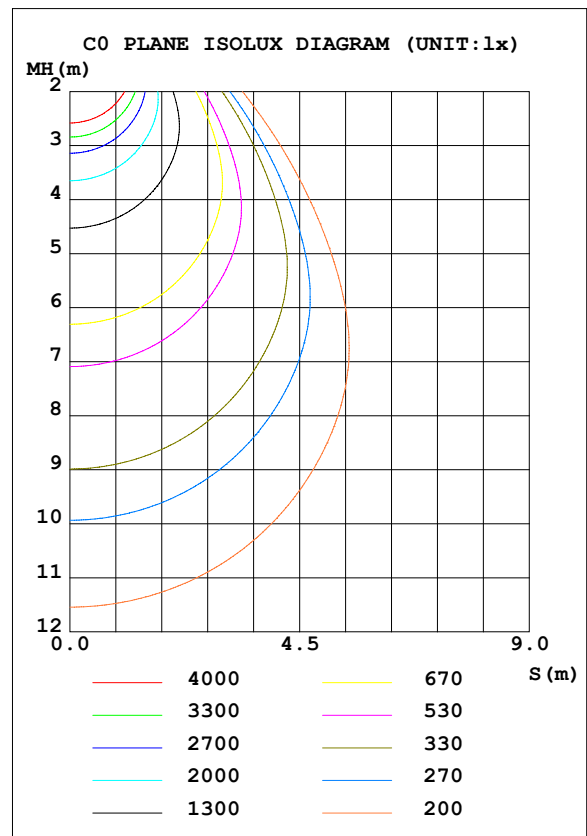
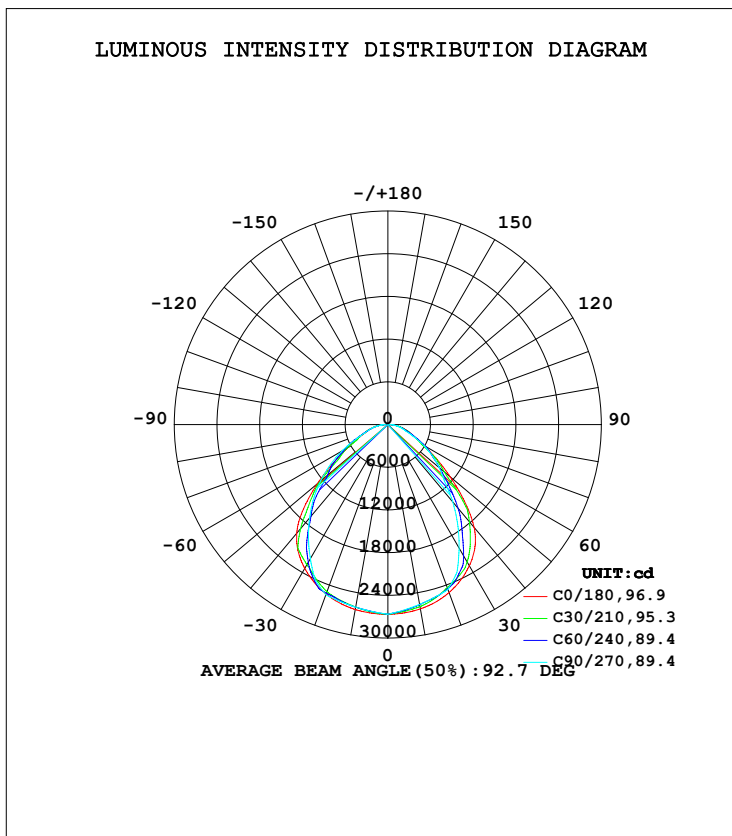


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.76V I:3.2401A P:387.77W PF:0.9993 Freq:59.98Hz Lamp Flux:59481x1 lm		
NAME: LHBD4-50K400		
MFR.:		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 153.39 lm/W			
MODEL		Imax (cd)	26648	S/MH (C0/180)	1.30
NOMINAL POWER (W)	400	LOR (%)	100.0	S/MH (C90/270)	1.21
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	59481	η UP, DN (C0-180)	0.0, 47.8
NOMINAL FLUX (lm)	59481	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 52.2
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	η down (%)	100.0	CIBSE SHR MAX	1.30



H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:FQC
Test Date:2023-07-22

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:GO-2000A_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:6.150m [K=1.0407]
Remarks:



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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lamp
10	2630	2579	2566	2575	2639	2604	2605	2607	0- 10	2504	2504	4.21
20	2513	2458	2467	2432	2535	2491	2546	2516	10- 20	7203	9707	16.3
30	2291	2205	2003	2200	2335	2298	2179	2304	20- 30	10924	20631	34.7
40	1887	1632	1417	1660	1995	1801	1711	1780	30- 40	12358	32989	55.5
50	1144	969.6	941.5	1010	1291	1179	1234	1131	40- 50	10809	43797	73.6
60	579.9	536.3	576.8	557.8	654.5	678.5	747.6	653.4	50- 60	7524	51321	86.3
70	320.6	314.2	270.9	311.4	338.9	382.5	343.0	379.8	60- 70	4585	55906	94
80	158.2	152.7	141.4	146.1	186.6	186.7	182.9	187.0	70- 80	2581	58487	98.3
90	10.40	11.68	12.02	12.19	12.95	23.77	22.72	21.05	80- 90	994.1	59481	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		

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:FQC
Test Date:2023-07-22

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:GO-2000A_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:6.150m [K=1.0407]
Remarks:

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UGR(Unified Glare Rating) Table

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	25.5	26.9	25.8	27.1	27.3	25.0	26.4	25.3	26.6	26.8
3H	26.3	27.6	26.6	27.8	28.1	25.8	27.0	26.0	27.3	27.5
4H	26.7	28.0	27.0	28.2	28.4	26.1	27.3	26.4	27.6	27.8
6H	27.1	28.3	27.5	28.5	28.8	26.4	27.6	26.8	27.9	28.1
8H	27.3	28.4	27.6	28.7	28.9	26.6	27.7	26.9	28.0	28.3
12H	27.4	28.4	27.7	28.7	29.0	26.7	27.8	27.1	28.1	28.4
4H 2H	25.8	27.0	26.1	27.2	27.5	25.3	26.6	25.6	26.8	27.0
3H	26.8	27.9	27.1	28.1	28.4	26.3	27.4	26.7	27.7	28.0
4H	27.4	28.3	27.7	28.6	29.0	26.8	27.8	27.2	28.1	28.4
6H	27.9	28.8	28.3	29.1	29.5	27.3	28.2	27.7	28.5	28.9
8H	28.1	28.9	28.5	29.3	29.7	27.5	28.3	27.9	28.7	29.1
12H	28.3	29.0	28.7	29.4	29.8	27.7	28.4	28.1	28.8	29.2
8H 4H	27.5	28.3	27.9	28.7	29.1	27.0	27.8	27.4	28.2	28.6
6H	28.3	28.9	28.7	29.3	29.7	27.7	28.4	28.1	28.8	29.2
8H	28.6	29.2	29.0	29.6	30.0	28.0	28.6	28.5	29.0	29.5
12H	28.8	29.3	29.3	29.8	30.3	28.3	28.8	28.8	29.3	29.7
12H 4H	27.5	28.3	28.0	28.6	29.0	27.1	27.8	27.5	28.2	28.6
6H	28.3	28.9	28.8	29.3	29.8	27.8	28.4	28.2	28.8	29.2
8H	28.7	29.2	29.2	29.6	30.1	28.1	28.6	28.6	29.1	29.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.5 / - 0.5					+ 0.3 / - 0.4				
1.5H	+ 0.2 / - 0.3					+ 0.1 / - 0.2				
2.0H	+ 0.9 / - 0.7					+ 0.4 / - 0.5				

CIE Pub.117, 59481 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 14.2)

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Test Speed: HIGH
Temperature:25.3DEG
Operators:FQC
Test Date:2023-07-22

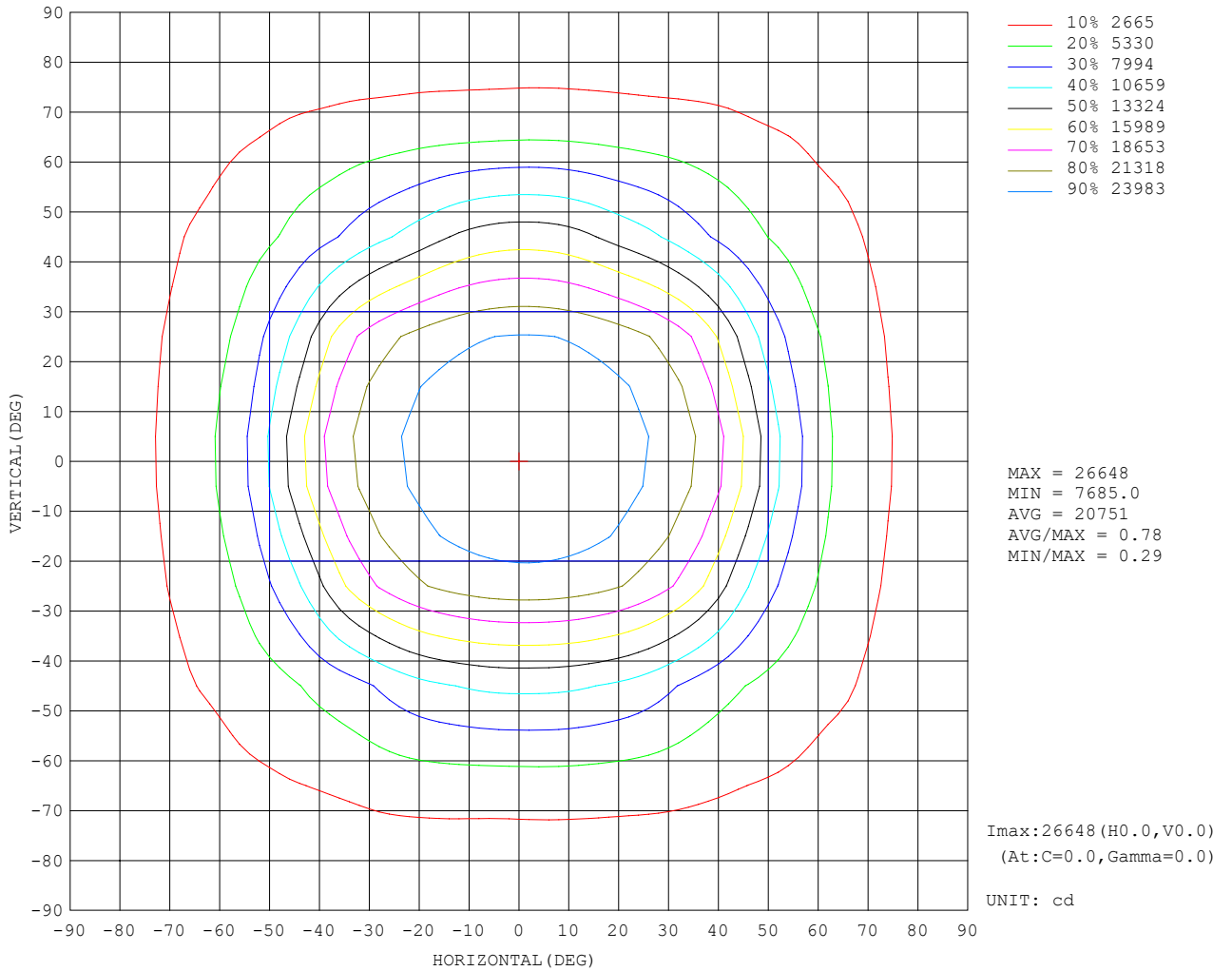
V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:GO-2000A_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:6.150m [K=1.0407]
Remarks:

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ISOCANDELA DIAGRAM



H(β) Range:-90 - 90DEG
 H(β) Interval: 2.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:FQC
 Test Date:2023-07-22

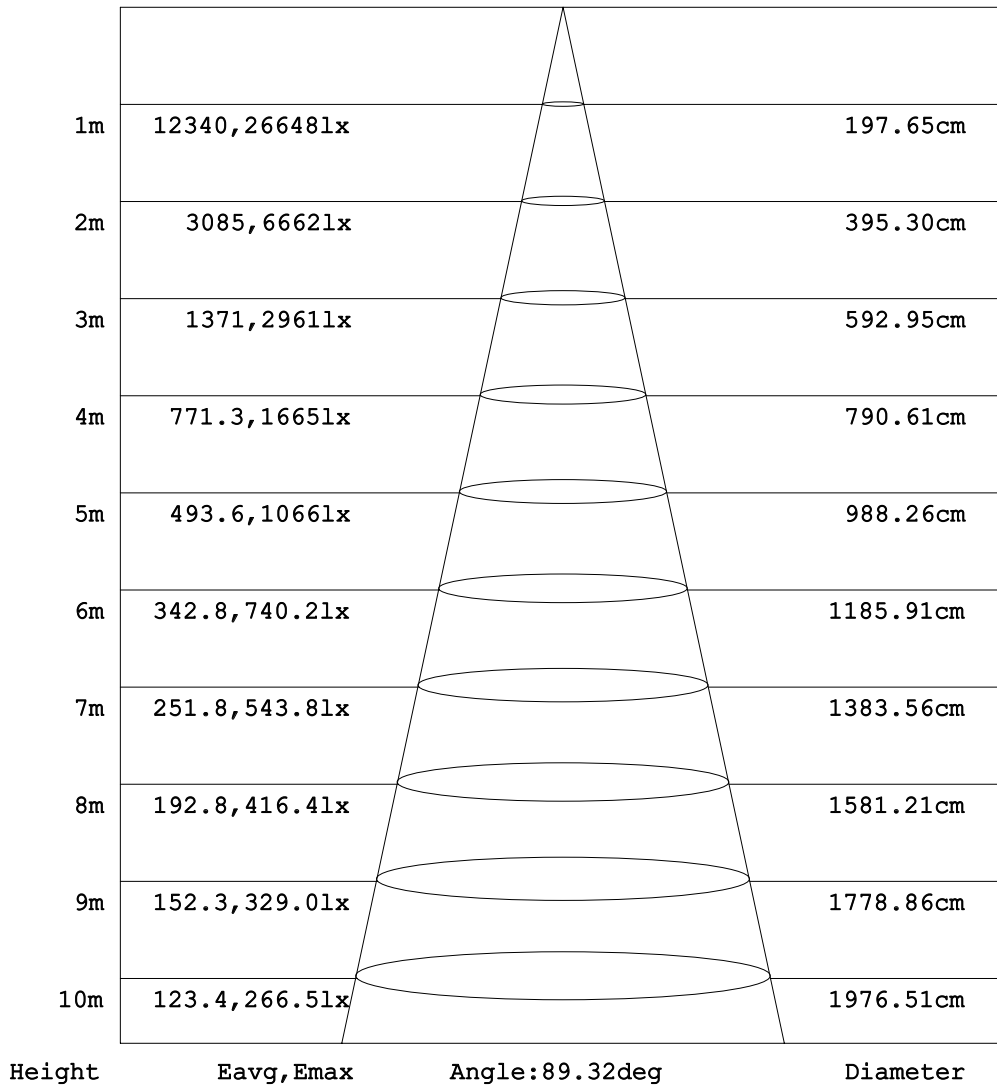
V(B) Range:-90 - 90DEG
 V(B) Interval: 5.0DEG
 Test System:GO-2000A_V1 SYSTEM V2.0.400
 Humidity:65.0%
 Test Distance:6.150m [K=1.0407]
 Remarks:



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AAI Figure

Flux out:38767 lm



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

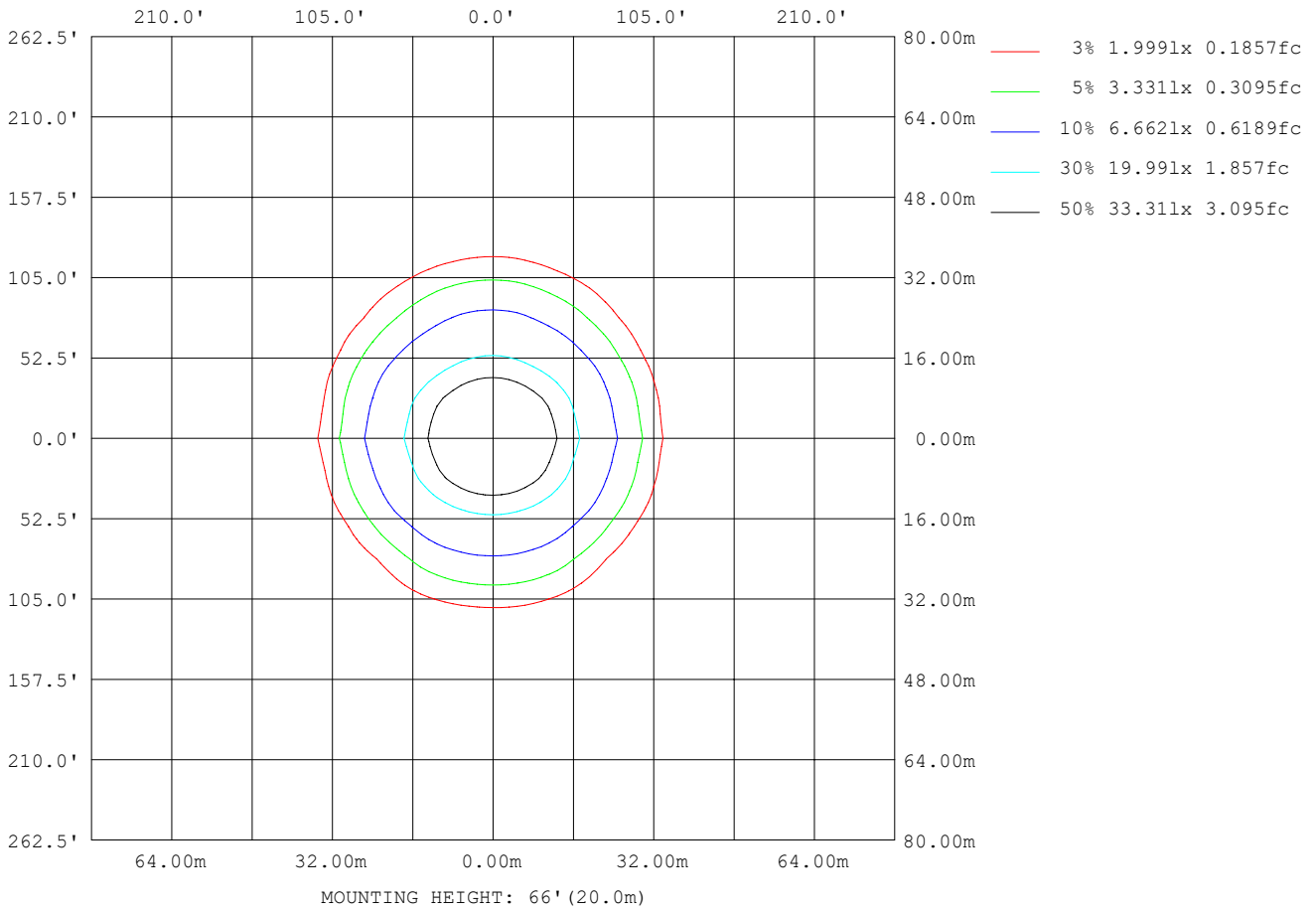
H (β) Range:-90 - 90DEG
 H (β) Interval: 2.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:FQC
 Test Date:2023-07-22

V(B) Range:-90 - 90DEG
 V(B) Interval: 5.0DEG
 Test System:GO-2000A_V1 SYSTEM V2.0.400
 Humidity:65.0%
 Test Distance:6.150m [K=1.0407]
 Remarks:



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ISOLUX DIAGRAM



H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:FQC
Test Date:2023-07-22

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:GO-2000A_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:6.150m [K=1.0407]
Remarks:

T 314.743.3067

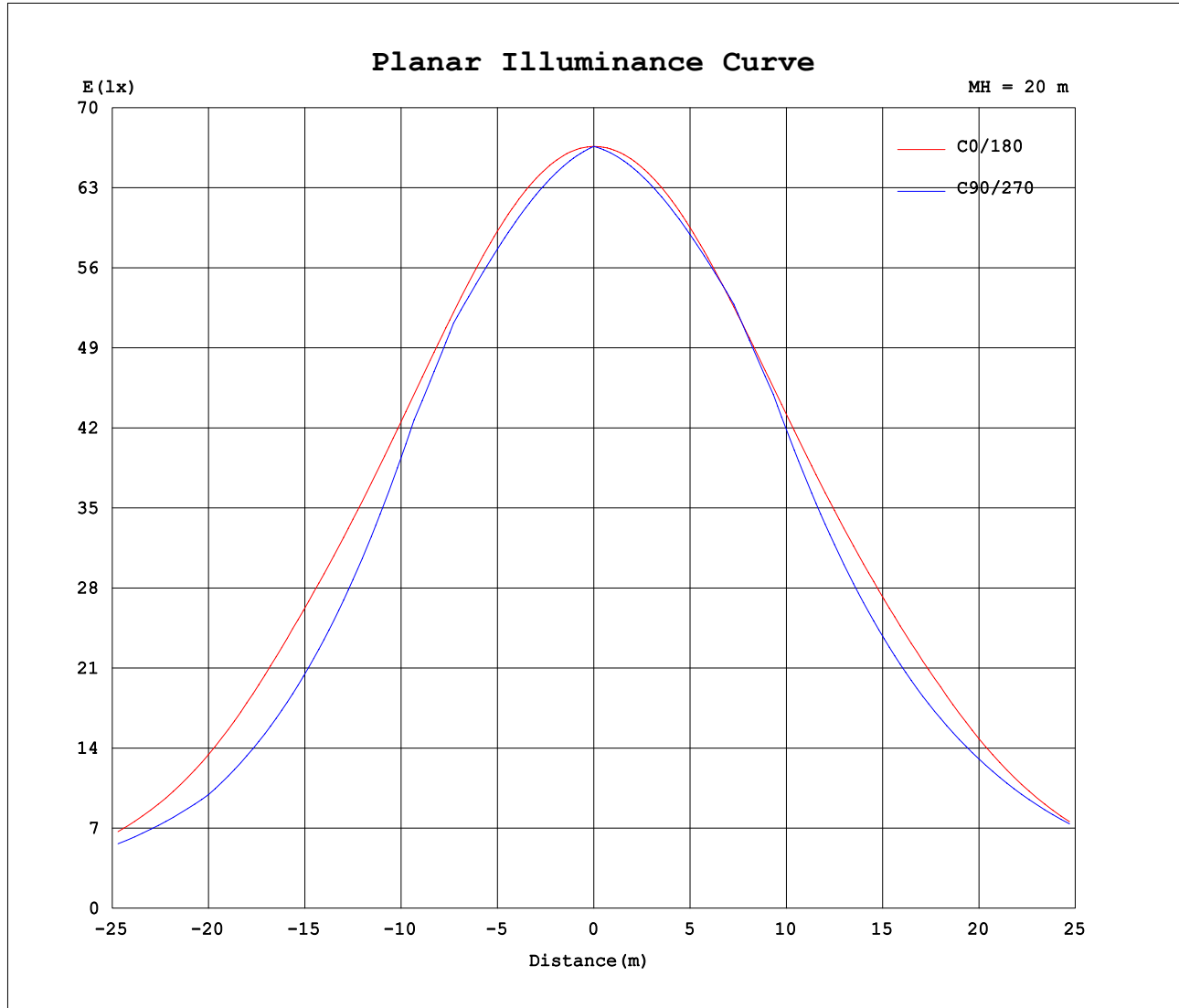
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Planar Illuminance Curve



H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:FQC
Test Date:2023-07-22

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:GO-2000A_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:6.150m [K=1.0407]
Remarks:



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