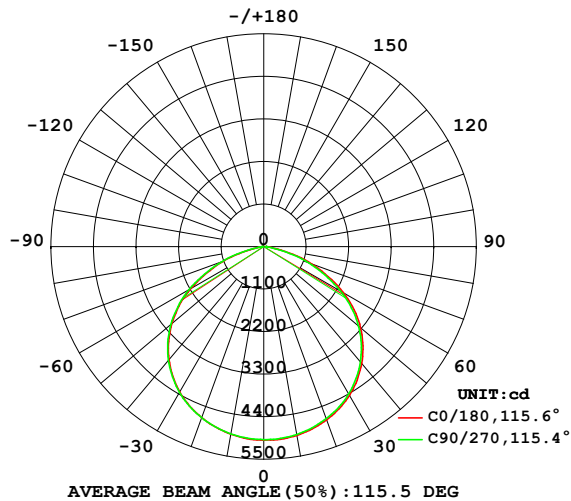


LUMINAIRE PHOTOMETRIC TEST REPORT

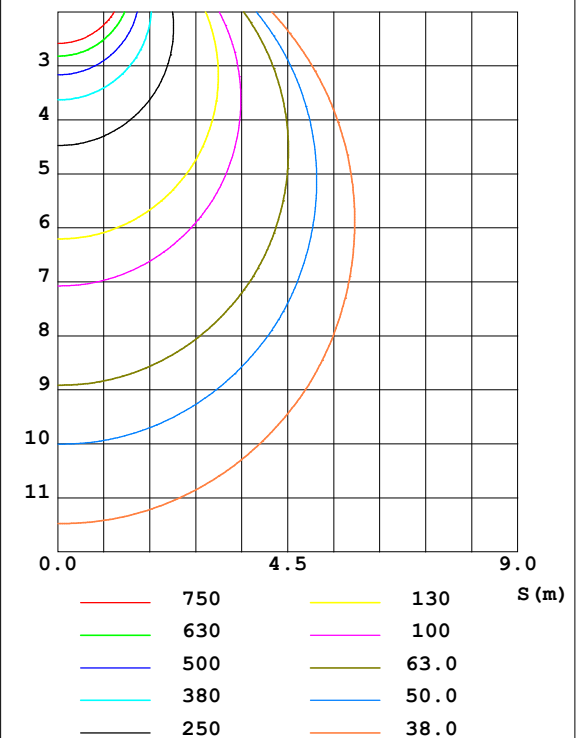
NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\varnothing 280 \times H114$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\varphi 0.28$	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 141.38 lm/W
MODEL	UFO-100W-120D	Imax(cd)	5005	S/MH(C0/180)	1.32	
NOMINAL POWER(W)	100.9	LOR(%)	100.0	S/MH(C90/270)	1.31	
RATED VOLTAGE(V)	232	TOTAL FLUX(lm)	14265	η UP,DN(C0-180)	0.0,51.1	
NOMINAL FLUX(lm)	14264.9	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,48.9	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	232.8	η down(%)	100.0	CIBSE SHR MAX	1.35	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:chen xue chang
Test Date:2022-03-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.300m [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	4956	4951	4931	4933	4924	4920	4917	4917	0- 10	473.9	473.9	3.32,3.32
20	4766	4759	4734	4738	4702	4701	4706	4703	10- 20	1369	1843	12.9,12.9
30	4442	4435	4399	4407	4343	4343	4355	4350	20- 30	2110	3952	27.7,27.7
40	3940	3932	3890	3901	3811	3812	3835	3825	30- 40	2594	6546	45.9,45.9
50	3271	3258	3205	3221	3101	3106	3137	3131	40- 50	2734	9280	65.1,65.1
60	2376	2372	2282	2321	2179	2180	2237	2213	50- 60	2454	11734	82.3,82.3
70	1315	1309	1244	1266	1117	1134	1170	1160	60- 70	1716	13451	94.3,94.3
80	296.9	287.6	251.6	262.2	163.3	169.2	191.8	185.9	70- 80	722.6	14173	99.4,99.4
90	61.01	60.92	60.58	60.33	43.82	43.67	43.52	43.32	80- 90	91.64	14265	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

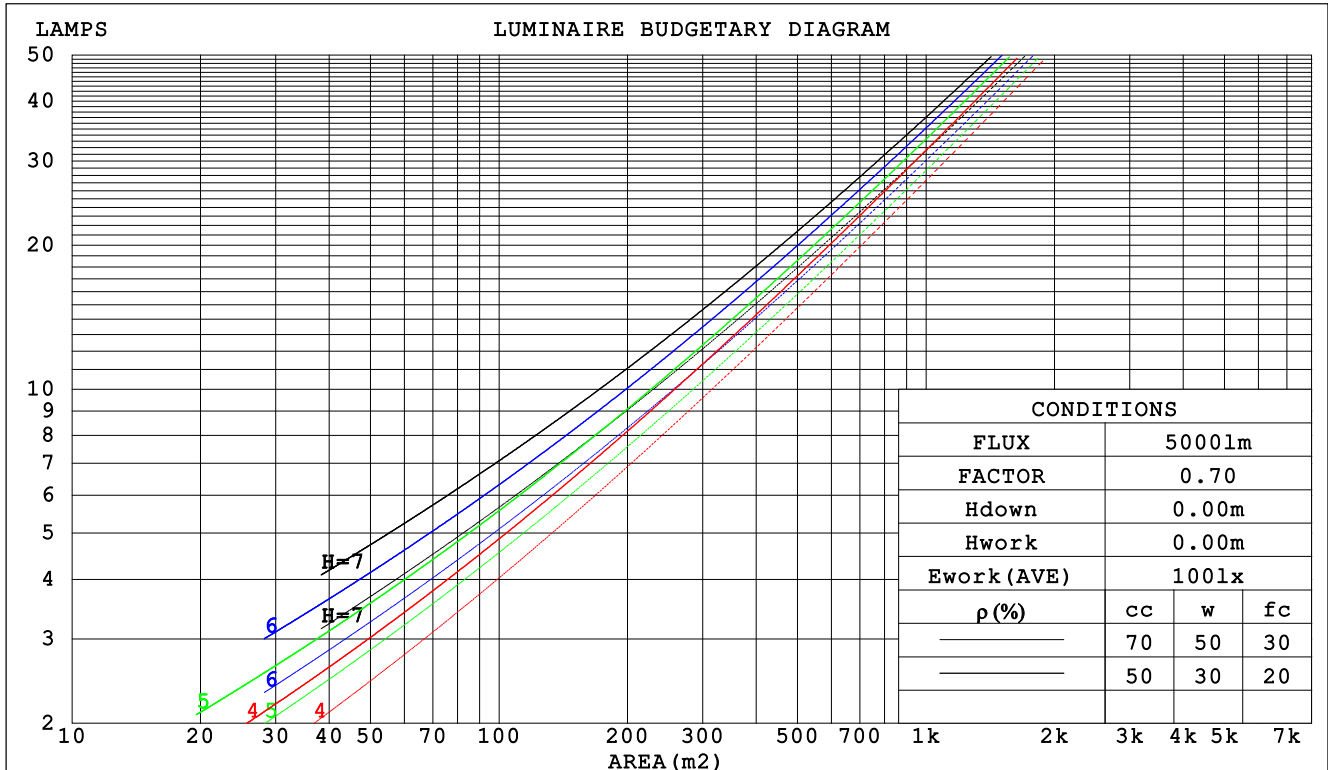
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:chen xue chang
 Test Date:2022-03-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity:65.0%
 Test Distance:7.300m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\phi 280 \times H114$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\phi 0.28$	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	1.02	1.02	1.02	1.00
1.0	1.05	1.01	.97	1.03	.99	.96	.99	.96	.93	.95	.92	.90	.91	.89	.87	.85
2.0	.92	.85	.80	.90	.84	.79	.86	.81	.77	.83	.79	.75	.80	.77	.74	.71
3.0	.81	.73	.67	.79	.72	.66	.76	.70	.65	.74	.68	.64	.71	.66	.63	.60
4.0	.72	.63	.56	.70	.62	.56	.68	.61	.55	.65	.59	.54	.63	.58	.54	.52
5.0	.64	.55	.48	.63	.54	.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	.46	.41	.39
7.0	.52	.43	.37	.51	.43	.37	.50	.42	.37	.48	.42	.37	.47	.41	.36	.34
8.0	.47	.39	.33	.47	.39	.33	.45	.38	.33	.44	.37	.33	.43	.37	.32	.30
9.0	.43	.35	.30	.43	.35	.30	.42	.35	.30	.41	.34	.29	.40	.34	.29	.27
10.0	.40	.32	.27	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.26	.25



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: chen xue chang
 Test Date: 2022-03-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity: 65.0%
 Test Distance: 7.300m [K=1.0000]
 Remarks:

WEC AND CCEC

NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\phi 280 \times H114$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\phi 0.28$	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	.288	.164	.052	.281	.160	.051	.268	.154	.049	.256	.147	.047	.244	.142	.046		
2.0	.278	.152	.047	.272	.150	.046	.260	.145	.045	.250	.140	.044	.240	.136	.043		
3.0	.261	.139	.042	.255	.137	.041	.245	.133	.040	.236	.129	.040	.227	.126	.039		
4.0	.243	.126	.037	.238	.125	.037	.229	.121	.036	.221	.118	.036	.213	.116	.035		
5.0	.226	.115	.033	.222	.114	.033	.214	.111	.033	.206	.109	.032	.199	.106	.032		
6.0	.210	.106	.030	.207	.104	.030	.199	.102	.030	.193	.100	.029	.186	.098	.029		
7.0	.196	.097	.028	.193	.096	.027	.187	.094	.027	.181	.093	.027	.175	.091	.027		
8.0	.184	.090	.025	.181	.089	.025	.175	.088	.025	.170	.086	.025	.165	.085	.025		
9.0	.173	.084	.023	.170	.083	.023	.165	.081	.023	.160	.080	.023	.155	.079	.023		
10.0	.163	.078	.022	.160	.077	.022	.155	.076	.021	.151	.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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.179	.156	.136	.153	.134	.117	.105	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.170	.132	.100	.146	.114	.086	.100	.079	.060	.058	.046	.035	.019	.015	.011	
3.0	.163	.114	.076	.140	.099	.066	.096	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.155	.101	.059	.133	.087	.051	.092	.061	.036	.053	.036	.021	.017	.012	.007	
5.0	.148	.090	.048	.127	.078	.042	.088	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.141	.082	.040	.121	.071	.034	.084	.050	.024	.049	.029	.015	.016	.010	.005	
7.0	.135	.075	.034	.116	.065	.029	.080	.046	.021	.046	.027	.012	.015	.009	.004	
8.0	.128	.069	.029	.110	.060	.025	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.122	.064	.025	.105	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.023	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:chen xue chang
 Test Date:2022-03-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity:65.0%
 Test Distance:7.300m [K=1.0000]
 Remarks:

Uncorrected UGR Table

NAME: LED High Bay					TYPE:					WEIGHT:				
DIM.: $\phi 280 \times H114$					SPEC.:					SERIAL No.:				
MFR.:					SUR.: $\phi 0.28$					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					28.2	29.7	28.4	29.9	30.1	28.1	29.5	28.3	29.8	30.0
3H					29.5	30.8	29.8	31.1	31.3	29.3	30.7	29.6	30.9	31.1
4H					29.8	31.2	30.2	31.4	31.7	29.6	30.9	29.9	31.2	31.4
6H					29.9	31.2	30.3	31.4	31.7	29.7	30.9	30.0	31.2	31.5
8H					29.9	31.1	30.3	31.4	31.7	29.7	30.9	30.0	31.1	31.4
12H					29.9	31.0	30.2	31.3	31.6	29.6	30.8	30.0	31.1	31.4
4H 2H					28.7	30.0	29.0	30.3	30.5	28.6	29.9	28.9	30.2	30.4
3H					30.2	31.3	30.5	31.6	31.9	30.0	31.2	30.4	31.4	31.8
4H					30.6	31.7	31.0	32.0	32.3	30.4	31.5	30.8	31.8	32.1
6H					30.8	31.7	31.2	32.1	32.4	30.6	31.5	31.0	31.8	32.2
8H					30.8	31.6	31.2	32.0	32.4	30.6	31.4	31.0	31.8	32.2
12H					30.8	31.5	31.2	31.9	32.3	30.5	31.3	30.9	31.7	32.1
8H 4H					30.7	31.6	31.2	32.0	32.3	30.6	31.4	31.0	31.8	32.2
6H					31.0	31.7	31.4	32.1	32.5	30.7	31.4	31.2	31.9	32.3
8H					31.0	31.6	31.4	32.0	32.5	30.8	31.4	31.2	31.8	32.2
12H					31.0	31.5	31.4	31.9	32.4	30.7	31.3	31.2	31.7	32.2
12H 4H					30.7	31.5	31.1	31.9	32.3	30.5	31.3	31.0	31.7	32.1
6H					30.9	31.6	31.4	32.0	32.4	30.7	31.4	31.2	31.8	32.2
8H					31.0	31.5	31.4	31.9	32.4	30.7	31.3	31.2	31.7	32.2
Variations with the observer position at spacings:														
S = 1.0H					+ 0.2 / - 0.3					+ 0.2 / - 0.3				
1.5H					+ 0.3 / - 0.4					+ 0.3 / - 0.5				
2.0H					+ 0.3 / - 0.3					+ 0.3 / - 0.4				

CIE Pub.117 Corrected 14265 lm Total Lamp Luminous Flux. (8log(F/F0) = 9.2)

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-03-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 7.300m [K=1.0000]
Remarks:

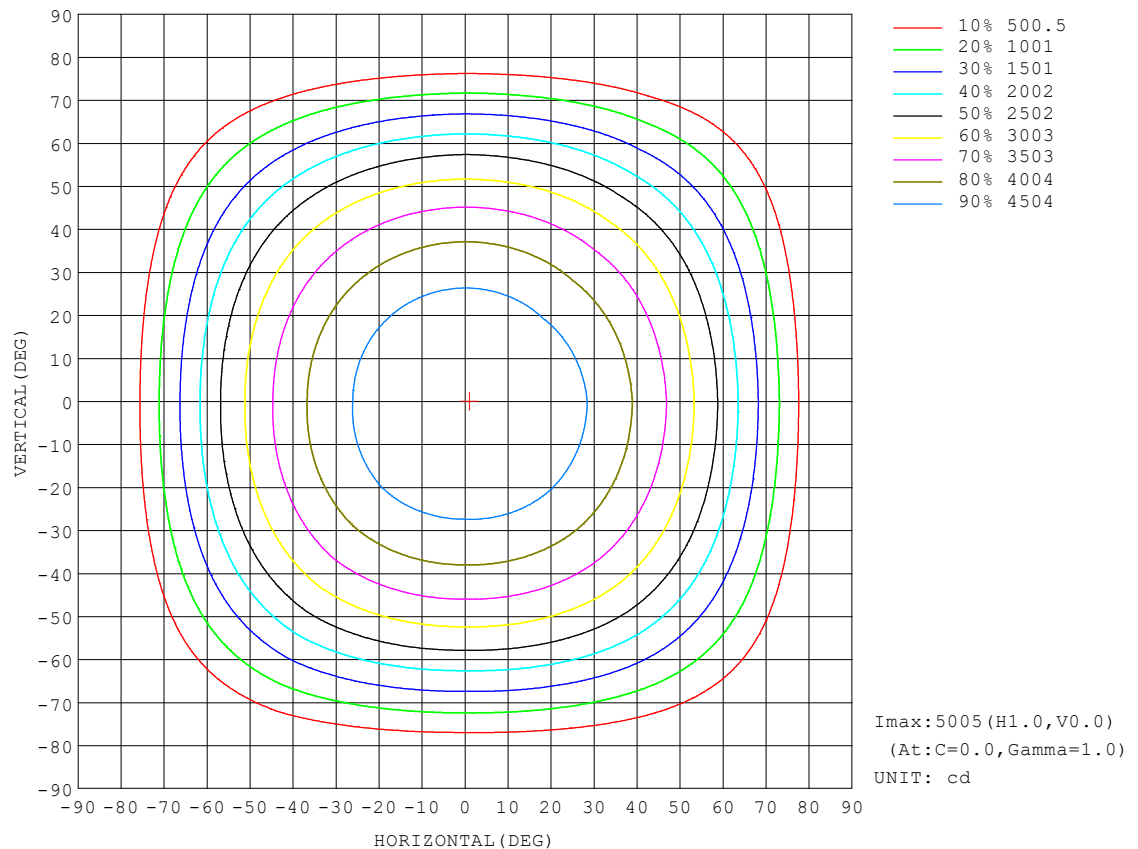
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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.300m [K=1.0000]
Remarks:

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ISOCANDELA DIAGRAM

NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\phi 280 \times H114$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\phi 0.28$	PROTECTION ANGLE:

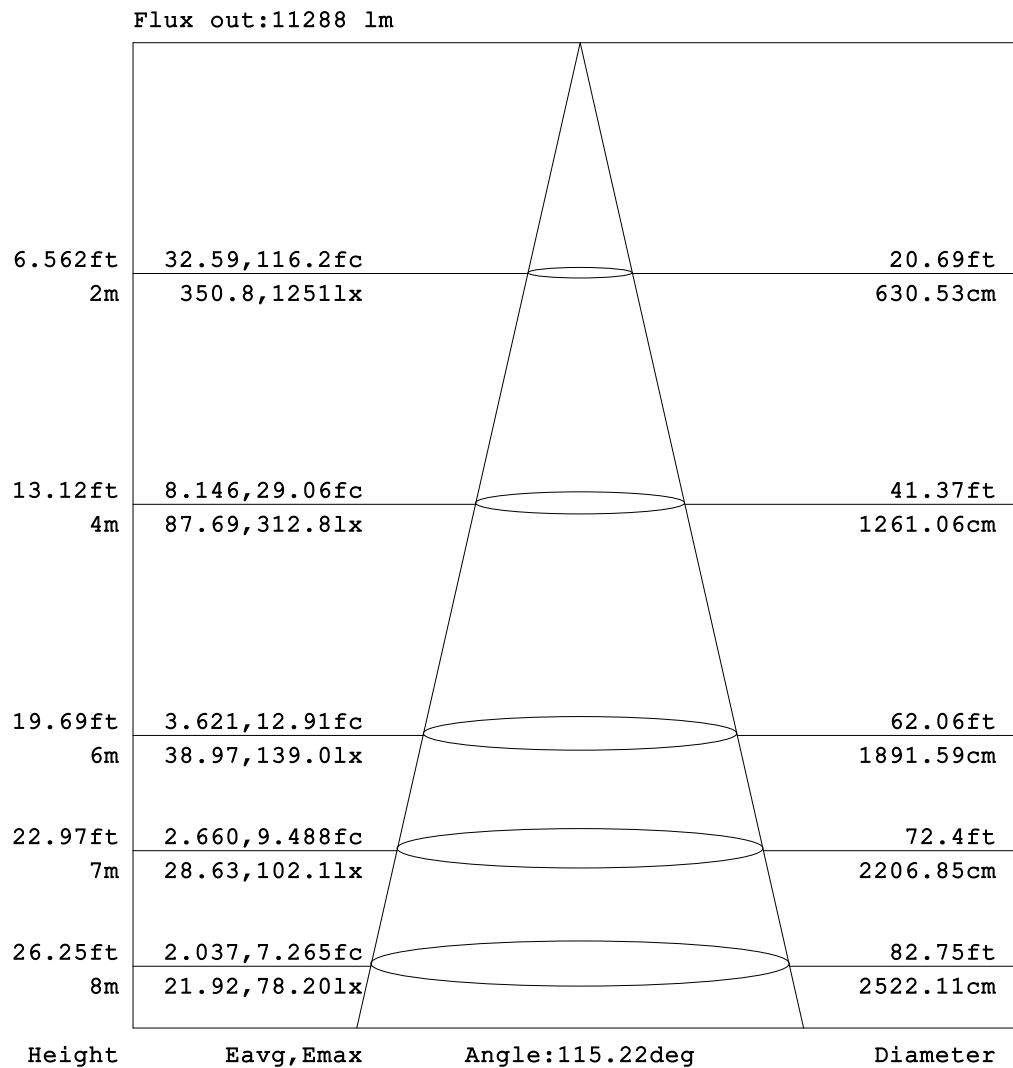


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-03-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 7.300m [K=1.0000]
Remarks:

AAI Figure

NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\phi 280 \times H114$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\phi 0.28$	PROTECTION ANGLE:



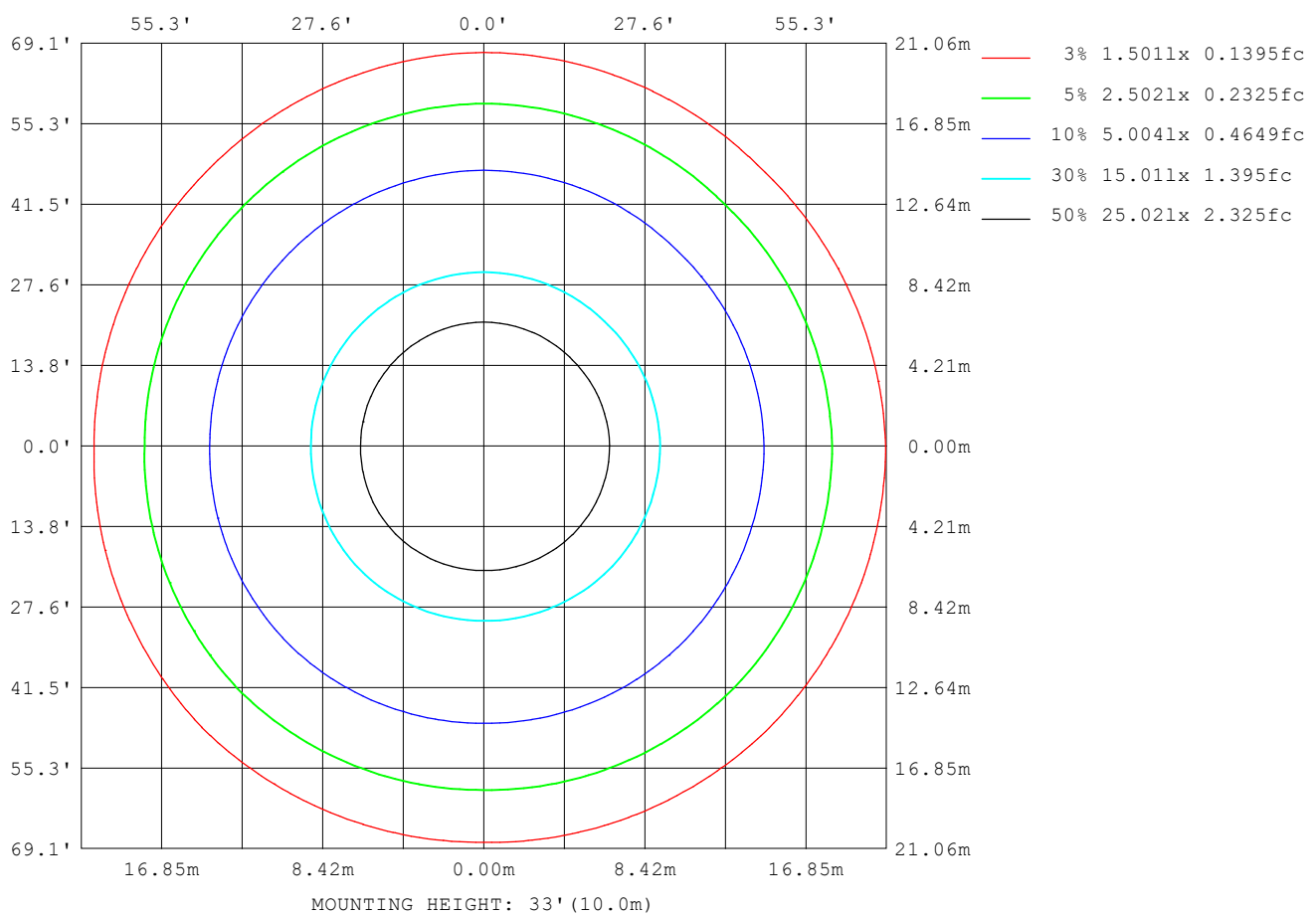
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-03-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 7.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

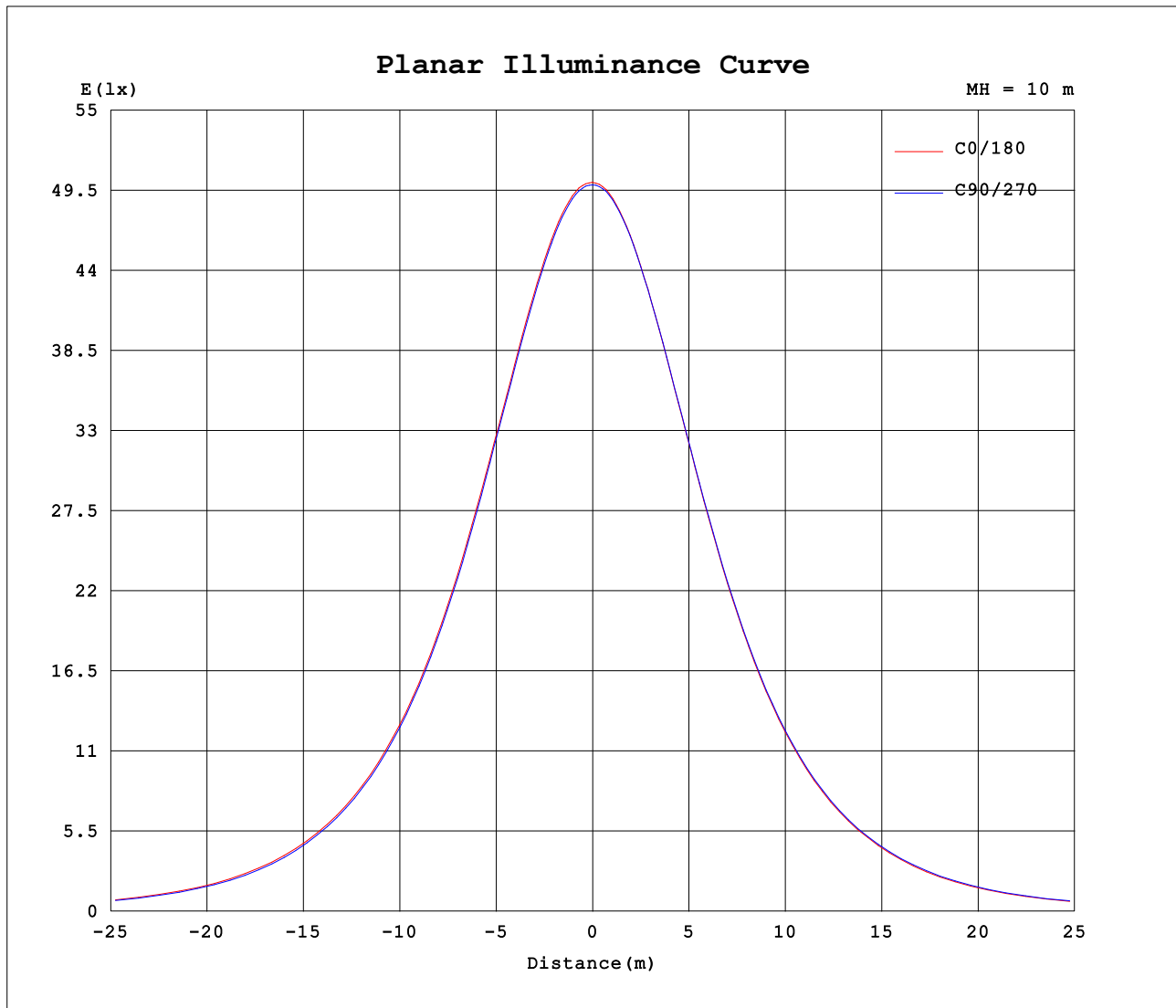
NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\phi 280 \times H114$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\phi 0.28$	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
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 Test Date: 2022-03-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity: 65.0%
 Test Distance: 7.300m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
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Test Date: 2022-03-28

γ Range: 0 - 90DEG
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Remarks:

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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.300m [K=1.0000]
Remarks:

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