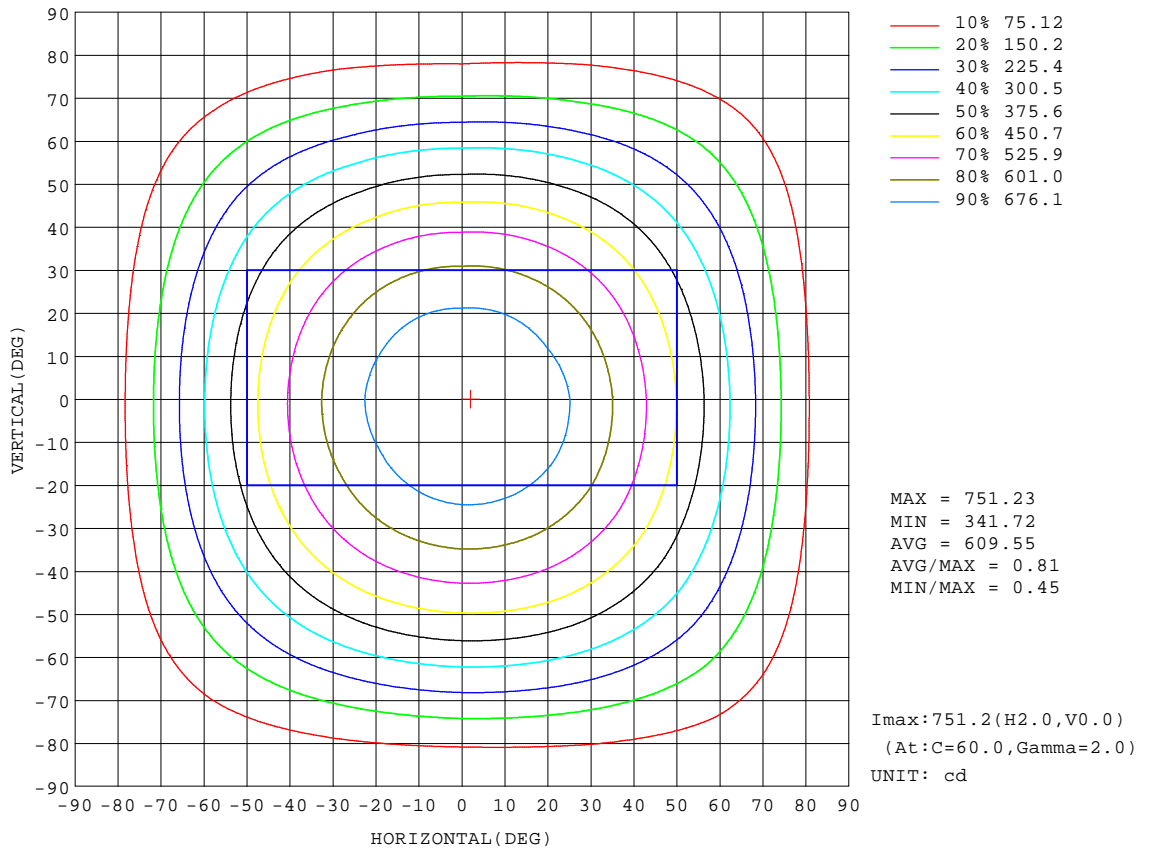
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	46	39	56	45	39	55	45	38	32
0.80	67	56	48	66	55	48	64	54	48	41
1.00	76	65	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	65	78	70	64	56
1.50	88	78	71	86	77	70	83	75	69	61
2.00	94	86	80	92	85	79	89	82	77	69
2.50	98	91	85	96	89	84	92	86	81	72
3.00	102	95	89	99	93	88	95	90	86	76
4.00	106	100	95	103	98	94	98	94	91	81
5.00	108	103	99	105	101	97	100	97	94	84
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:DAMIN**  
**Test Date:2021-06-17**

**$\gamma$  Range: 0 - 180DEG**  
 **$\gamma$  Interval: 1.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity:65.0%**  
**Test Distance:8.000m [K=0.7063]**  
**Remarks: 灯珠: HL-A-2835H431W-S1-08-HR3,**  
**鸿利, 0.2W, 4000K**  
**电源: LF-GIRO22YM0500H**  
**灯板: Q290-11S19P-V1.0**

**ISOCANDELA DIAGRAM**

Test:U:220.60V I:0.0840A P:17.600W PF:0.9500 Freq:50.00Hz Lamp Flux:2130.69x1 lm		
NAME: Q290 18W 000 4000K	TYPE: 吸顶灯	
MFR.:	DIM.: $\phi$ 290*55 (mm)	
	SUR.: $\phi$ 252 (mm)	



**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: DAMIN**  
**Test Date: 2021-06-17**

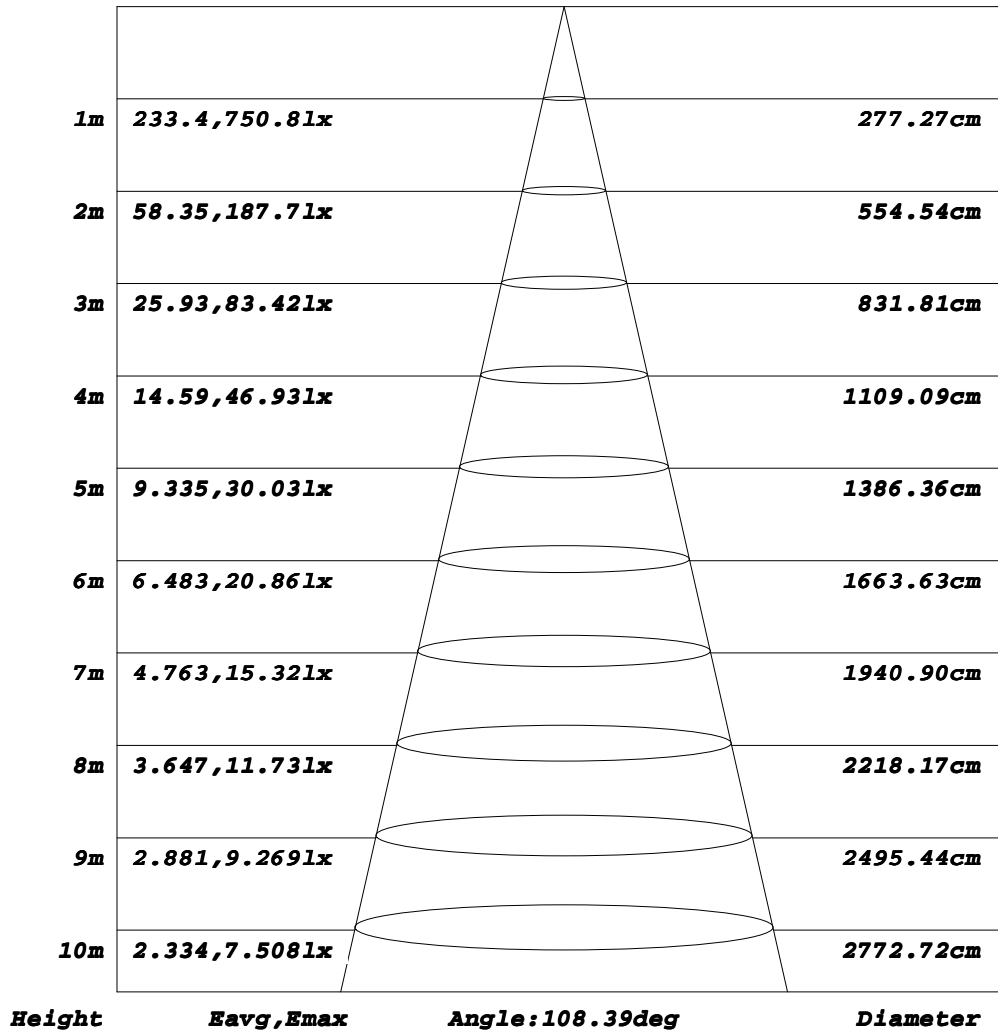
**$\gamma$  Range: 0 - 180DEG**  
 **$\gamma$  Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity: 65.0%**  
**Test Distance: 8.000m [K=0.7063]**  
**Remarks: 灯珠: HL-A-2835H431W-S1-08-HR3,**  
**鸿利, 0.2W, 4000K**  
**电源: LF-GIRO22YM0500H**  
**灯板: Q290-11S19P-V1.0**



**AAI Figure**

Test:U:220.60V I:0.0840A P:17.600W PF:0.9500 Freq:50.00Hz		
Lamp Flux:2130.69x1 lm		
NAME: Q290 18W 000 4000K	TYPE: 吸顶灯	
MFR.:	DIM.: $\phi$ 290*55 (mm)	
	SUR.: $\phi$ 252 (mm)	

**Flux out:1495 lm**



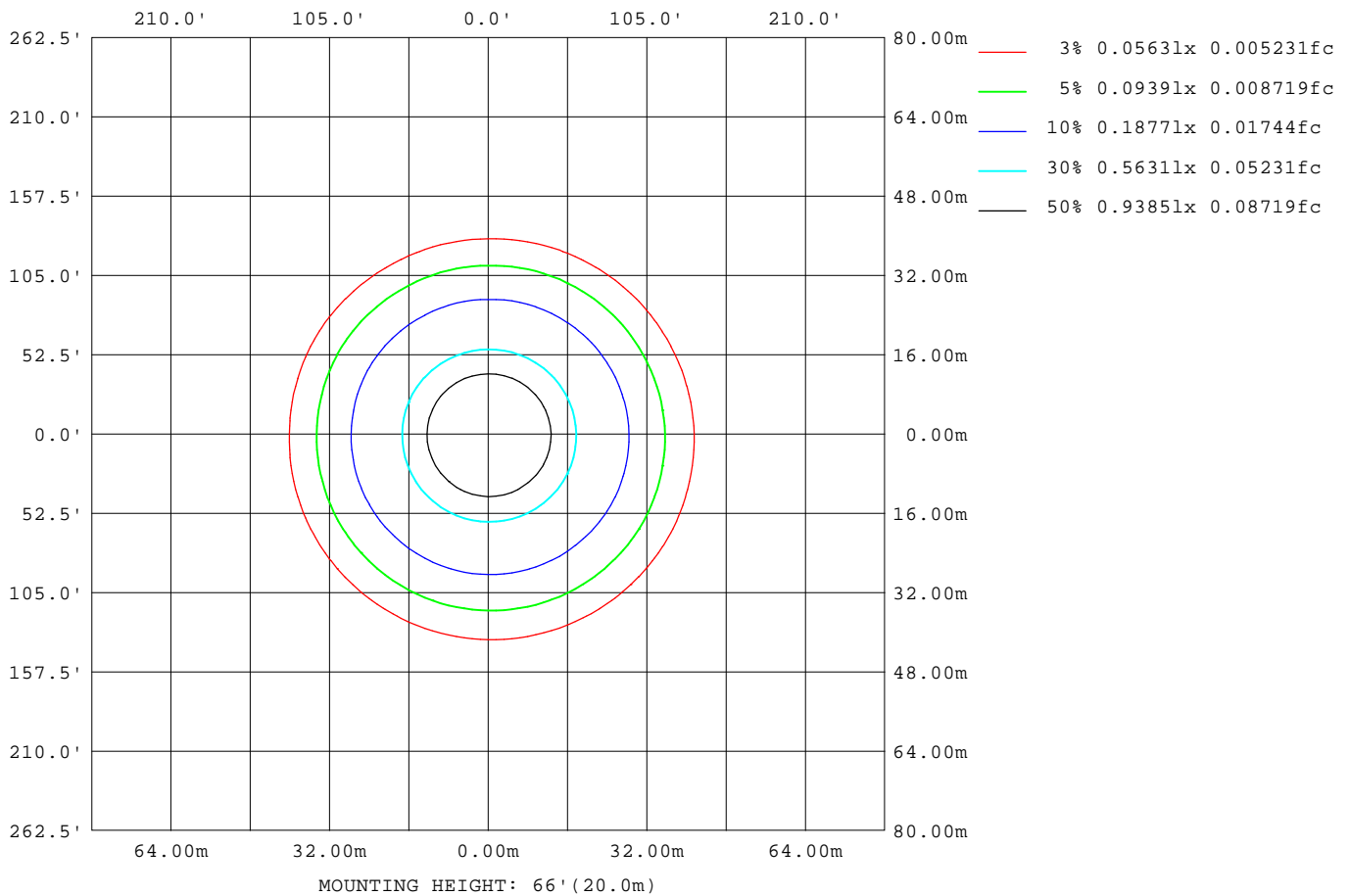
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: DAMIN**  
**Test Date: 2021-06-17**

**$\gamma$  Range: 0 - 180DEG**  
 **$\gamma$  Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity: 65.0%**  
**Test Distance: 8.000m [K=0.7063]**  
**Remarks: 灯珠: HL-A-2835H431W-S1-08-HR3,**  
**鸿利, 0.2W, 4000K**  
**电源: LF-GIRO22YM0500H**  
**灯板: Q290-11S19P-V1.0**

**ISOLUX DIAGRAM**

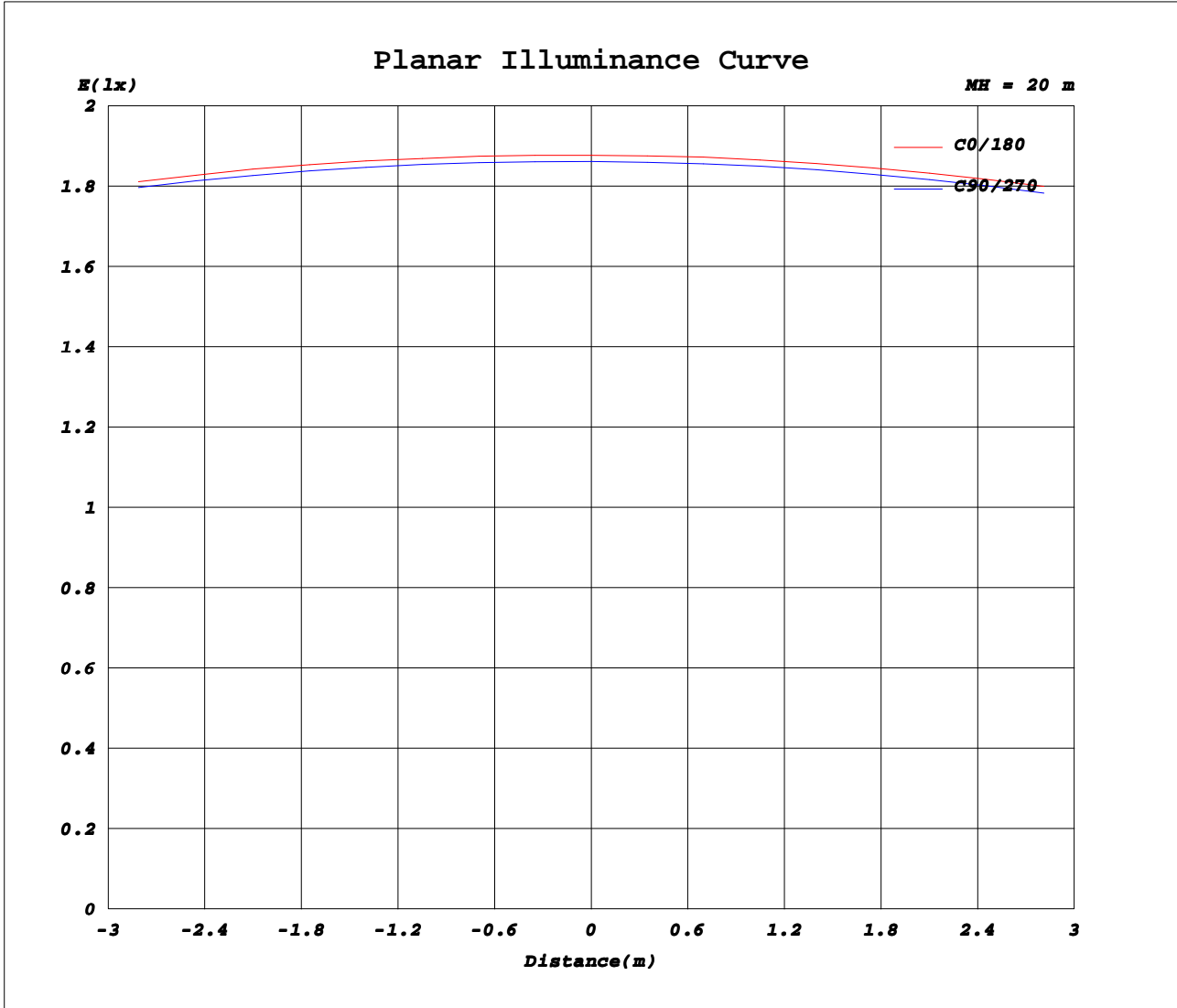
Test:U:220.60V I:0.0840A P:17.600W PF:0.9500 Freq:50.00Hz		
Lamp Flux:2130.69x1 lm		
NAME: Q290 18W 000 4000K	TYPE: 吸顶灯	
MFR.:	DIM.: $\phi$ 290*55 (mm)	
	SUR.: $\phi$ 252 (mm)	



**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: DAMIN**  
**Test Date: 2021-06-17**

**$\gamma$  Range: 0 - 180DEG**  
 **$\gamma$  Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity: 65.0%**  
**Test Distance: 8.000m [K=0.7063]**  
**Remarks: 灯珠: HL-A-2835H431W-S1-08-HR3,**  
**鸿利, 0.2W, 4000K**  
**电源: LF-GIRO22YM0500H**  
**灯板: Q290-11S19P-V1.0**

**Planar Illuminance Curve**



**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: DAMIN**  
**Test Date: 2021-06-17**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity: 65.0%**  
**Test Distance: 8.000m [K=0.7063]**  
**Remarks: 灯珠: HL-A-2835H431W-S1-08-HR3,**  
**鸿利, 0.2W, 4000K**  
**电源: LF-GIR022YM0500H**  
**灯板: Q290-11S19P-V1.0**

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:220.60V I:0.0840A P:17.600W PF:0.9500 Freq:50.00Hz		
Lamp Flux:2130.69x1 lm		
NAME: Q290 18W 000 4000K	TYPE: 吸顶灯	
MFR.:	DIM.: $\phi$ 290*55 (mm)	
	SUR.: $\phi$ 252 (mm)	

Table--1

UNIT: cd

C (DEG) \ $\gamma$ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	746	746	746	746	746	746	746	746	746	746	746	746							
5	745	746	746	745	744	743	742	741	741	742	743	744							
10	738	739	740	739	735	733	731	728	730	730	733	734							
15	722	725	725	724	720	716	712	710	711	711	716	718							
20	701	704	704	702	697	692	687	684	685	685	691	695							
25	672	677	677	674	669	663	656	652	652	650	658	667							
30	638	644	644	641	634	627	619	615	612	610	619	632							
35	597	605	604	601	593	586	576	572	567	564	576	591							
40	551	561	560	554	547	539	528	524	517	514	527	543							
45	501	511	510	504	496	489	476	471	462	460	475	492							
50	446	457	456	448	441	432	419	415	405	403	418	436							
55	389	399	397	391	382	373	358	354	343	342	357	376							
60	328	338	336	329	320	311	296	292	281	280	294	313							
65	266	275	273	266	257	247	233	229	217	218	231	251							
70	202	212	209	203	192	184	170	166	157	156	168	189							
75	140	150	146	142	131	124	111	107	106	101	114	129							
80	82.4	93.2	89.1	84.6	77.9	71.0	58.0	57.2	61.3	58.3	69.6	75.3							
85	38.4	48.1	47.0	41.3	38.0	31.5	23.1	21.8	23.1	22.6	30.6	35.2							
90	10.1	15.5	16.1	12.1	11.8	8.70	6.38	6.45	6.39	6.05	7.83	9.77							
95	4.90	6.85	7.77	5.45	7.55	7.12	6.86	6.72	6.65	6.48	6.54	6.57							
100	5.62	6.98	7.05	5.75	6.68	7.10	7.49	7.25	7.14	7.13	6.94	6.92							
105	6.41	7.31	6.47	6.21	6.21	7.15	8.16	7.92	7.79	7.83	7.59	7.54							
110	7.21	7.62	6.83	7.00	7.05	7.33	8.85	8.64	8.46	8.52	8.26	8.21							
115	8.01	7.71	7.61	7.77	7.83	7.95	9.55	9.36	9.17	9.20	8.98	8.88							
120	8.79	8.50	8.39	8.52	8.59	8.70	10.2	10.1	9.89	9.89	9.67	9.58							
125	9.51	9.26	9.13	9.21	9.27	9.38	10.9	10.8	10.5	10.5	10.3	10.2							
130	10.2	9.94	9.86	9.88	9.94	10.1	11.5	11.4	11.2	11.2	11.0	10.9							
135	10.9	10.7	10.5	10.5	10.6	10.7	12.1	12.0	11.8	11.8	11.6	11.5							
140	11.5	11.3	11.2	11.2	11.2	11.4	12.7	12.6	12.4	12.3	12.1	12.1							
145	12.3	12.0	11.8	11.9	11.9	12.0	13.3	13.1	13.0	12.9	12.7	12.6							
150	13.1	12.8	12.5	12.7	12.7	12.8	13.8	13.6	13.6	13.5	13.2	13.2							
155	13.8	13.5	13.3	13.5	13.5	13.6	14.4	14.2	14.2	14.0	13.8	13.8							
160	14.6	14.2	14.1	14.3	14.2	14.4	14.9	14.7	14.8	14.7	14.4	14.5							
165	15.3	14.9	14.8	15.1	15.0	15.1	15.4	15.3	15.4	15.3	15.0	15.1							
170	15.8	15.5	15.5	15.7	15.6	15.7	15.9	15.8	15.9	15.8	15.6	15.6							
175	16.1	16.0	15.9	16.3	16.1	16.1	16.2	16.0	16.2	16.2	16.0	15.9							
180	16.3	16.2	16.3	16.5	16.3	16.3	16.4	16.2	16.3	16.5	16.3	16.2							

**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: DAMIN**  
**Test Date: 2021-06-17**

**$\gamma$  Range: 0 - 180DEG**  
 **$\gamma$  Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity: 65.0%**  
**Test Distance: 8.000m [K=0.7063]**  
**Remarks: 灯珠: HL-A-2835H431W-S1-08-HR3,**  
**鸿利, 0.2W, 4000K**  
**电源: LF-GIRO22YM0500H**  
**灯板: Q290-11S19P-V1.0**