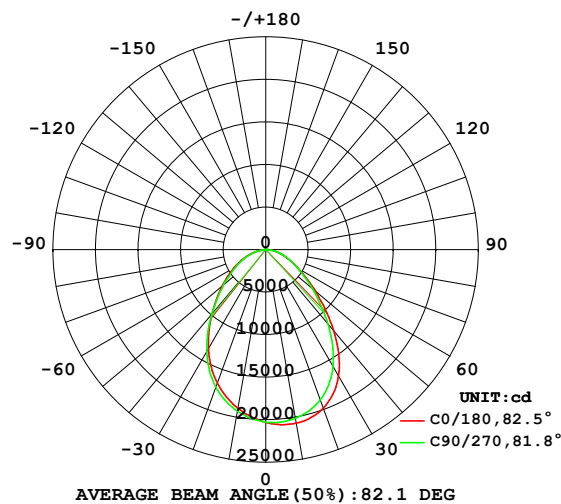


LUMINAIRE PHOTOMETRIC TEST REPORT

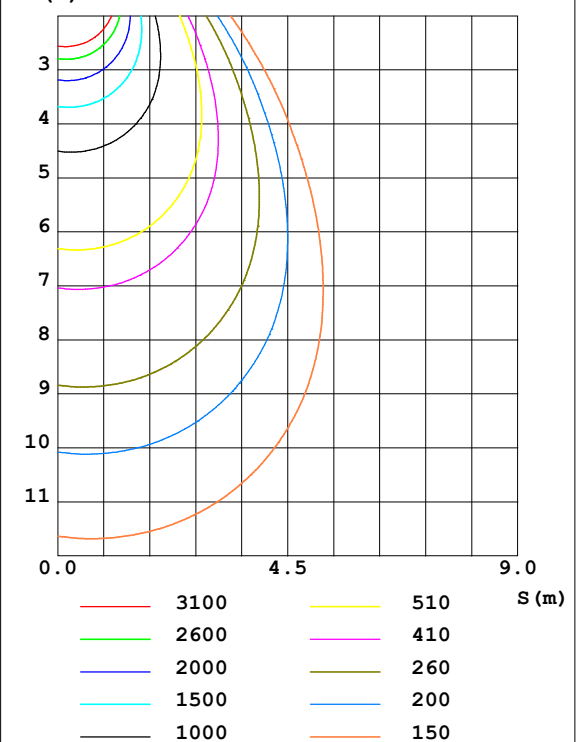
NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\varnothing 400 \times H170\text{mm}$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\varphi 0.4$	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 169.00 lm/W
MODEL	UFO240W-90D	Imax (cd)	20734	S/MH (C0/180)	1.24	
NOMINAL POWER (W)	238	LOR (%)	100.0	S/MH (C90/270)	1.17	
RATED VOLTAGE (V)	236	TOTAL FLUX (lm)	40222	η UP, DN (C0-180)	0.0, 53.3	
NOMINAL FLUX (lm)	40221.6	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 46.7	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.00	
TEST VOLTAGE (V)	235.0	η down (%)	100.0	CIBSE SHR MAX	1.15	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-04-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 7.500m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	2073	2013	1893	1927					0- 10	1912	1912	4.75,4.75
20	1982	1878	1670	1718					10- 20	5373	7285	18.1,18.1
30	1713	1583	1349	1387					20- 30	7698	14983	37.3,37.3
40	1243	1138	981.5	986.3					30- 40	8127	23110	57.5,57.5
50	768.9	719.4	672.7	648.6					40- 50	6806	29916	74.4,74.4
60	439.6	432.2	435.5	406.2					50- 60	4956	34872	86.7,86.7
70	243.8	250.4	247.5	231.0					60- 70	3273	38145	94.8,94.8
80	100.4	99.95	69.40	72.78					70- 80	1729	39874	99.1,99.1
90	16.12	15.81	12.20	11.96					80- 90	347.5	40222	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:×10cd									UNIT:lm		

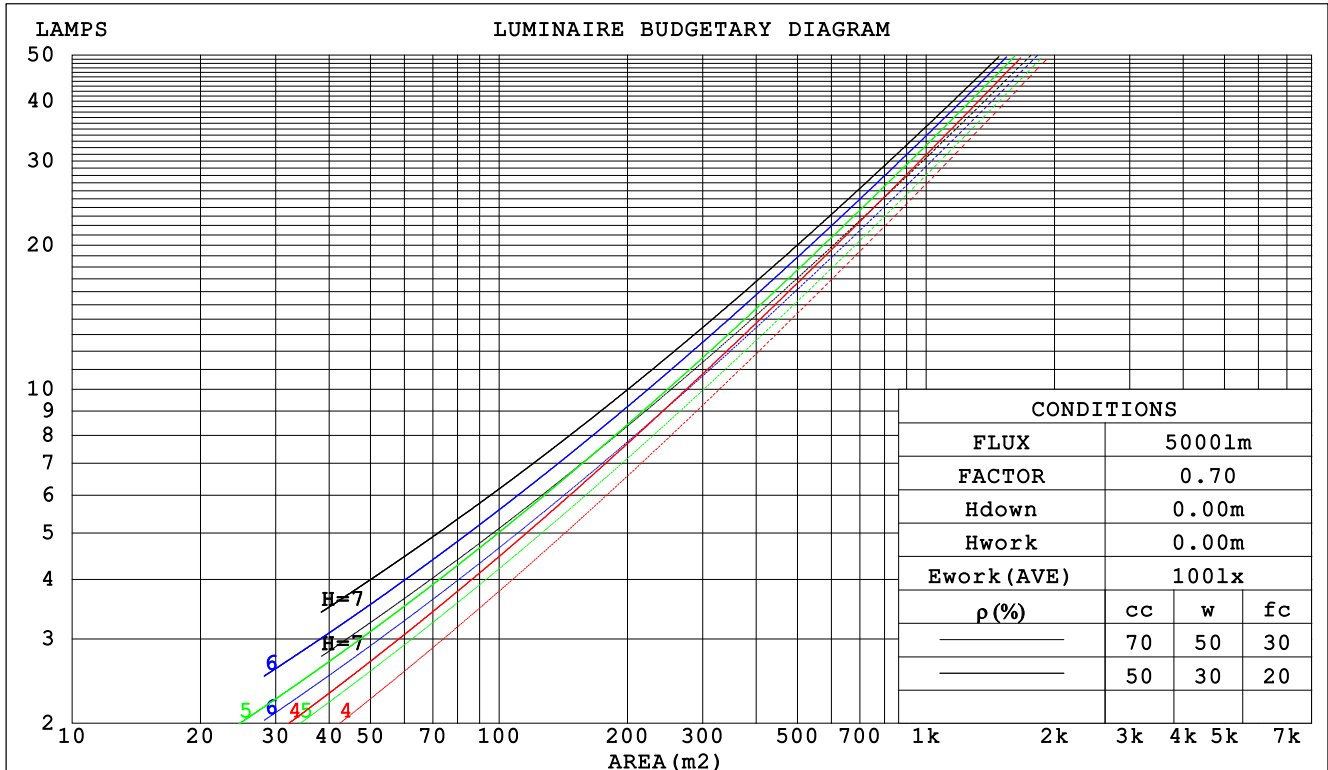
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:chen xue chang
 Test Date:2022-04-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\varnothing 400 \times H170\text{mm}$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\varphi 0.4$	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	1.06	1.03	.99	1.04	1.01	.98	.90	.97	.95	.96	.94	.92	.92	.91	.89	.87
2.0	.94	.88	.83	.93	.87	.82	.89	.85	.81	.86	.82	.79	.83	.80	.77	.75
3.0	.84	.77	.71	.83	.76	.71	.80	.74	.70	.77	.72	.68	.75	.71	.67	.65
4.0	.76	.68	.62	.75	.67	.62	.72	.66	.61	.70	.64	.60	.68	.63	.59	.57
5.0	.69	.61	.55	.68	.60	.54	.66	.59	.54	.64	.58	.53	.62	.57	.53	.51
6.0	.63	.54	.48	.62	.54	.48	.60	.53	.48	.58	.52	.47	.57	.51	.47	.45
7.0	.57	.49	.44	.56	.49	.43	.55	.48	.43	.54	.47	.43	.52	.47	.42	.41
8.0	.53	.45	.39	.52	.44	.39	.51	.44	.39	.50	.43	.39	.48	.43	.39	.37
9.0	.49	.41	.36	.48	.41	.36	.47	.40	.36	.46	.40	.35	.45	.39	.35	.34
10.0	.45	.38	.33	.45	.38	.33	.44	.37	.33	.43	.37	.33	.42	.36	.32	.31



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-04-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 7.500m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\varnothing 400 \times H170mm$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\varphi 0.4$	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	.265	.151	.048	.258	.147	.047	.245	.141	.045	.233	.134	.043	.222	.129	.041		
2.0	.254	.139	.043	.248	.136	.042	.236	.131	.041	.226	.127	.040	.216	.122	.039		
3.0	.238	.127	.038	.233	.125	.037	.223	.121	.037	.213	.117	.036	.205	.113	.035		
4.0	.222	.115	.034	.217	.114	.034	.209	.111	.033	.201	.108	.032	.193	.105	.032		
5.0	.207	.106	.031	.203	.104	.030	.196	.102	.030	.188	.099	.030	.182	.097	.029		
6.0	.194	.097	.028	.190	.096	.028	.184	.094	.027	.177	.092	.027	.171	.090	.027		
7.0	.182	.090	.026	.179	.089	.025	.173	.087	.025	.167	.086	.025	.161	.084	.025		
8.0	.171	.084	.024	.168	.083	.023	.163	.081	.023	.158	.080	.023	.153	.078	.023		
9.0	.161	.078	.022	.159	.077	.022	.154	.076	.022	.149	.075	.021	.145	.074	.021		
10.0	.153	.073	.020	.150	.073	.020	.146	.071	.020	.142	.070	.020	.138	.069	.020		

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	.177	.157	.138	.152	.134	.119	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.167	.132	.103	.143	.114	.089	.098	.079	.062	.057	.046	.036	.018	.015	.012	
3.0	.158	.114	.079	.136	.098	.068	.093	.068	.048	.054	.040	.028	.017	.013	.009	
4.0	.150	.100	.062	.129	.087	.054	.089	.060	.038	.051	.035	.023	.016	.012	.007	
5.0	.143	.090	.051	.123	.078	.044	.084	.054	.031	.049	.032	.018	.016	.010	.006	
6.0	.136	.081	.042	.117	.070	.037	.080	.049	.026	.047	.029	.015	.015	.009	.005	
7.0	.129	.074	.035	.111	.064	.031	.077	.045	.022	.045	.027	.013	.014	.009	.004	
8.0	.123	.068	.031	.106	.059	.027	.073	.042	.019	.043	.024	.011	.014	.008	.004	
9.0	.117	.063	.027	.101	.055	.023	.070	.039	.017	.041	.023	.010	.013	.007	.003	
10.0	.112	.059	.024	.097	.051	.021	.067	.036	.015	.039	.021	.009	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:chen xue chang
Test Date:2022-04-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

Uncorrected UGR Table

NAME: LED High Bay					TYPE:					WEIGHT:				
DIM.: $\varnothing 400 \times H170mm$					SPEC.:					SERIAL No.:				
MFR.:					SUR.: $\varphi 0.4$					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					27.7	29.1	28.0	29.3	29.5	27.5	28.9	27.8	29.1	29.3
3H					28.6	29.9	28.9	30.1	30.4	28.5	29.8	28.8	30.0	30.3
4H					29.0	30.2	29.3	30.5	30.7	29.0	30.2	29.3	30.4	30.7
6H					29.3	30.4	29.7	30.7	31.0	29.3	30.4	29.6	30.7	30.9
8H					29.4	30.5	29.7	30.7	31.0	29.3	30.4	29.7	30.7	31.0
12H					29.4	30.4	29.7	30.7	31.0	29.3	30.4	29.7	30.7	31.0
4H 2H					28.1	29.3	28.4	29.5	29.8	27.9	29.1	28.2	29.4	29.6
3H					29.2	30.2	29.5	30.5	30.8	29.1	30.2	29.5	30.5	30.8
4H					29.7	30.7	30.1	31.0	31.3	29.7	30.6	30.1	30.9	31.3
6H					30.1	31.0	30.5	31.3	31.7	30.1	31.0	30.5	31.3	31.7
8H					30.3	31.0	30.7	31.4	31.8	30.2	31.0	30.6	31.4	31.7
12H					30.3	31.0	30.7	31.4	31.8	30.2	31.0	30.7	31.3	31.7
8H 4H					29.9	30.7	30.3	31.0	31.4	29.9	30.7	30.3	31.0	31.4
6H					30.5	31.1	30.9	31.5	31.9	30.4	31.1	30.9	31.5	31.9
8H					30.6	31.2	31.1	31.6	32.0	30.6	31.1	31.0	31.6	32.0
12H					30.7	31.2	31.1	31.6	32.1	30.6	31.1	31.1	31.6	32.0
12H 4H					29.9	30.6	30.3	31.0	31.4	29.9	30.6	30.3	31.0	31.4
6H					30.5	31.0	30.9	31.5	31.9	30.5	31.0	30.9	31.4	31.9
8H					30.7	31.1	31.1	31.6	32.1	30.6	31.1	31.1	31.6	32.0
Variations with the observer position at spacings:														
S = 1.0H					+ 0.3 / - 0.4					+ 0.4 / - 0.4				
1.5H					+ 0.2 / - 0.2					+ 0.1 / - 0.3				
2.0H					+ 0.7 / - 0.6					+ 0.6 / - 0.5				

CIE Pub.117 Corrected 40222 lm Total Lamp Luminous Flux. (8log(F/F0) = 12.8)

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-04-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 7.500m [K=1.0000]
Remarks:

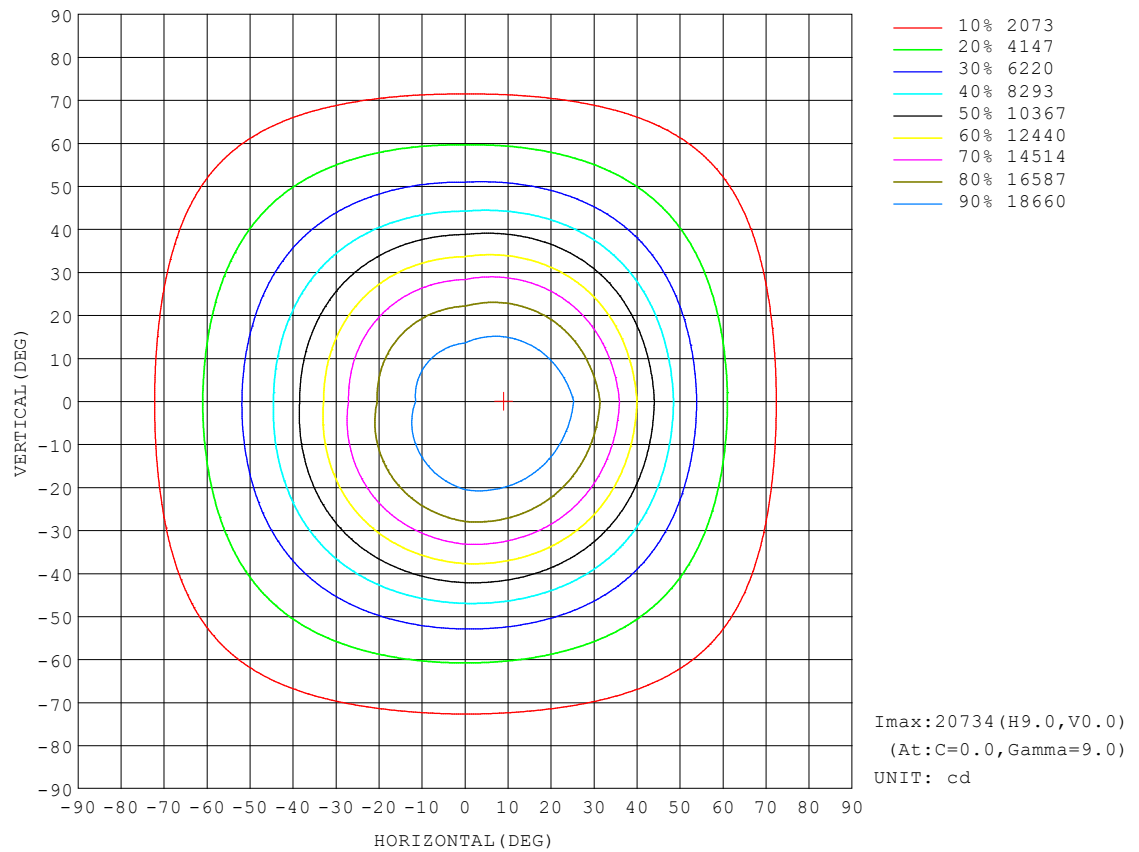
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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

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ISOCANDELA DIAGRAM

NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\phi 400 \times H170\text{mm}$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\phi 0.4$	PROTECTION ANGLE:

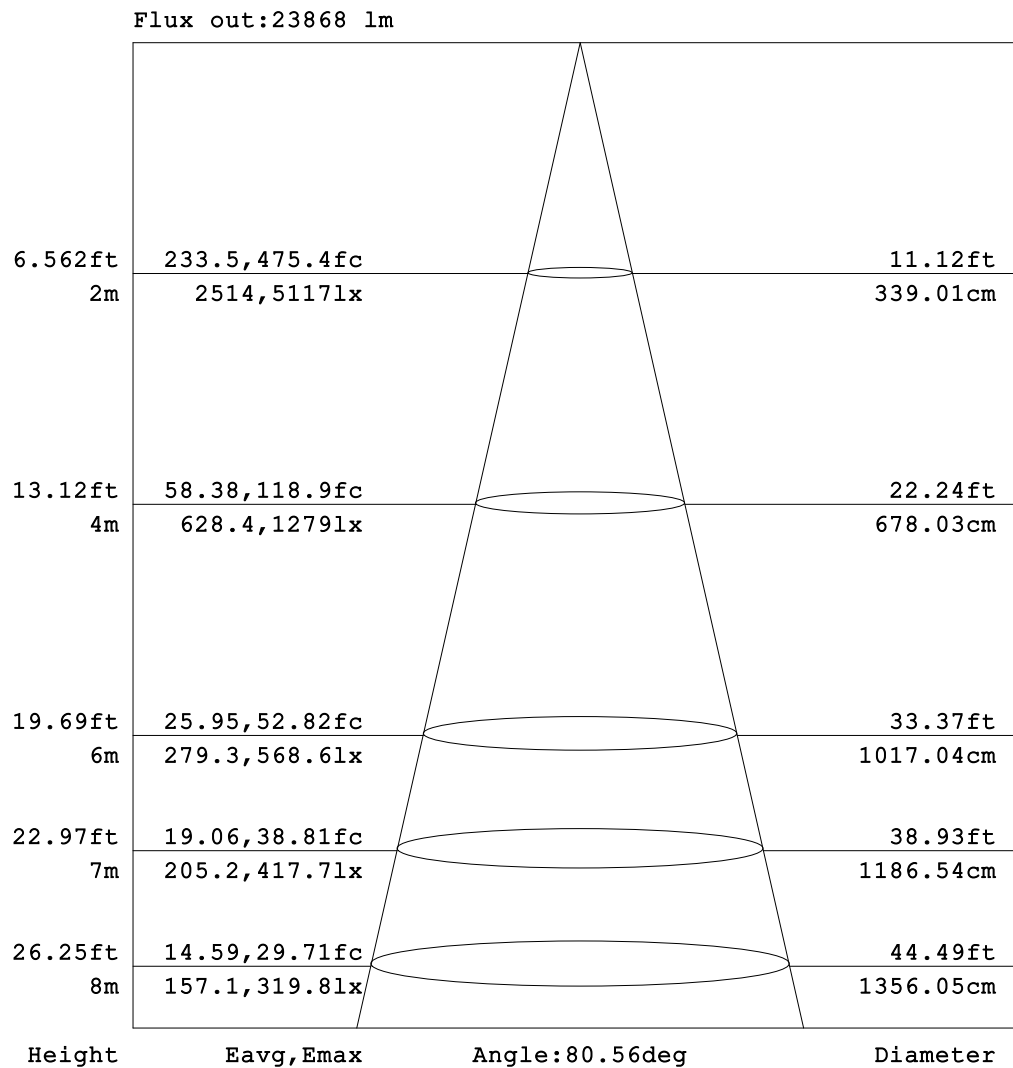


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-04-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 7.500m [K=1.0000]
Remarks:

AAI Figure

NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\phi 400 \times H170\text{mm}$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\phi 0.4$	PROTECTION ANGLE:



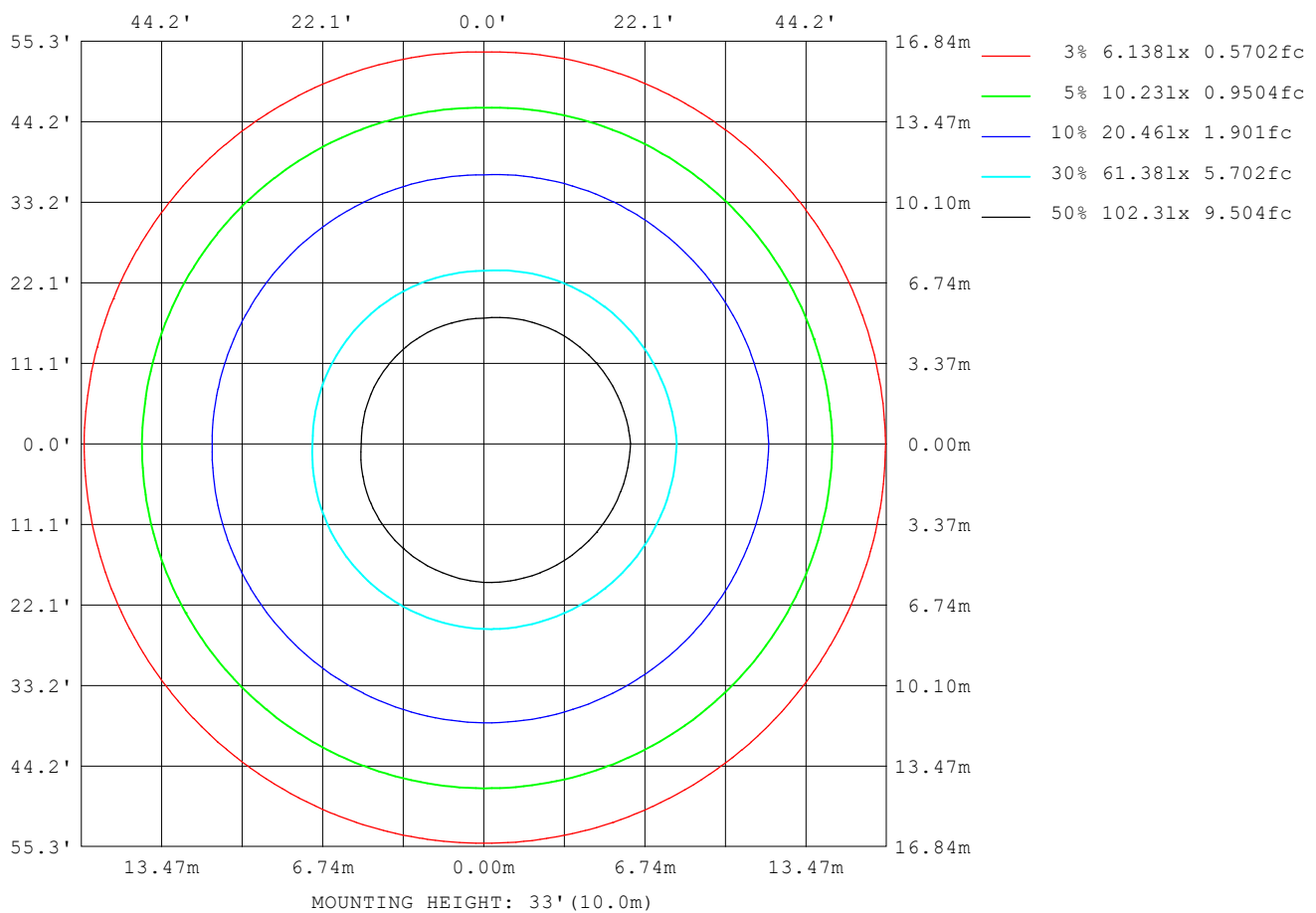
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-04-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 7.500m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

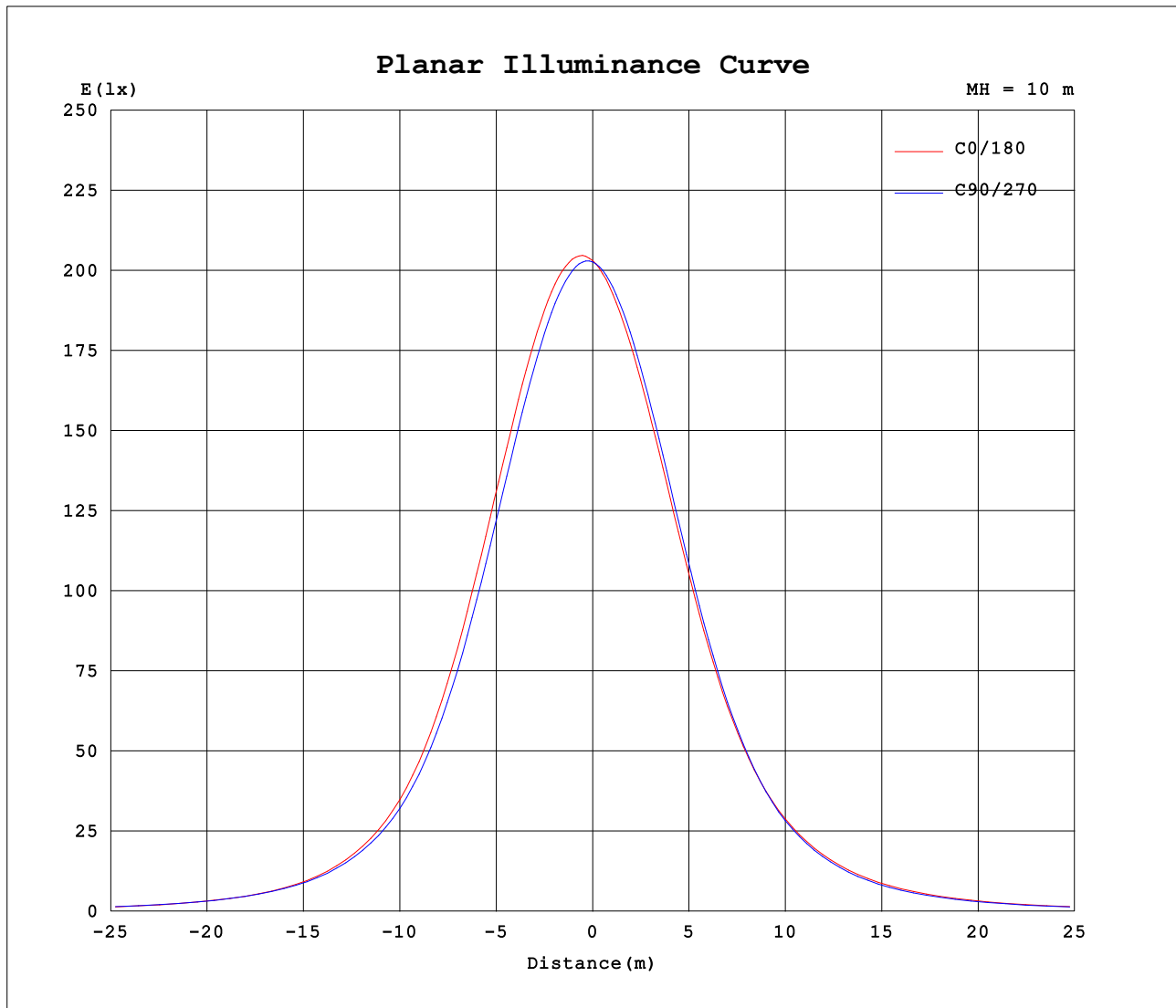
NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\phi 400 \times H170\text{mm}$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\phi 0.4$	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: chen xue chang
 Test Date: 2022-04-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity: 65.0%
 Test Distance: 7.500m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-04-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 7.500m [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:7.500m [K=1.0000]
Remarks:

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