

Luminaire Photograph



Light Output Ratio:	87.5%	
Luminaire Power:	13.84 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.70	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2025-7-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: BXRH-30G10T0-G-83 Ra: 90
LENS: PM-1084B 36R
DRIVER: PUP20A-1WMC 600mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

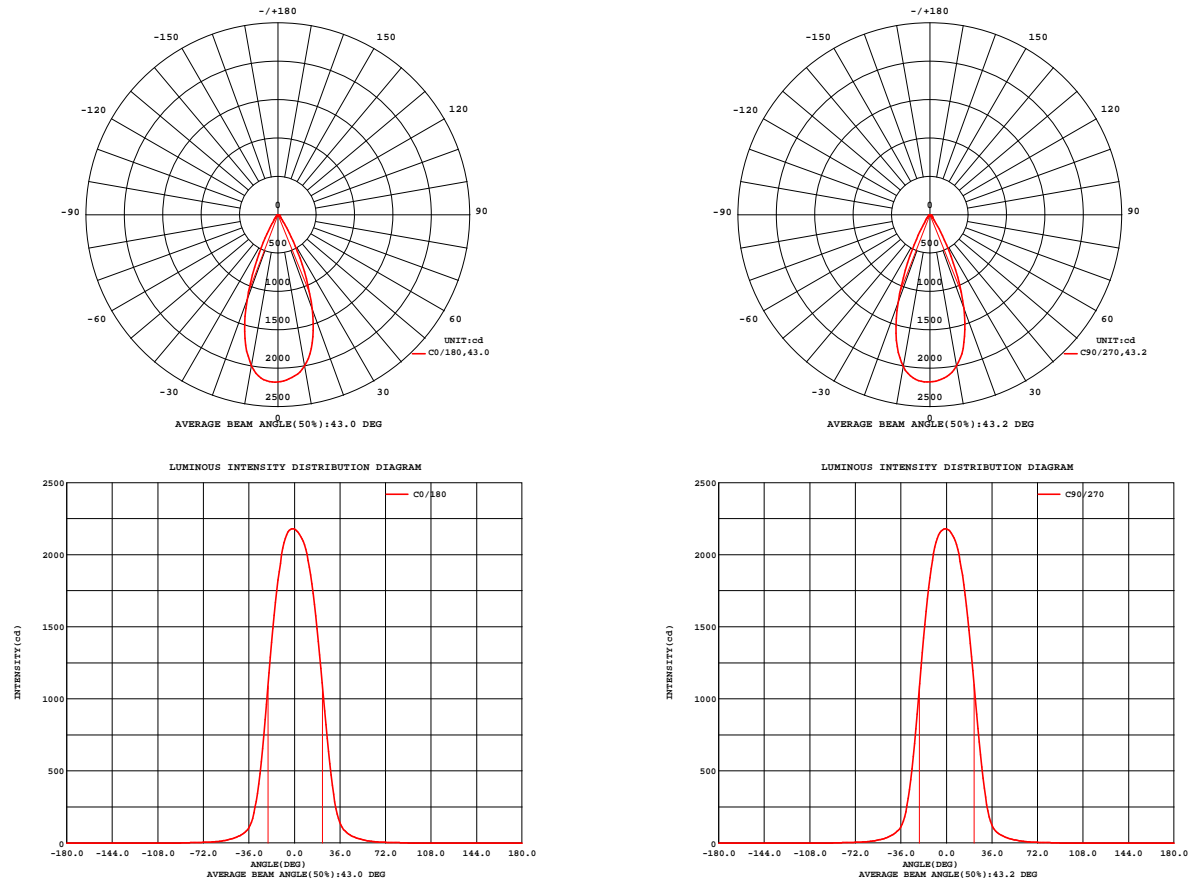


Fig. C0/C180

Fig. C90/C270

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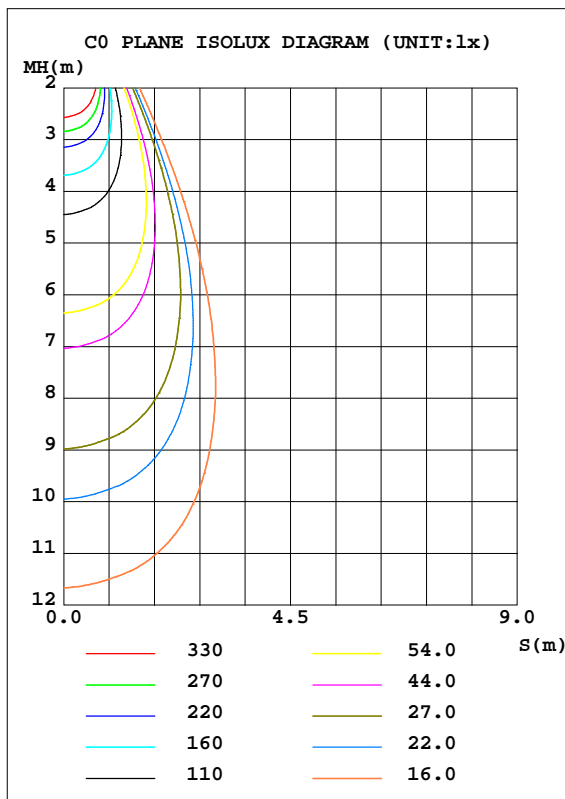
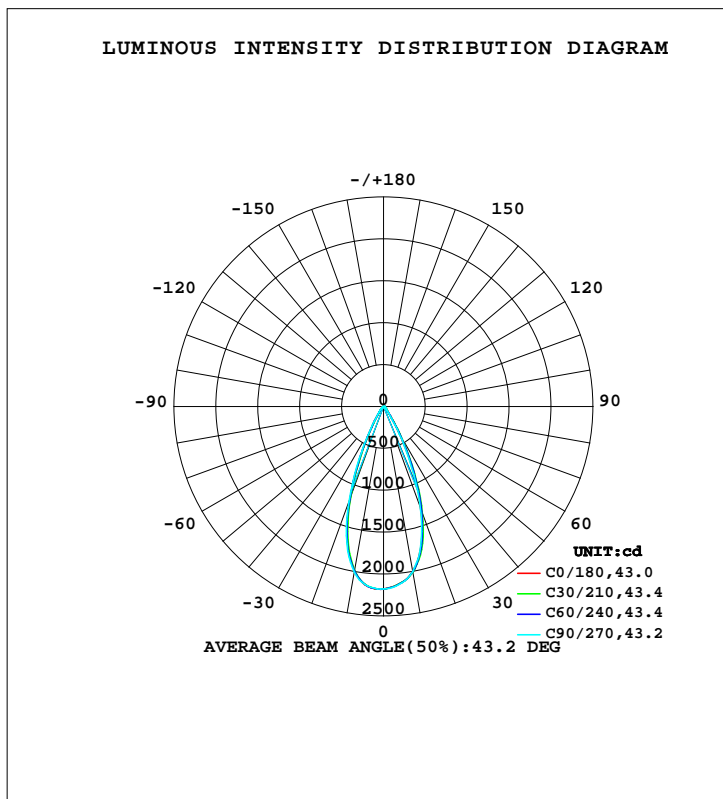
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.17V I:0.1161A P:13.836W PF:0.9902 Freq:59.98Hz Lamp Flux:1342.44x1 lm		
NAME: 2218.510-LEA-28-H0	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2507180441
MFR.: RISE	SUR.: 0.00166106m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 84.89 lm/W			
MODEL	Brideglux	I _{max} (cd)	2180	S/MH(C0/180)	0.64
NOMINAL POWER(W)	13	LOR(%)	87.5	S/MH(C90/270)	0.65
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1174.5	η UP,DN(C0-180)	0.0,44.7
NOMINAL FLUX(lm)	1342.44	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,42.8
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	120	η down(%)	87.5	CIBSE SHR MAX	0.70



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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	2001	2005	2001	1989	1998	1992	2009	2028	0- 10	200.3	200.3	17.1,14.9
20	1305	1345	1292	1180	1181	1165	1212	1307	10- 20	463.8	664.1	56.5,49.5
30	400.8	437.5	380.1	299.1	288.0	280.9	310.6	393.4	20- 30	340.2	1004	85.5,74.8
40	84.69	83.42	74.06	65.60	67.32	66.46	71.52	83.84	30- 40	102.8	1107	94.3,82.5
50	31.87	32.05	29.67	26.82	26.75	26.56	28.29	32.05	40- 50	36.84	1144	97.4,85.2
60	12.62	13.04	12.36	9.881	10.89	10.80	11.61	12.60	50- 60	17.44	1161	98.9,86.5
70	5.202	5.286	5.174	3.706	5.096	5.059	5.157	5.344	60- 70	7.535	1169	99.5,87.1
80	2.969	2.948	2.883	2.318	2.958	2.946	3.048	3.081	70- 80	4.001	1173	99.9,87.4
90	0	0	0	0	0	0	0	0	80- 90	1.567	1175	100,87.5
100	0	0	0	0	0	0	0	0	90-100	0	1175	100,87.5
110	0	0	0	0	0	0	0	0	100-110	0	1175	100,87.5
120	0	0	0	0	0	0	0	0	110-120	0	1175	100,87.5
130	0	0	0	0	0	0	0	0	120-130	0	1175	100,87.5
140	0	0	0	0	0	0	0	0	130-140	0	1175	100,87.5
150	0	0	0	0	0	0	0	0	140-150	0	1175	100,87.5
160	0	0	0	0	0	0	0	0	150-160	0	1175	100,87.5
170	0	0	0	0	0	0	0	0	160-170	0	1175	100,87.5
180	0	0	0	0	0	0	0	0	170-180	0	1175	100,87.5
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Operators:zoe
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γ Range: 0 - 180DEG
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Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:120.17V I:0.1161A P:13.836W PF:0.9902 Freq:59.98Hz
Lamp Flux:1342.44x1 lm

NAME: 2218.510-LEA-28-H0

TYPE:

WEIGHT:

SPEC.: 3000K

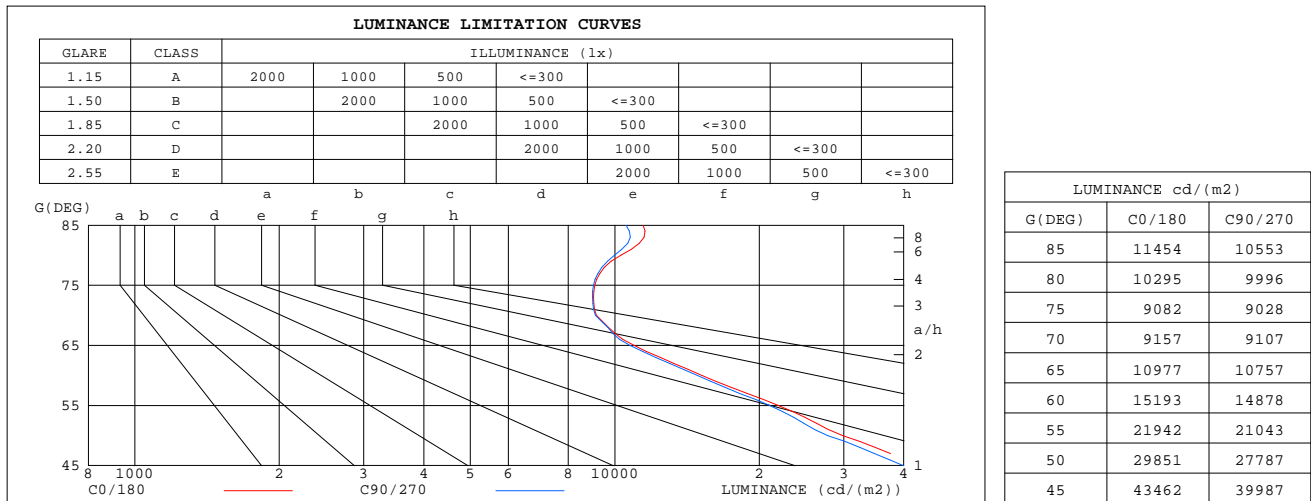
DIM.:

SERIAL No.: 2507180441

MFR.: RISE

SUR.: 0.00166106m2

Shielding Angle:



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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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WEIGHT:

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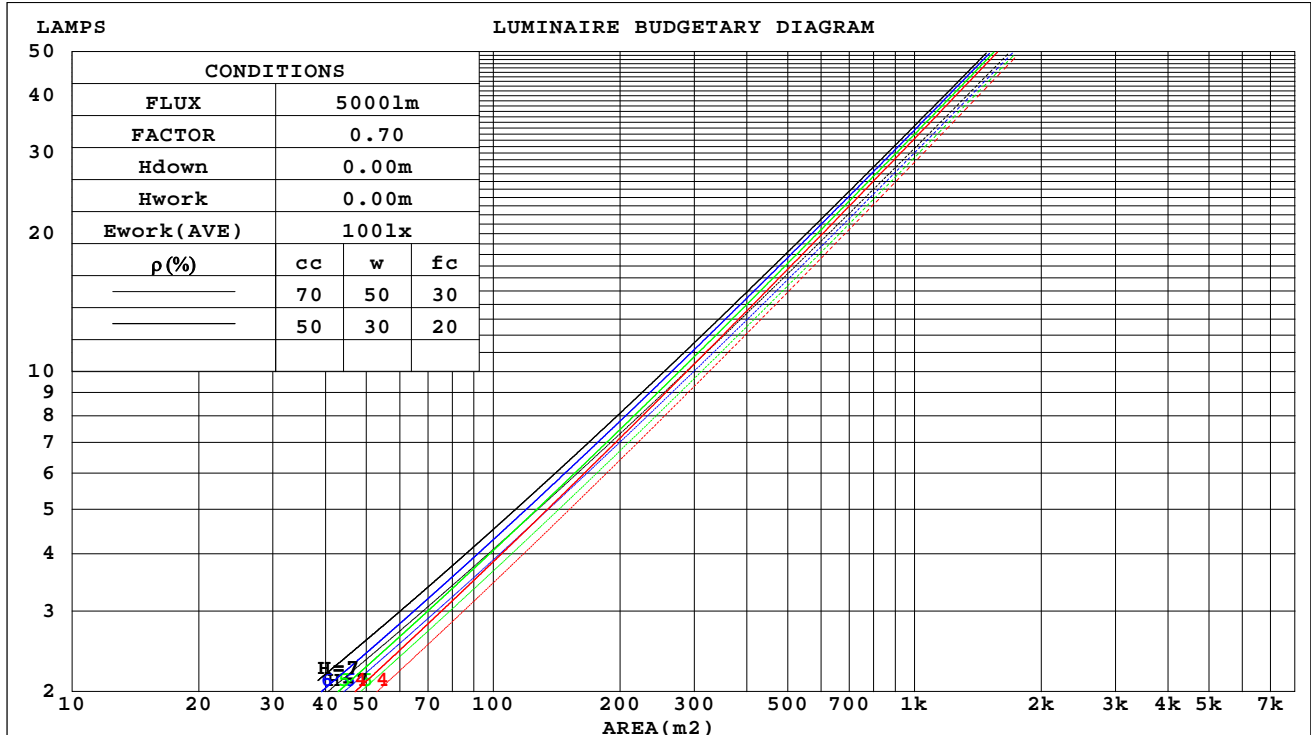
SERIAL No.: 2507180441

MFR.: RISE

SUR.: 0.00166106m2

Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



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WEC AND CCEC

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SPEC.: 3000K	DIM.:	SERIAL No.: 2507180441
MFR.: RISE	SUR.: 0.00166106m2	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.144	.082	.026	.138	.079	.025	.127	.073	.023	.117	.068	.022	.108	.063	.020		
2.0	.136	.074	.023	.131	.072	.022	.122	.068	.021	.113	.064	.020	.106	.060	.019		
3.0	.128	.068	.020	.124	.066	.020	.116	.063	.019	.109	.060	.018	.102	.057	.018		
4.0	.121	.063	.019	.118	.062	.018	.111	.059	.018	.105	.056	.017	.099	.054	.016		
5.0	.115	.059	.017	.112	.057	.017	.106	.055	.016	.101	.053	.016	.096	.051	.015		
6.0	.109	.055	.016	.107	.054	.015	.102	.052	.015	.097	.050	.015	.093	.049	.014		
7.0	.104	.052	.015	.102	.051	.014	.097	.049	.014	.093	.048	.014	.089	.046	.014		
8.0	.100	.049	.014	.097	.048	.014	.094	.047	.013	.090	.046	.013	.086	.044	.013		
9.0	.095	.046	.013	.094	.046	.013	.090	.045	.013	.087	.043	.012	.084	.042	.012		
10.0	.091	.044	.012	.090	.043	.012	.087	.042	.012	.084	.042	.012	.081	.041	.012		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.167	.167	.167	.142	.142	.142	.097	.097	.097	.056	.056	.056	.018	.018	.018	
1.0	.149	.138	.128	.127	.118	.110	.087	.081	.076	.050	.047	.044	.016	.015	.014	
2.0	.135	.116	.100	.115	.100	.087	.079	.069	.060	.046	.040	.035	.015	.013	.012	
3.0	.123	.099	.080	.106	.086	.070	.072	.059	.049	.042	.035	.029	.013	.011	.009	
4.0	.113	.086	.065	.097	.074	.057	.067	.052	.040	.039	.030	.024	.012	.010	.008	
5.0	.105	.076	.054	.090	.066	.047	.062	.046	.033	.036	.027	.020	.012	.009	.007	
6.0	.098	.067	.045	.084	.058	.040	.058	.041	.028	.034	.024	.017	.011	.008	.005	
7.0	.092	.061	.039	.079	.053	.034	.055	.037	.024	.032	.022	.014	.010	.007	.005	
8.0	.087	.055	.033	.075	.048	.029	.052	.034	.020	.030	.020	.012	.010	.006	.004	
9.0	.082	.050	.029	.071	.044	.025	.049	.031	.018	.029	.018	.011	.009	.006	.004	
10.0	.078	.046	.025	.067	.040	.022	.047	.028	.016	.027	.017	.009	.009	.006	.003	

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30minutes warm-up

UGR(Unified Glare Rating) Table

Test:U:120.17V I:0.1161A P:13.836W PF:0.9902 Freq:59.98Hz Lamp Flux:1342.44x1 lm										
NAME: 2218.510-LEA-28-H0					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2507180441		
MFR.: RISE					SUR.: 0.00166106m2			Shielding 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	18.4	19.2	18.6	19.4	19.6	18.1	18.9	18.3	19.1	19.2
3H	18.4	19.2	18.7	19.4	19.6	18.1	18.9	18.3	19.1	19.3
4H	18.4	19.2	18.7	19.4	19.6	18.1	18.9	18.4	19.1	19.3
6H	18.5	19.2	18.8	19.4	19.6	18.2	18.9	18.5	19.1	19.3
8H	18.5	19.2	18.8	19.4	19.7	18.2	18.9	18.5	19.1	19.4
12H	18.5	19.2	18.8	19.4	19.7	18.2	18.8	18.5	19.1	19.4
4H 2H	18.3	19.0	18.6	19.3	19.5	18.0	18.7	18.3	18.9	19.1
3H	18.4	19.0	18.7	19.3	19.6	18.1	18.7	18.4	19.0	19.3
4H	18.4	19.0	18.8	19.3	19.6	18.2	18.7	18.5	19.0	19.3
6H	18.5	19.1	18.9	19.4	19.7	18.3	18.8	18.6	19.1	19.5
8H	18.6	19.1	19.0	19.4	19.8	18.3	18.8	18.7	19.2	19.5
12H	18.7	19.1	19.1	19.5	19.9	18.4	18.8	18.8	19.2	19.6
8H 4H	18.4	18.9	18.8	19.2	19.6	18.1	18.6	18.5	18.9	19.3
6H	18.6	19.0	19.0	19.4	19.8	18.3	18.7	18.7	19.1	19.5
8H	18.7	19.0	19.1	19.5	19.9	18.4	18.8	18.9	19.2	19.6
12H	18.8	19.1	19.3	19.6	20.0	18.5	18.8	19.0	19.3	19.7
12H 4H	18.4	18.8	18.8	19.2	19.6	18.1	18.5	18.5	18.9	19.3
6H	18.6	18.9	19.0	19.3	19.8	18.3	18.6	18.7	19.1	19.5
8H	18.7	19.0	19.2	19.5	19.9	18.5	18.8	18.9	19.2	19.7
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.7 / - 2.1					+ 1.4 / - 2.0				
1.5H	+ 2.8 / - 1.5					+ 2.3 / - 1.4				
2.0H	+ 2.4 / - 1.7					+ 2.2 / - 1.6				

CIE Pub.117, 1342 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.0)
Area: 0.00166106 m2

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30minutes warm-up

UTILIZATION FACTORS TABLE

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NAME: 2218.510-LEA-28-H0	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2507180441
MFR.: RISE	SUR.: 0.00166106m2	Shielding Angle:

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	77	71	68	77	71	68	76	71	68	65
0.80	83	78	75	83	78	75	82	78	75	72
1.00	87	82	79	86	82	79	85	82	78	75
1.25	91	86	83	90	86	83	88	85	82	78
1.50	93	89	86	92	88	85	90	87	85	81
2.00	95	92	89	94	91	88	92	89	87	82
2.50	97	93	91	95	92	90	92	90	88	83
3.00	98	95	93	96	94	92	93	91	90	84
4.00	100	97	95	98	96	94	95	93	92	86
5.00	101	99	97	99	97	96	95	94	93	86
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

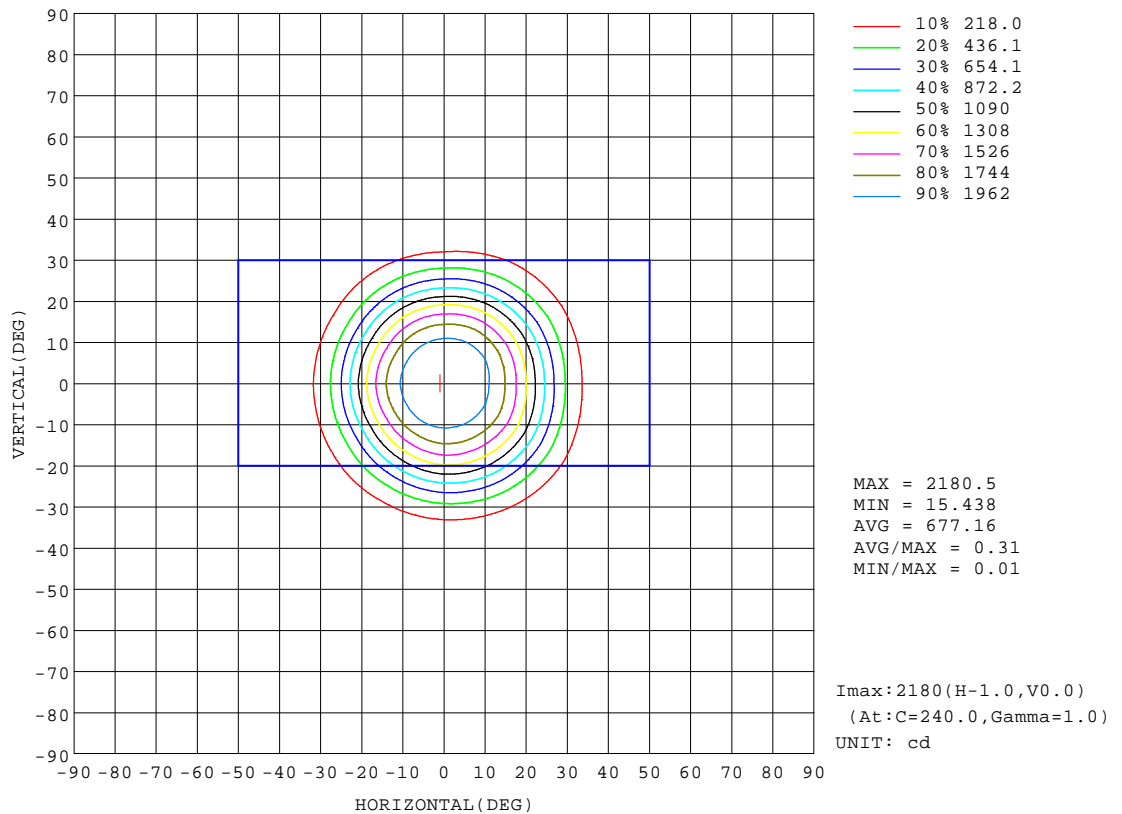
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ISOCANDELA DIAGRAM

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MFR.: RISE	SUR.: 0.00166106m2	Shielding Angle:



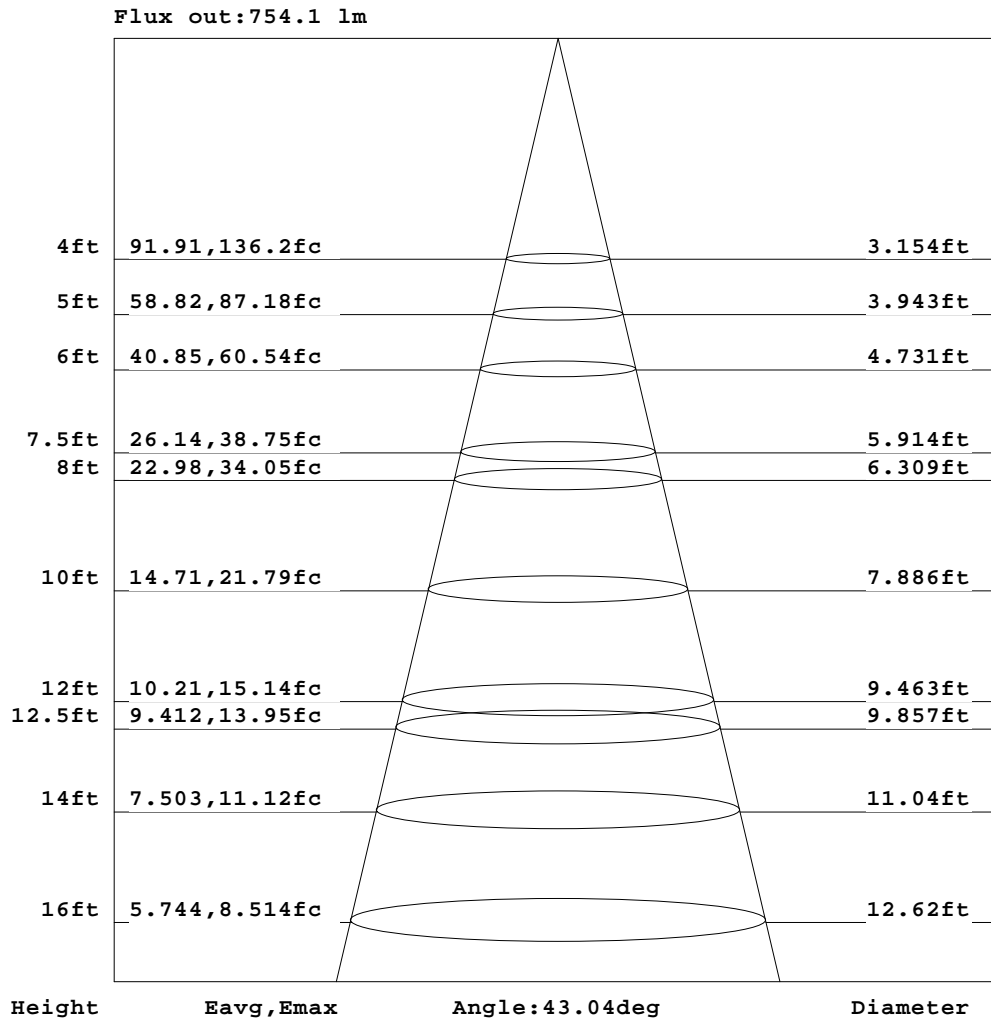
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AAI Figure

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

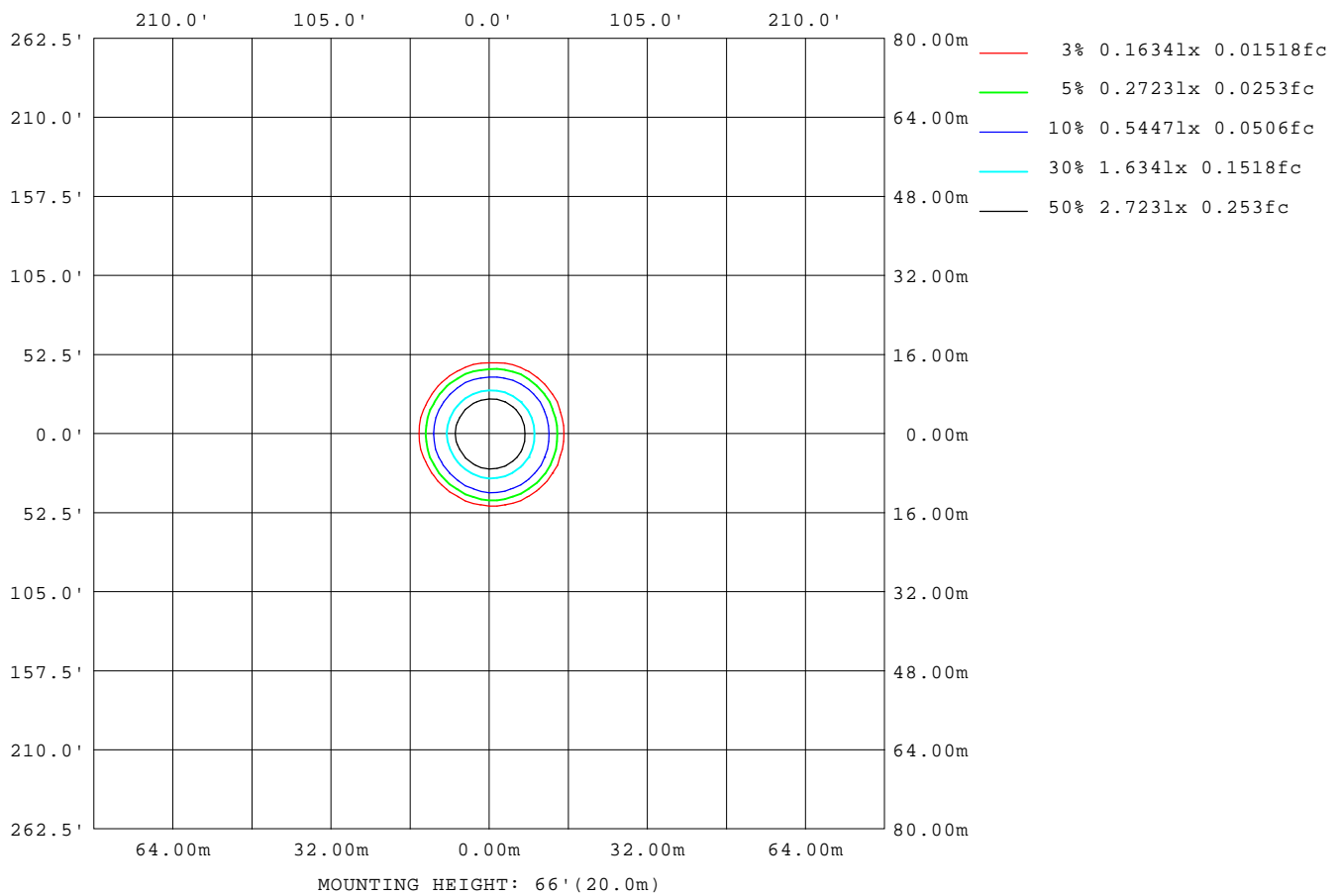
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ISOLUX DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2507180441
MFR.: RISE	SUR.: 0.00166106m2	Shielding Angle:



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C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2025-7-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: BXRH-30G10T0-G-83 Ra: 90
LENS: PM-1084B 36R
DRIVER: PUP20A-1WMC 600mA

30minutes warm-up

LED Avg.L Report

Test:U:120.17V I:0.1161A P:13.836W PF:0.9902 Freq:59.98Hz Lamp Flux:1342.44x1 lm		
NAME: 2218.510-LEA-28-H0	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2507180441
MFR.: RISE	SUR.: 0.00166106m2	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	10434
L_0~180(75)av	9047
L_0~180(85)av	10390
L_90~270(65)av	10534
L_90~270(75)av	9107
L_90~270(85)av	10367
L_45(65)av	10139
L_45(75)av	8404
L_45(85)av	9822

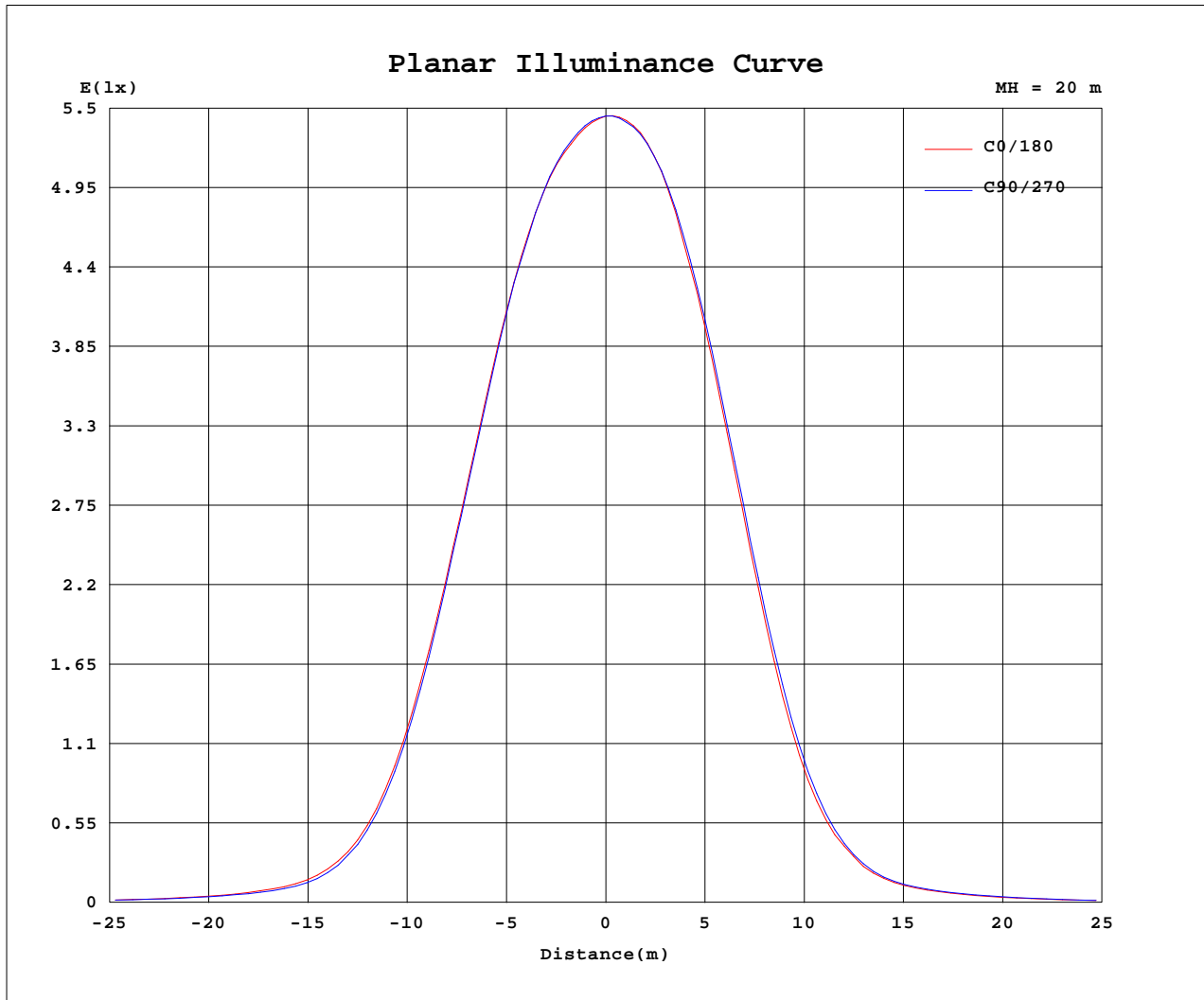
Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2025-7-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRH-30G10T0-G-83 Ra:90
LENS:PM-1084B 36R
DRIVER:PUP20A-1WMC 600mA

30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: zoe
 Test Date: 2025-7-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
 Humidity: 65.0%
 Test Distance: 3.160m [K=1.0000]
 Remarks: LAMP: BXRH-30G10T0-G-83 Ra:90
 LENS: PM-1084B 36R
 DRIVER: PUP20A-1WMC 600mA

30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.17V I:0.1161A P:13.836W PF:0.9902 Freq:59.98Hz Lamp Flux:1342.44x1 lm		
NAME: 2218.510-LEA-28-H0	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2507180441
MFR.: RISE	SUR.: 0.00166106m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	2178	2178	2178	2178	2178	2178	2178	2178	2178	2178	2178	2178						
5	2125	2126	2129	2133	2140	2146	2157	2153	2154	2153	2151	2142						
10	2001	2008	2003	2001	1992	1985	1998	1986	1998	2009	2028	2029						
15	1730	1767	1740	1720	1671	1646	1668	1644	1675	1693	1751	1762						
20	1305	1360	1330	1292	1207	1152	1181	1149	1182	1212	1290	1323						
25	820	881	854	795	704	641	654	630	661	690	771	826						
30	401	448	427	380	316	282	288	273	289	311	372	415						
35	170	192	173	152	126	117	122	117	121	129	158	178						
40	84.7	84.9	82.0	74.1	67.3	63.9	67.3	65.7	67.3	71.5	79.9	87.8						
45	51.0	51.2	49.3	47.0	43.3	41.5	42.7	41.1	42.7	45.1	49.9	52.7						
50	31.9	32.4	31.7	29.7	27.4	26.3	26.7	26.0	27.2	28.3	31.1	33.0						
55	20.9	21.7	21.2	20.1	16.6	17.2	17.6	17.2	17.9	18.7	20.6	21.5						
60	12.6	13.2	12.9	12.4	9.20	10.6	10.9	10.6	11.0	11.6	12.4	12.8						
65	7.71	7.94	7.86	7.55	5.23	6.77	6.94	6.80	6.94	7.24	7.68	7.93						
70	5.20	5.30	5.27	5.17	2.45	4.96	5.10	5.04	5.08	5.16	5.30	5.39						
75	3.90	3.94	3.92	3.88	1.78	3.75	3.87	3.84	3.88	3.95	4.02	4.02						
80	2.97	2.96	2.94	2.88	1.82	2.82	2.96	2.92	2.97	3.05	3.10	3.07						
85	1.66	1.74	1.33	1.53	1.16	1.20	1.35	1.24	1.31	1.47	1.69	1.80						
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2025-7-18

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