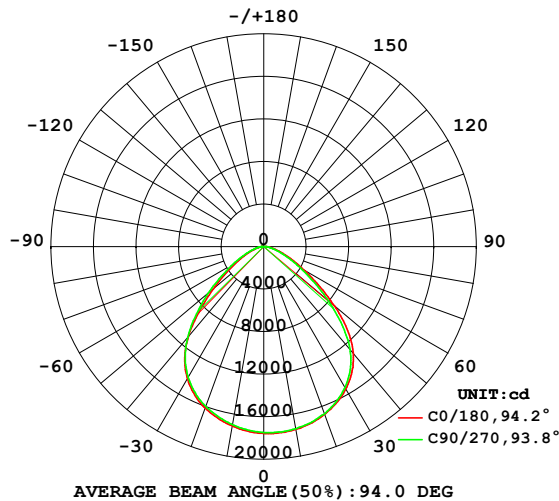


LUMINAIRE PHOTOMETRIC TEST REPORT

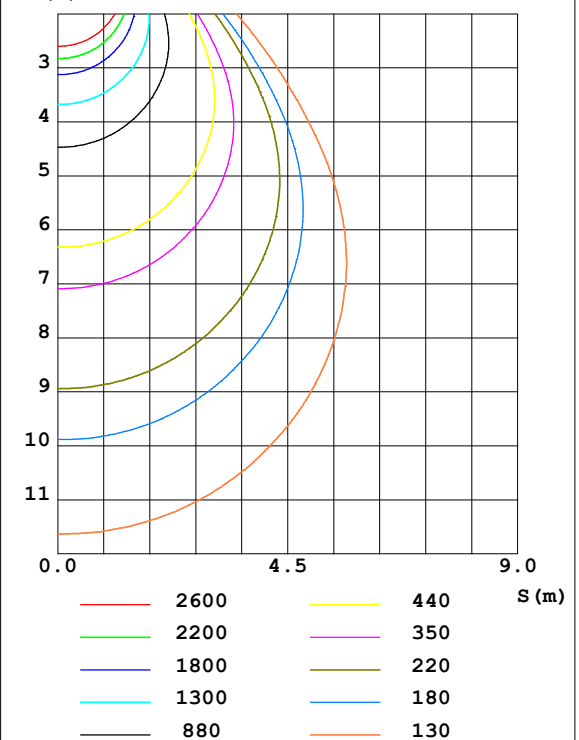
NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\Phi 350 \times H170MM$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\Phi 0.35$	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 191.85 lm/W
MODEL	UFO200W-90D	Imax(cd)	17596	S/MH(C0/180)	1.30	
NOMINAL POWER(W)	199.1	LOR(%)	100.0	S/MH(C90/270)	1.29	
RATED VOLTAGE(V)	228	TOTAL FLUX(lm)	38196	η UP,DN(C0-180)	0.0,52.6	
NOMINAL FLUX(lm)	38196.4	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,47.4	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	227.4	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: MEDIUM
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-03-29

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 5.940m [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
5	1757	1758	1750	1738	1742	1732	1730	1732	0- 5	417.5	417.5	1.09,1.09
10	1745	1750	1738	1715	1712	1699	1699	1711	5- 10	1239	1657	4.34,4.34
15	1719	1727	1713	1684	1671	1652	1655	1675	10- 15	2022	3678	9.63,9.63
20	1679	1692	1672	1634	1616	1588	1599	1625	15- 20	2740	6418	16.8,16.8
25	1622	1639	1612	1569	1538	1506	1522	1557	20- 25	3366	9784	25.6,25.6
30	1545	1571	1529	1471	1435	1398	1420	1468	25- 30	3863	13647	35.7,35.7
35	1446	1472	1417	1344	1297	1256	1289	1355	30- 35	4186	17834	46.7,46.7
40	1310	1336	1264	1162	1102	1065	1112	1200	35- 40	4270	22104	57.9,57.9
45	1117	1143	1042	912.8	852.2	825.8	895.0	993.1	40- 45	4019	26123	68.4,68.4
50	868.9	880.3	793.6	667.9	619.2	611.2	681.7	763.7	45- 50	3445	29567	77.4,77.4
55	626.2	630.6	567.0	470.6	429.1	427.2	486.1	557.3	50- 55	2718	32286	84.5,84.5
60	433.2	430.9	390.6	322.1	293.7	296.5	335.7	389.7	55- 60	2023	34309	89.8,89.8
65	293.3	292.2	260.8	214.9	196.5	200.1	225.2	266.0	60- 65	1453	35762	93.6,93.6
70	193.0	192.4	168.8	138.6	127.6	129.7	148.9	178.7	65- 70	1009	36771	96.3,96.3
75	121.7	121.0	103.2	82.43	78.98	80.15	93.44	114.8	70- 75	667.8	37439	98,98
80	71.83	69.77	59.34	45.29	48.42	49.77	58.66	72.38	75- 80	417.2	37856	99.1,99.1
85	38.81	36.32	26.40	12.25	20.81	21.57	28.25	41.41	80- 85	235.2	38091	99.7,99.7
90	7.569	6.970	4.369	4.745	22.69	23.00	21.82	19.63	85- 90	105.1	38196	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

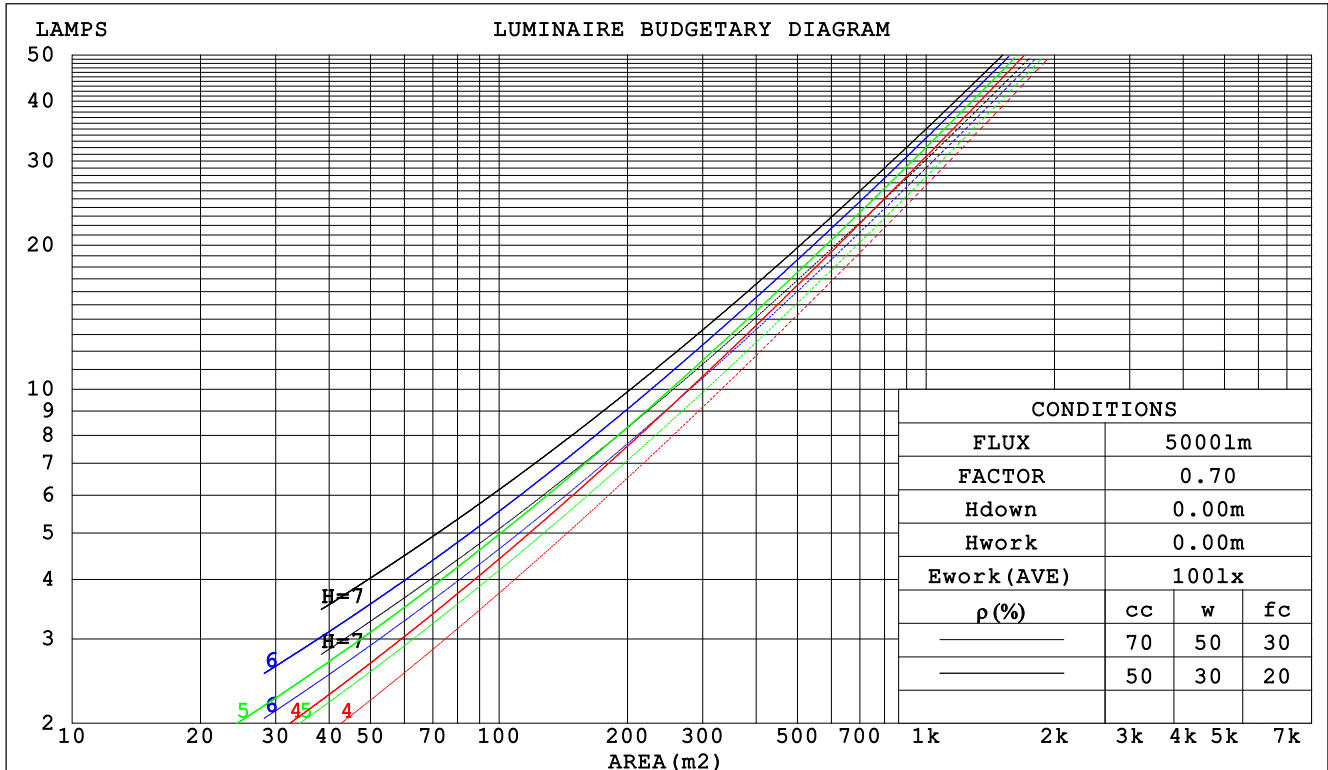
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:chen xue chang
 Test Date:2022-03-29

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity:65.0%
 Test Distance:5.940m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\Phi 350 \times H170MM$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\Phi 0.35$	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	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	1.02	1.02	1.02	.00
1.0	1.07	1.03	.00	1.04	1.01	.98	1.00	.98	.95	.96	.94	.92	.93	.91	.90	.88
2.0	.95	.89	.84	.93	.88	.83	.90	.85	.82	.87	.83	.80	.84	.81	.78	.76
3.0	.85	.78	.72	.84	.77	.72	.81	.75	.71	.78	.73	.69	.76	.72	.68	.66
4.0	.77	.69	.63	.75	.68	.62	.73	.67	.62	.71	.65	.61	.69	.64	.60	.58
5.0	.69	.61	.55	.68	.61	.55	.66	.59	.54	.64	.58	.54	.62	.57	.53	.51
6.0	.63	.55	.49	.62	.54	.49	.60	.53	.48	.59	.53	.48	.57	.52	.48	.46
7.0	.57	.49	.44	.57	.49	.44	.55	.48	.43	.54	.48	.43	.53	.47	.43	.41
8.0	.53	.45	.39	.52	.45	.39	.51	.44	.39	.50	.43	.39	.48	.43	.39	.37
9.0	.49	.41	.36	.48	.41	.36	.47	.40	.35	.46	.40	.35	.45	.39	.35	.33
10.0	.45	.38	.33	.44	.37	.33	.44	.37	.32	.43	.37	.32	.42	.36	.32	.31



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: chen xue chang
 Test Date: 2022-03-29

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity: 65.0%
 Test Distance: 5.940m [K=1.0000]
 Remarks:

WEC AND CCEC

NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: Φ 350*H170MM	SPEC.:	SERIAL No.:
MFR.:	SUR.: Φ 0.35	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	.257 .146 .046	.250 .142 .045	.237 .136 .043	.225 .130 .042	.214 .124 .040	
2.0	.247 .135 .041	.241 .133 .041	.229 .127 .040	.219 .123 .038	.209 .118 .037	
3.0	.233 .124 .037	.228 .122 .037	.218 .118 .036	.209 .114 .035	.200 .111 .034	
4.0	.219 .114 .033	.214 .112 .033	.205 .109 .033	.197 .106 .032	.190 .103 .031	
5.0	.205 .105 .030	.201 .103 .030	.193 .101 .030	.186 .098 .029	.180 .096 .029	
6.0	.193 .097 .028	.189 .096 .028	.182 .093 .027	.176 .091 .027	.170 .089 .027	
7.0	.182 .090 .025	.178 .089 .025	.172 .087 .025	.166 .085 .025	.161 .084 .025	
8.0	.171 .084 .024	.168 .083 .023	.163 .081 .023	.157 .080 .023	.153 .078 .023	
9.0	.162 .078 .022	.159 .078 .022	.154 .076 .022	.149 .075 .021	.145 .074 .021	
10.0	.153 .073 .020	.151 .073 .020	.146 .072 .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 .139	.151 .134 .119	.103 .092 .082	.059 .054 .048	.019 .017 .016	
2.0	.166 .132 .103	.142 .114 .089	.098 .079 .062	.056 .046 .037	.018 .015 .012	
3.0	.157 .114 .080	.135 .098 .069	.093 .068 .048	.053 .040 .029	.017 .013 .009	
4.0	.149 .100 .063	.128 .087 .055	.088 .060 .038	.051 .035 .023	.016 .012 .007	
5.0	.142 .090 .051	.122 .078 .044	.084 .054 .031	.049 .032 .019	.016 .010 .006	
6.0	.135 .081 .042	.116 .070 .037	.080 .049 .026	.047 .029 .015	.015 .009 .005	
7.0	.129 .074 .036	.111 .064 .031	.077 .045 .022	.045 .026 .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: 45.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: chen xue chang
 Test Date: 2022-03-29

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity: 65.0%
 Test Distance: 5.940m [K=1.0000]
 Remarks:

Uncorrected UGR Table

NAME: LED High Bay					TYPE:					WEIGHT:				
DIM.: $\Phi 350 \times H170MM$					SPEC.:					SERIAL No.:				
MFR.:					SUR.: $\Phi 0.35$					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	2H	29.3	30.6	29.5	30.8	31.0	29.0	30.3	29.2	30.5	30.7			
	3H	29.8	31.0	30.1	31.3	31.5	29.4	30.7	29.7	30.9	31.1			
	4H	30.0	31.1	30.3	31.4	31.6	29.5	30.7	29.8	31.0	31.2			
	6H	30.1	31.2	30.4	31.4	31.7	29.6	30.7	29.9	31.0	31.3			
	8H	30.1	31.2	30.4	31.4	31.7	29.6	30.7	30.0	31.0	31.3			
	12H	30.1	31.1	30.5	31.4	31.7	29.6	30.7	30.0	30.9	31.2			
4H	2H	29.5	30.7	29.8	30.9	31.1	29.2	30.4	29.5	30.6	30.9			
	3H	30.1	31.2	30.5	31.4	31.7	29.8	30.8	30.2	31.1	31.4			
	4H	30.4	31.3	30.8	31.6	32.0	30.0	31.0	30.4	31.3	31.6			
	6H	30.6	31.4	31.0	31.8	32.1	30.2	31.0	30.6	31.3	31.7			
	8H	30.7	31.4	31.1	31.8	32.2	30.2	31.0	30.6	31.4	31.7			
	12H	30.7	31.4	31.2	31.8	32.2	30.3	31.0	30.7	31.3	31.7			
8H	4H	30.4	31.2	30.9	31.6	31.9	30.1	30.9	30.5	31.2	31.6			
	6H	30.7	31.4	31.2	31.8	32.2	30.3	31.0	30.8	31.4	31.8			
	8H	30.9	31.4	31.3	31.8	32.3	30.5	31.0	30.9	31.4	31.9			
	12H	31.0	31.5	31.5	31.9	32.4	30.5	31.0	31.0	31.5	31.9			
12H	4H	30.4	31.1	30.8	31.5	31.9	30.1	30.8	30.5	31.2	31.6			
	6H	30.7	31.3	31.2	31.7	32.2	30.4	30.9	30.8	31.3	31.8			
	8H	30.9	31.4	31.4	31.8	32.3	30.5	31.0	31.0	31.4	31.9			
Variations with the observer position at spacings:														
S = 1.0H		+ 0.6 / - 0.7					+ 0.7 / - 0.8							
1.5H		+ 0.3 / - 0.3					+ 0.3 / - 0.4							
2.0H		+ 1.3 / - 1.2					+ 1.3 / - 1.2							

CIE Pub.117 Corrected 38196 lm Total Lamp Luminous Flux. (8log(F/F0) = 12.7)

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-03-29

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 5.940m [K=1.0000]
Remarks:

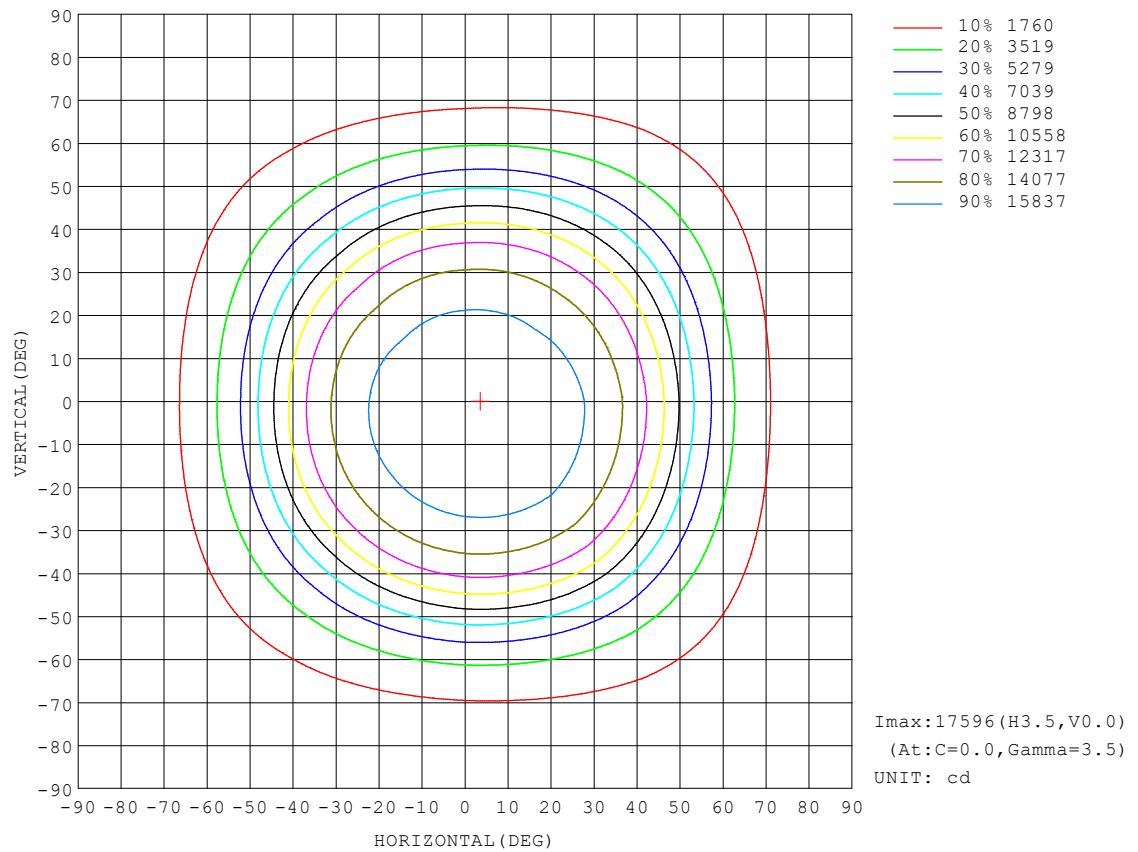
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γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:5.940m [K=1.0000]
Remarks:

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ISOCANDELA DIAGRAM

NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\Phi 350 \times H170MM$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\Phi 0.35$	PROTECTION ANGLE:

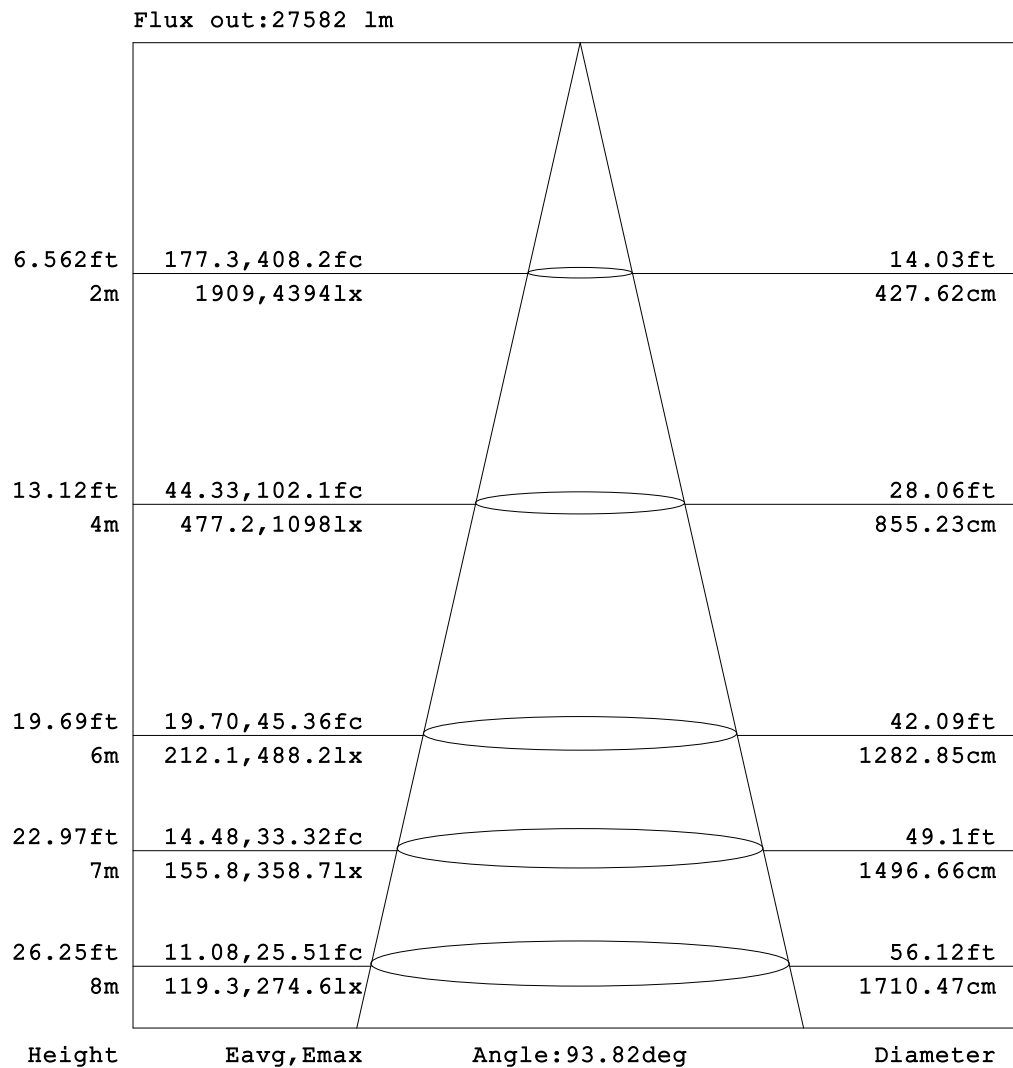


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-03-29

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 5.940m [K=1.0000]
Remarks:

AAI Figure

NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: Φ 350*H170MM	SPEC.:	SERIAL No.:
MFR.:	SUR.: Φ 0.35	PROTECTION ANGLE:



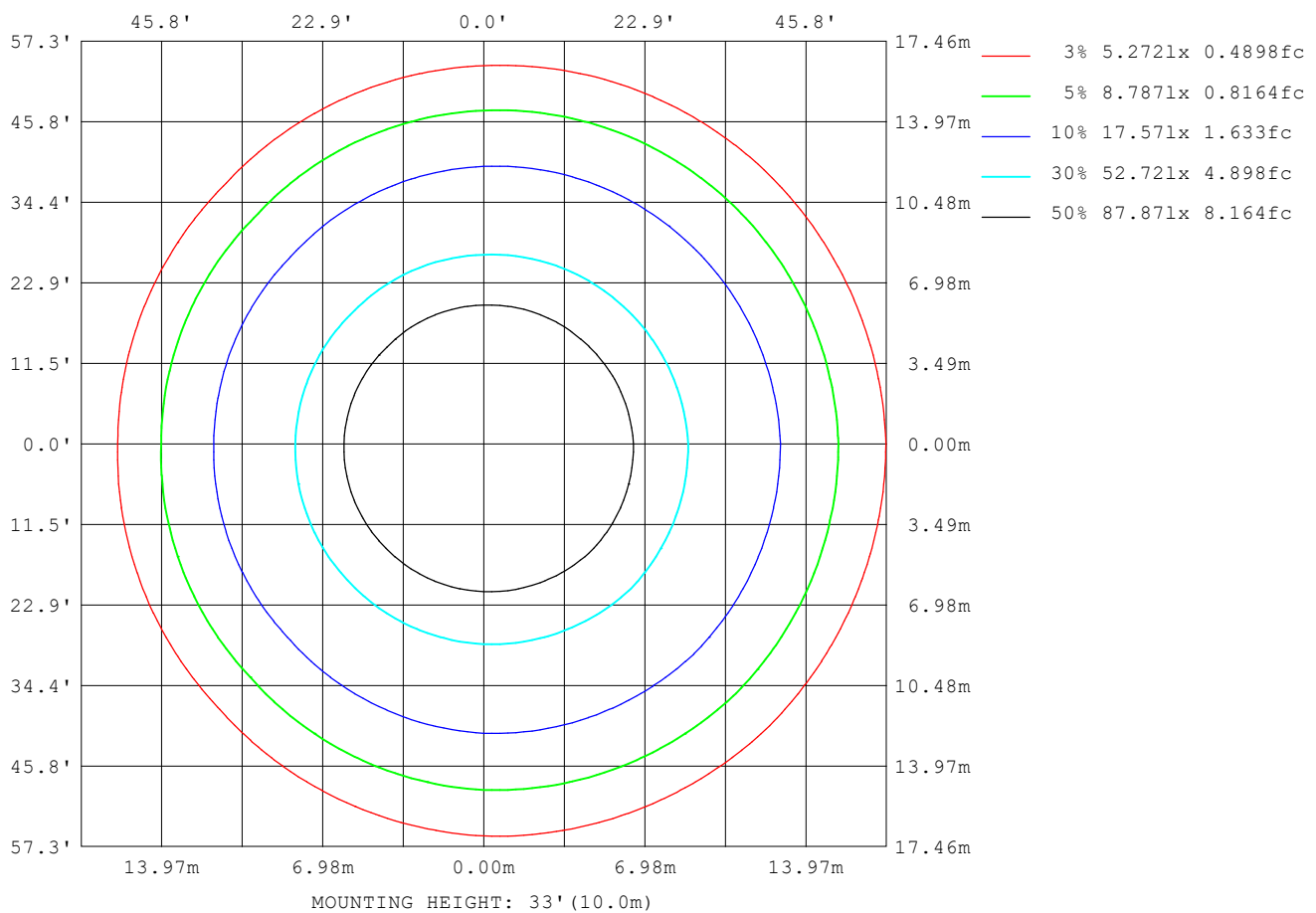
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-03-29

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 5.940m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

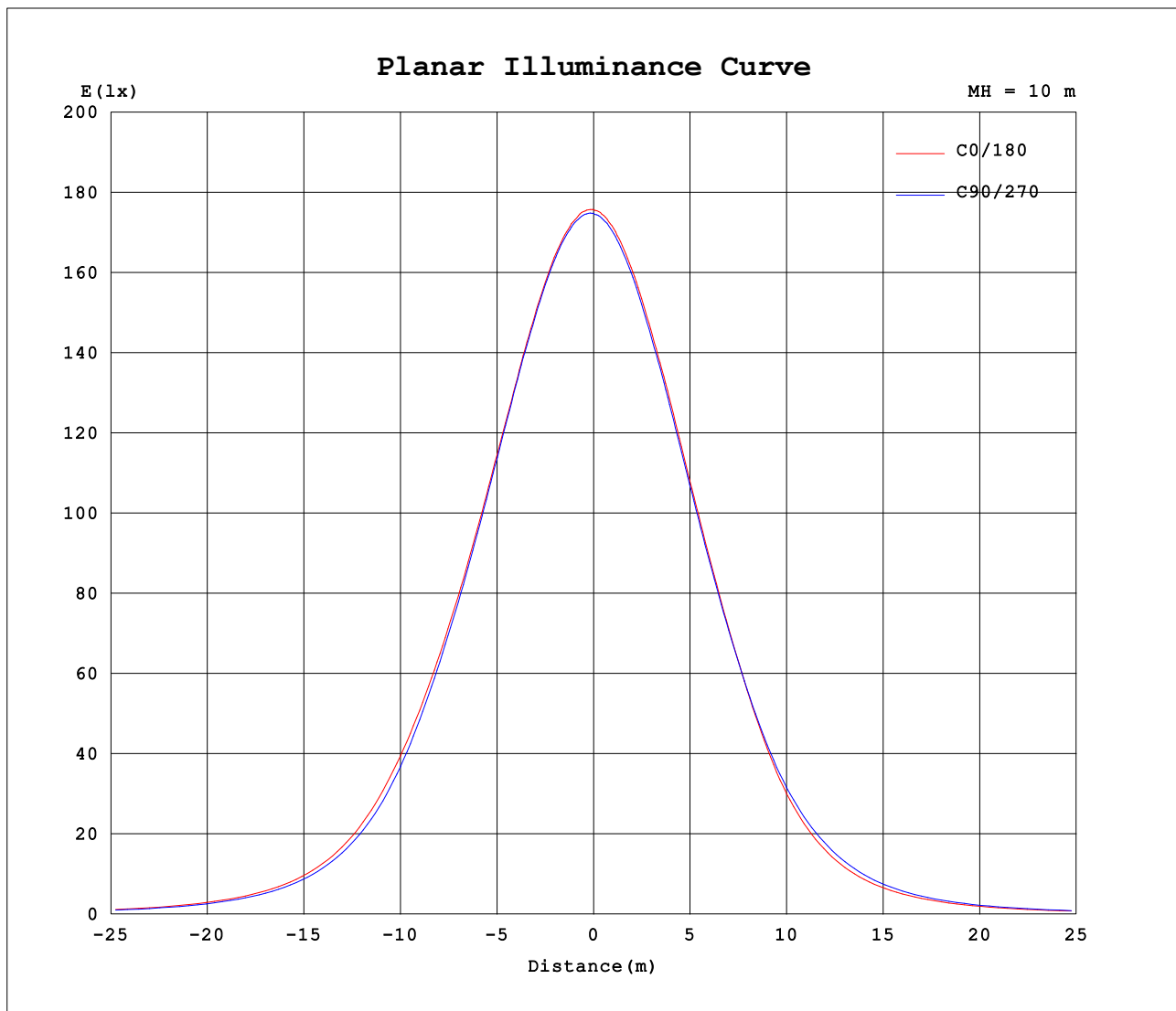
NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\Phi 350 \times H170MM$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\Phi 0.35$	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
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γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 5.940m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-03-29

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 5.940m [K=1.0000]
Remarks:

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γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:5.940m [K=1.0000]
Remarks:

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