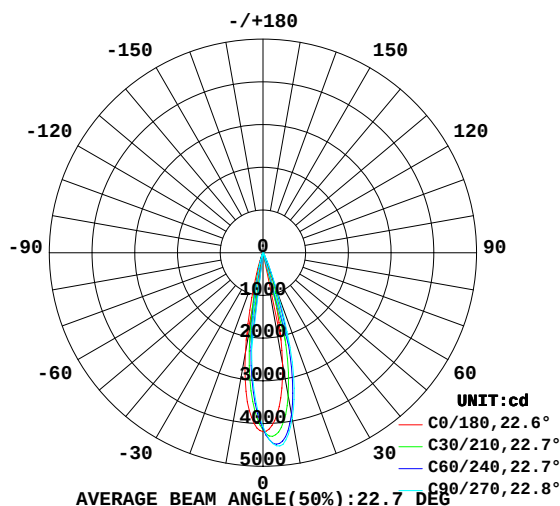


LUMINAIRE PHOTOMETRIC TEST REPORT

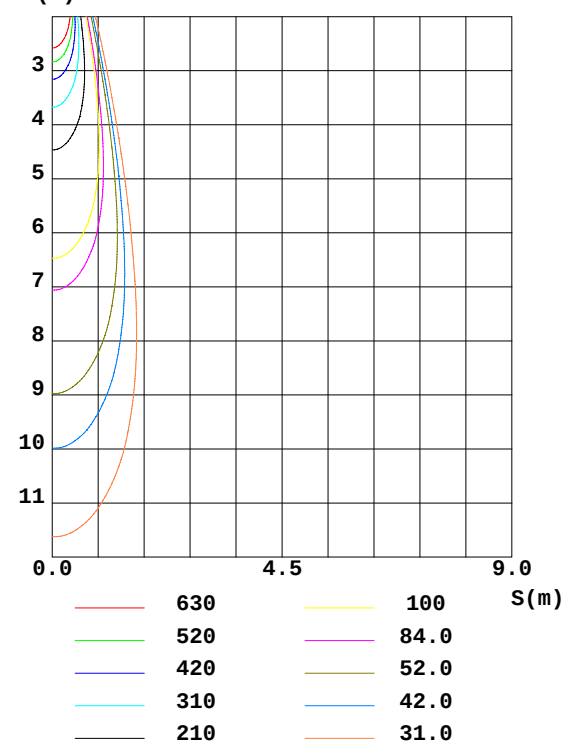
NAME:CL-Zoom55-uls 3000k-Ra90-20D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 72.84 lm/W			
MODEL		I _{max} (cd)	4553	S/MH(C0/180)	0.37
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	0.49
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	751.74	η UP, DN(C0-180)	0.2, 69.2
NOMINAL FLUX(lm)	751.736	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.2, 30.4
LAMPS INSIDE	1	η up(%)	0.4	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	24	η down(%)	99.6	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [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	2639	3665	3939	3396	2393	1424	1215	1559	0- 10	314.1	314.1	41.8, 41.8
20	308.2	727.7	979.5	590.4	245.8	135.8	115.0	150.2	10- 20	338.3	652.4	86.8, 86.8
30	42.77	72.05	89.90	67.11	37.84	24.21	21.18	25.27	20- 30	67.98	720.4	95.8, 95.8
40	11.77	16.00	17.82	14.96	11.20	8.734	7.967	8.907	30- 40	14.96	735.3	97.8, 97.8
50	5.757	6.789	7.188	6.605	5.551	4.856	4.749	4.910	40- 50	6.356	741.7	98.7, 98.7
60	3.353	4.004	4.311	3.870	3.438	3.265	3.393	3.072	50- 60	4.065	745.7	99.2, 99.2
70	2.149	2.466	2.679	2.414	1.230	0.1398	0.0012	0.3462	60- 70	2.589	748.3	99.5, 99.5
80	0	0	0	0	0	0	0	0	70- 80	0.4976	748.8	99.6, 99.6
90	0	0	0	0	0	0	0	0	80- 90	0	748.8	99.6, 99.6
100	0	0	0	0	0	0	0	0	90-100	0	748.8	99.6, 99.6
110	0	0	0	0	0	0	0	0	100-110	0	748.8	99.6, 99.6
120	0	0	0	0	0	0	0	0	110-120	0	748.8	99.6, 99.6
130	0	0	0	0	0	0	0	0	120-130	0.0000	748.8	99.6, 99.6
140	0	0	0	0.0000	0.1279	0.2832	0.3531	0.2408	130-140	0.0251	748.9	99.6, 99.6
150	0.9705	0.5403	0.4494	0.6087	1.149	1.765	2.013	1.640	140-150	0.3144	749.2	99.7, 99.7
160	3.211	2.518	2.305	2.628	3.315	3.988	4.189	3.854	150-160	0.9663	750.1	99.8, 99.8
170	4.874	4.615	4.522	4.584	4.800	4.796	4.724	4.567	160-170	1.141	751.3	99.9, 99.9
180	5.031	4.974	4.889	4.717	5.040	4.972	4.856	4.703	170-180	0.4534	751.7	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

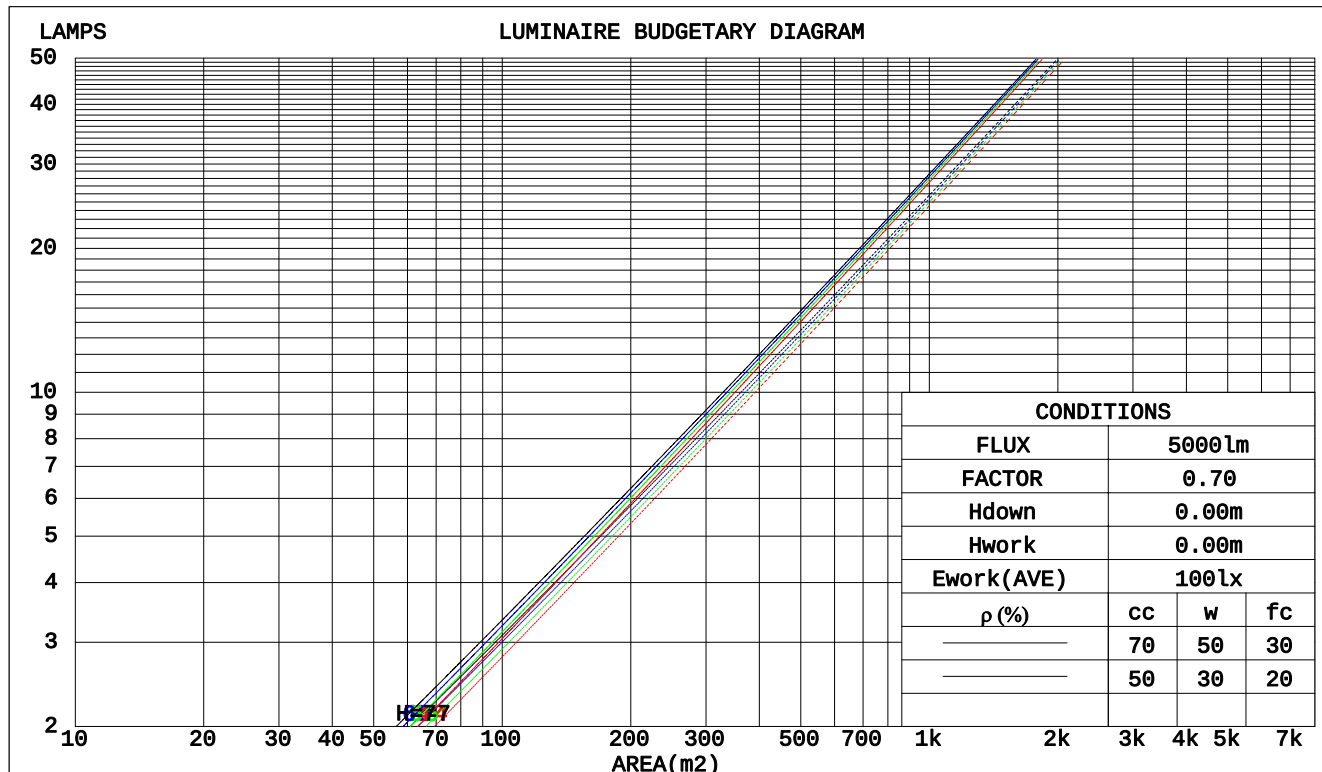
C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: tang
 Test Date: 2022-04-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
 Humidity: 65.0%
 Test Distance: 7.100m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: zoom55-3000k-Ra90-20D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	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	.00
1.0	1.13	1.11	1.10	1.11	1.09	1.08	1.07	1.06	1.04	1.03	1.02	1.01	.00	.99	.98	.97
2.0	1.08	1.05	1.03	1.06	1.04	1.02	1.03	1.01	.99	1.00	.99	.97	.98	.96	.95	.94
3.0	1.04	1.00	.98	1.03	.99	.97	1.00	.98	.95	.98	.96	.94	.96	.94	.93	.91
4.0	1.00	.96	.94	.99	.96	.93	.97	.94	.92	.95	.93	.91	.94	.92	.90	.89
5.0	.97	.93	.90	.96	.92	.90	.94	.91	.89	.93	.90	.88	.92	.89	.88	.86
6.0	.94	.90	.87	.93	.90	.87	.92	.89	.86	.91	.88	.86	.90	.87	.85	.84
7.0	.91	.87	.85	.91	.87	.85	.90	.86	.84	.89	.86	.84	.88	.85	.83	.82
8.0	.89	.85	.82	.88	.85	.82	.88	.84	.82	.87	.84	.82	.86	.83	.81	.80
9.0	.87	.83	.80	.86	.83	.80	.86	.82	.80	.85	.82	.80	.84	.81	.80	.79
10.0	.85	.81	.79	.84	.81	.78	.84	.80	.78	.83	.80	.78	.82	.80	.78	.77



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: zoom55-3000k-Ra90-20D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	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	.131	.075	.024	.125	.071	.023	.112	.064	.021	.101	.058	.019	.090	.052	.017		
2.0	.121	.066	.020	.116	.064	.020	.105	.058	.018	.096	.054	.017	.087	.049	.015		
3.0	.112	.060	.018	.108	.058	.017	.099	.054	.016	.091	.050	.015	.084	.046	.014		
4.0	.105	.054	.016	.101	.053	.016	.094	.050	.015	.087	.047	.014	.081	.044	.013		
5.0	.098	.050	.014	.095	.049	.014	.089	.046	.014	.083	.044	.013	.078	.041	.012		
6.0	.092	.046	.013	.090	.045	.013	.084	.043	.013	.079	.041	.012	.075	.039	.012		
7.0	.088	.043	.012	.085	.042	.012	.080	.041	.012	.076	.039	.011	.072	.037	.011		
8.0	.083	.041	.011	.081	.040	.011	.077	.038	.011	.073	.037	.011	.070	.036	.010		
9.0	.079	.038	.011	.077	.038	.011	.074	.037	.010	.071	.035	.010	.067	.034	.010		
10.0	.076	.036	.010	.074	.036	.010	.071	.035	.010	.068	.034	.010	.065	.033	.009		

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	.193	.193	.193	.165	.165	.165	.113	.113	.113	.065	.065	.065	.021	.021	.021	
1.0	.171	.161	.151	.146	.138	.130	.100	.095	.090	.058	.055	.052	.018	.018	.017	
2.0	.152	.136	.122	.131	.117	.105	.089	.081	.073	.052	.047	.043	.017	.015	.014	
3.0	.137	.116	.100	.118	.100	.086	.081	.070	.061	.047	.041	.036	.015	.013	.012	
4.0	.124	.101	.083	.107	.087	.072	.073	.061	.051	.042	.036	.030	.014	.012	.010	
5.0	.113	.088	.070	.097	.076	.061	.067	.053	.043	.039	.031	.025	.013	.010	.008	
6.0	.104	.078	.060	.090	.068	.052	.062	.047	.037	.036	.028	.022	.012	.009	.007	
7.0	.096	.070	.051	.083	.061	.045	.057	.043	.032	.033	.025	.019	.011	.008	.006	
8.0	.090	.063	.045	.077	.055	.039	.053	.038	.028	.031	.023	.017	.010	.007	.005	
9.0	.084	.057	.039	.072	.050	.034	.050	.035	.024	.029	.021	.015	.009	.007	.005	
10.0	.079	.053	.035	.068	.046	.031	.047	.032	.022	.028	.019	.013	.009	.006	.004	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

Uncorrected UGR Table

NAME: zoom55-3000k-Ra90-20D					TYPE:					WEIGHT:				
DIM.:					SPEC.:					SERIAL No.:				
MFR.: VD					SUR.:					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	-5.5	-4.9	-5.3	-4.7	-4.6	-3.7	-3.1	-3.5	-2.9	-2.8				
3H	-4.6	-4.1	-4.4	-3.9	-3.7	-3.1	-2.6	-2.9	-2.4	-2.2				
4H	-4.7	-4.2	-4.4	-4.0	-3.7	-2.9	-2.4	-2.6	-2.2	-1.9				
6H	-4.8	-4.3	-4.5	-4.0	-3.8	-3.0	-2.5	-2.7	-2.2	-2.0				
8H	-4.8	-4.3	-4.5	-4.1	-3.8	-3.0	-2.5	-2.7	-2.3	-2.0				
12H	-4.9	-4.4	-4.6	-4.1	-3.9	-3.1	-2.6	-2.8	-2.3	-2.1				
4H 2H	-5.2	-4.6	-4.9	-4.4	-4.2	-3.6	-3.1	-3.3	-2.8	-2.6				
3H	-4.1	-3.6	-3.8	-3.3	-3.1	-2.8	-2.4	-2.5	-2.1	-1.8				
4H	-4.2	-3.7	-3.8	-3.4	-3.1	-2.6	-2.2	-2.3	-1.9	-1.6				
6H	-4.3	-3.9	-3.9	-3.5	-3.2	-2.7	-2.3	-2.3	-2.0	-1.6				
8H	-4.3	-3.9	-3.9	-3.6	-3.2	-2.7	-2.4	-2.3	-2.0	-1.7				
12H	-4.4	-4.0	-4.0	-3.7	-3.3	-2.8	-2.5	-2.4	-2.1	-1.7				
8H 4H	-4.2	-3.8	-3.8	-3.4	-3.1	-2.7	-2.3	-2.3	-1.9	-1.6				
6H	-4.3	-4.0	-3.9	-3.6	-3.2	-2.8	-2.5	-2.3	-2.1	-1.6				
8H	-4.3	-4.1	-3.9	-3.7	-3.2	-2.8	-2.6	-2.4	-2.1	-1.7				
12H	-4.4	-4.2	-3.9	-3.7	-3.3	-2.9	-2.7	-2.4	-2.2	-1.7				
12H 4H	-4.2	-3.9	-3.8	-3.5	-3.1	-2.7	-2.4	-2.3	-2.0	-1.6				
6H	-4.3	-4.1	-3.9	-3.7	-3.2	-2.8	-2.6	-2.4	-2.1	-1.7				
8H	-4.4	-4.2	-3.9	-3.7	-3.3	-2.9	-2.7	-2.4	-2.2	-1.7				
Variations with the observer position at spacings:														
S = 1.0H	+ 0.9 / - 1.3					+ 1.2 / - 1.1								
1.5H	+ 1.1 / - 0.7					+ 2.4 / - 1.1								
2.0H	+ 1.2 / - 1.1					+ 1.4 / - 2.2								

CIE Pub.117 Corrected 751.7 lm Total Lamp Luminous Flux.(8log(F/F0) = -1.0)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: zoom55-3000k-Ra90-20D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

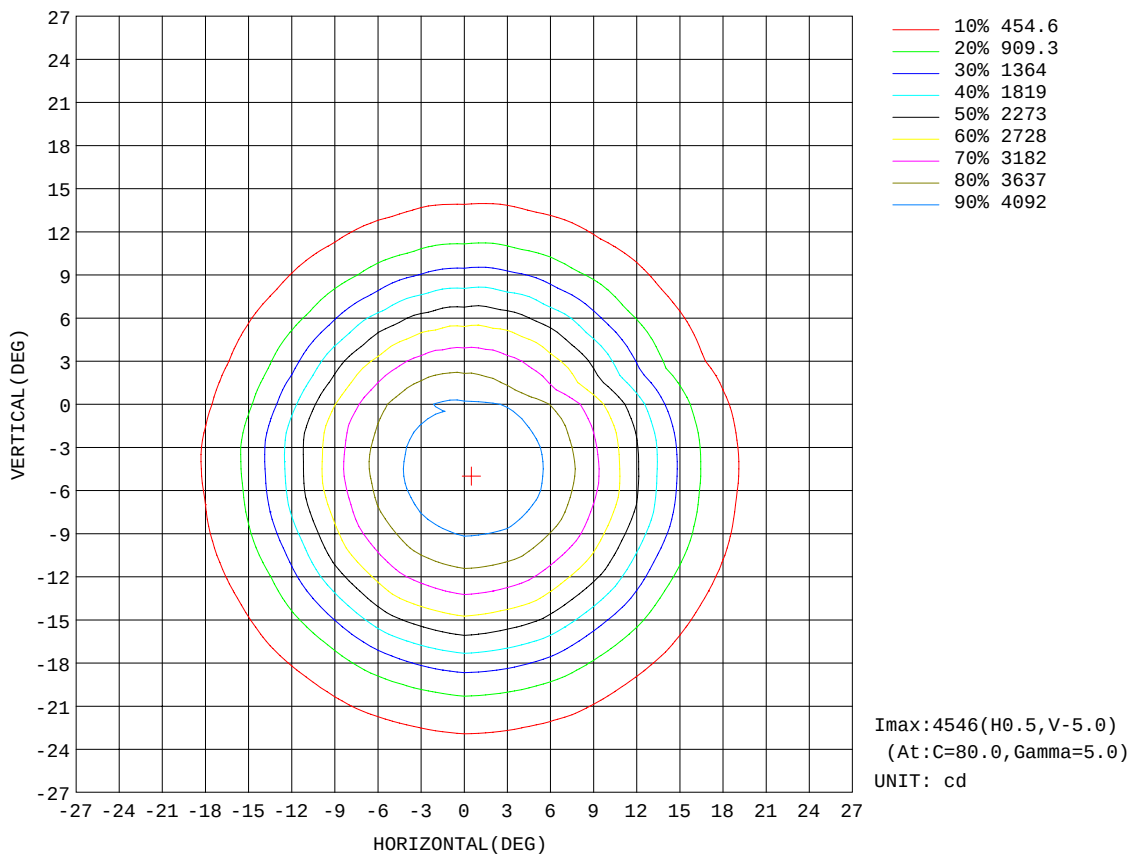
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	90	84	81	90	84	81	89	84	81	77
0.80	97	92	89	97	92	88	95	91	88	85
1.00	101	96	93	100	96	92	99	95	92	88
1.25	105	100	97	104	99	96	102	98	96	92
1.50	107	103	100	106	102	99	104	101	98	94
2.00	109	106	103	108	105	102	105	103	100	95
2.50	111	107	105	109	106	104	106	104	102	96
3.00	112	109	107	111	108	106	107	105	103	97
4.00	114	112	110	112	110	108	109	107	106	98
5.00	115	113	112	113	112	110	109	108	107	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended				SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: zoom55-3000k-Ra90-20D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

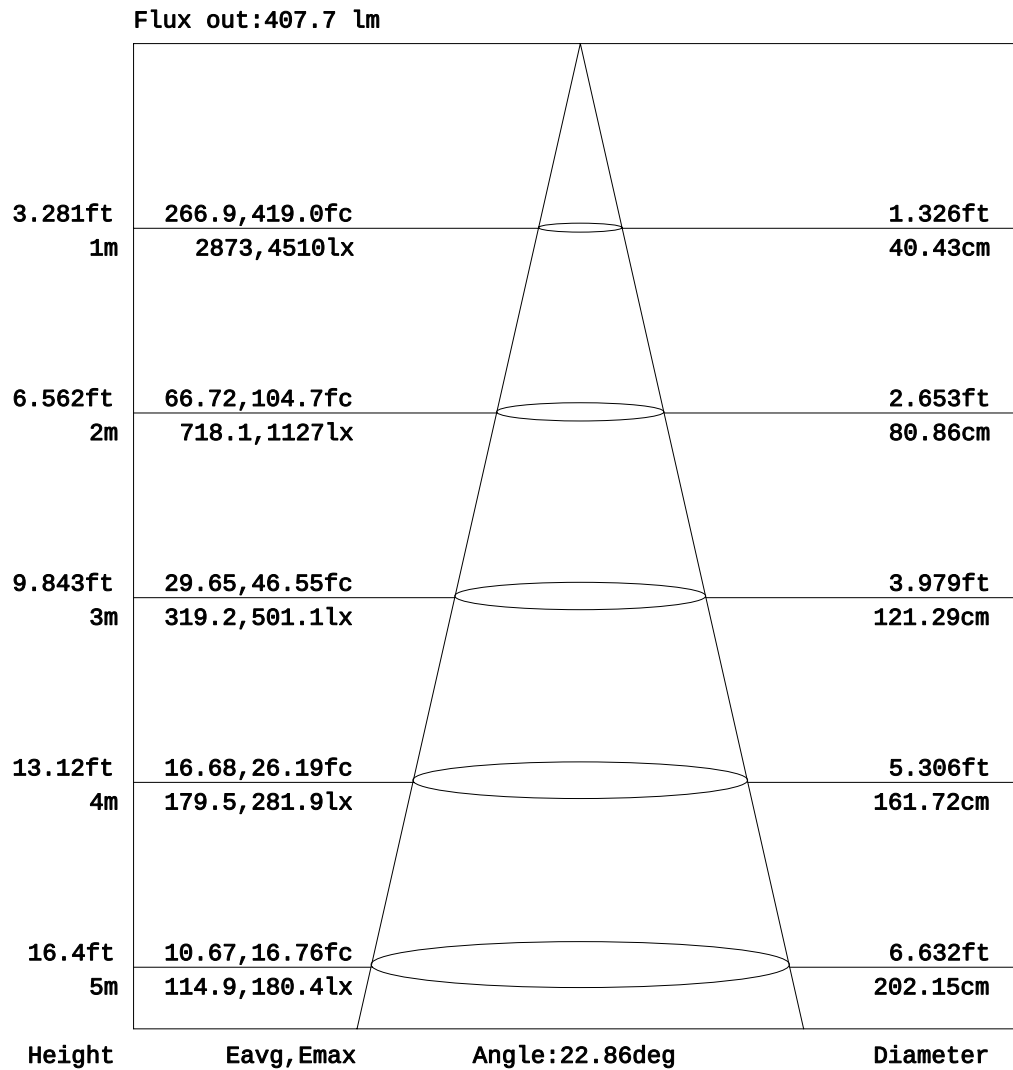


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

AAI Figure

NAME: zoom55-3000k-Ra90-20D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:



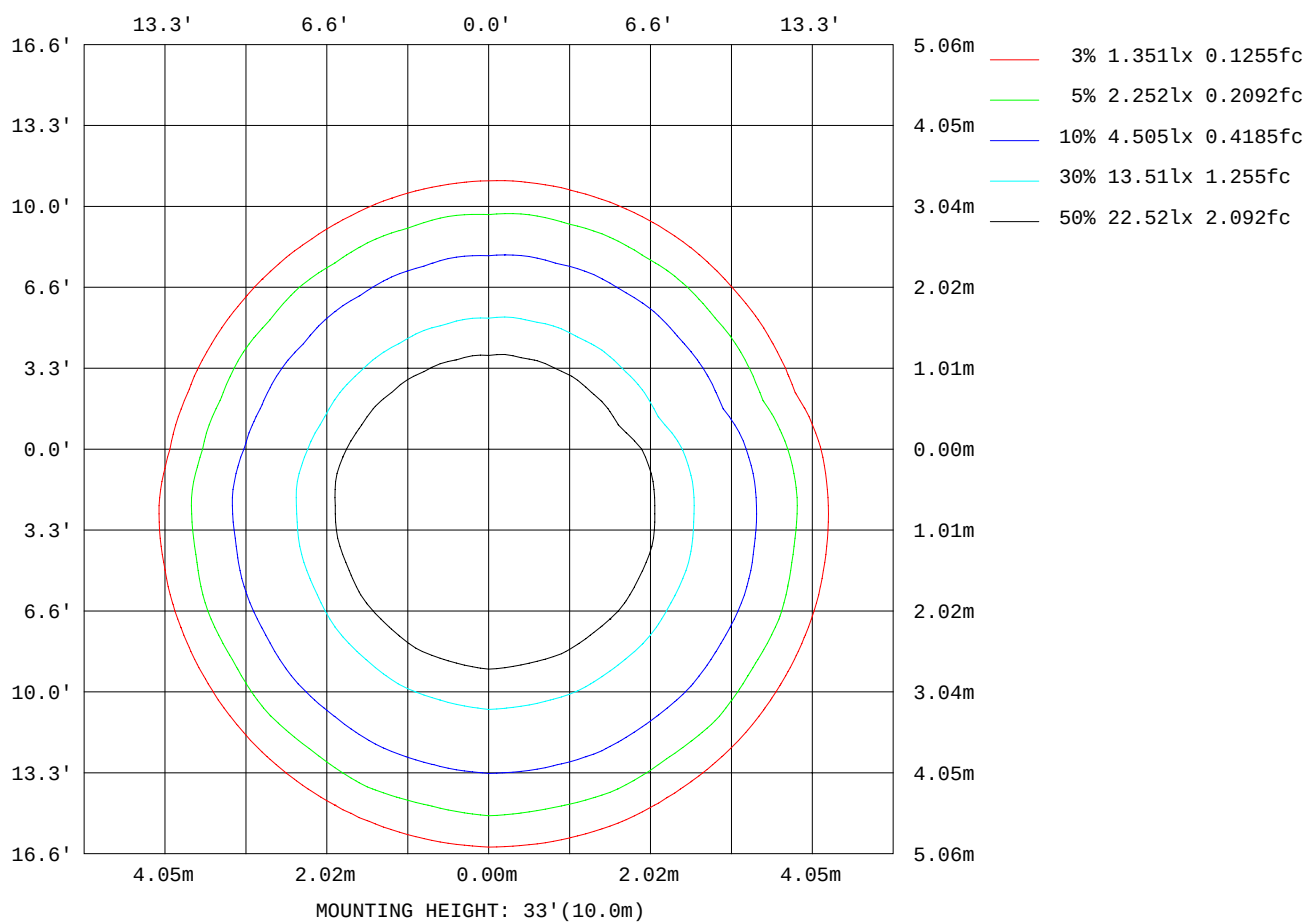
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

NAME: zoom55-3000k-Ra90-20D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

Average Luminance Table(CIBSE)

NAME: zoom55-3000k-Ra90-20D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

Parameter description for average Luminance	Symbol	Value	Unit
Luminance in Azimuth Plane	Bc	refer Table 2	cd/sq.m.
Intensity at angle Gamma in given azimuth plane	I	from data	cd/klm
Number of lamps	N	1	
Output of each lamp(initial lumens as specified)	F	751.736	lm
Multiplying factor	K	1	
Luminous area in horizontal plane used in calculations	A	0.1	sq.m.
Angle to the downward vertical from light centre	Gamma	from data	deg

Table 1. Calculation parameters for determination of CIBSE LG3:1996 Average Luminance

G	C plane(deg)																		
deg	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
55	77	82	84	86	89	90	92	94	95	95	95	93	91	89	88	84	81	79	75
60	67	71	75	78	79	81	82	84	86	86	84	82	80	78	77	75	72	71	69
65	67	67	71	71	74	71	70	72	74	74	75	70	69	72	80	76	67	70	64
70	63	65	68	71	74	70	70	71	76	78	79	72	72	69	72	70	64	64	36
75	0	7	11	13	18	32	40	54	55	61	46	34	21	18	29	26	1	0	0
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 2. Average Luminance(cd/sq.m.) for defined C plane,Gamma angle

CIBSE Category	Gamma (deg)	Average Luminance		Patch Luminance	
		maximum calculated	specified maximum	maximum measured	specified maximum
Category 1	55 to 90	95	200	---	500
Category 2	65 to 90	80	200	---	500
Category 3	75 to 90	61	200	---	500

Table 3. Tabulation of Average and Patch Luminance(cd/sq.m.) for defined CIBSE categories

No match

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

Average Luminance Table(CIBSE)

NAME: zoom55-3000k-Ra90-20D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

Parameter description for average Luminance	Symbol	Value	Unit
Luminance in Azimuth Plane	Bc	refer Table 2	cd/sq.m.
Intensity at angle Gamma in given azimuth plane	I	from data	cd/klm
Number of lamps	N	1	
Output of each lamp(initial lumens as specified)	F	751.736	lm
Multiplying factor	K	1	
Luminous area in horizontal plane used in calculations	A	0.1	sq.m.
Angle to the downward vertical from light centre	Gamma	from data	deg

Table 1. Calculation parameters for determination of CIBSE LG3:2001 Average Luminance

G	C plane(deg)																		
deg	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
55	77	82	84	86	89	90	92	94	95	95	95	93	91	89	88	84	81	79	75
60	67	71	75	78	79	81	82	84	86	86	84	82	80	78	77	75	72	71	69
65	67	67	71	71	74	71	70	72	74	74	75	70	69	72	80	76	67	70	64
70	63	65	68	71	74	70	70	71	76	78	79	72	72	69	72	70	64	64	36
75	0	7	11	13	18	32	40	54	55	61	46	34	21	18	29	26	1	0	0
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 2. Average Luminance(cd/sq.m.) for defined C plane,Gamma angle

range (deg)	Maximum measured	Average Luminance(cd/sq.m)			
		Maximum limit for screen type & software category used			
		Type I,II screen Some neg.s'ware	Type I,II screen Only pos.s'ware	Type III screen Some neg.s'ware	Type III screen Only pos.s'ware
55 to 90	95	1000	1500	200	500
65 to 90	80	1000	1500	200	500

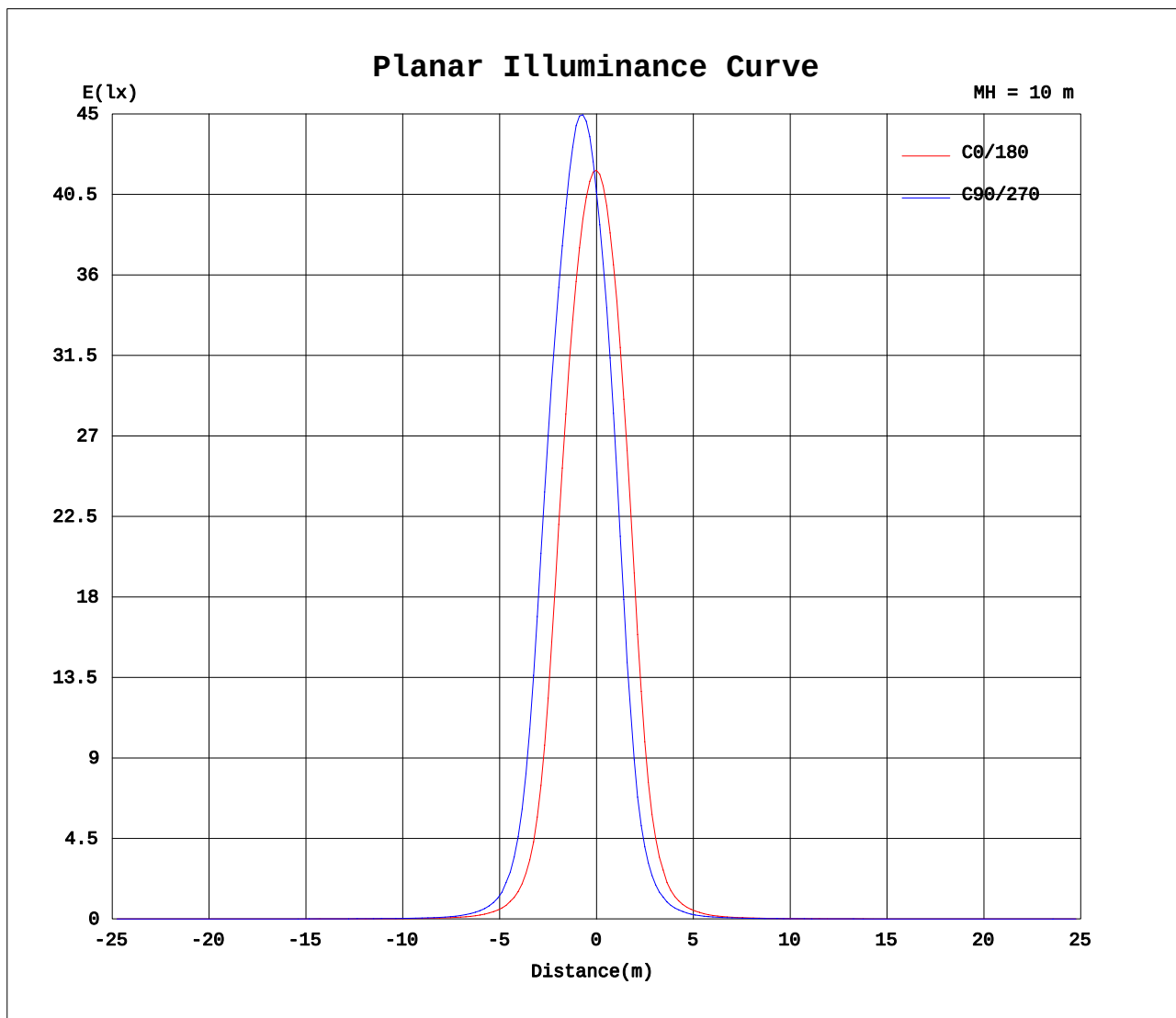
Table 3. Tabulation of average luminance(cd/sq.m.) and luminance limits

The luminaire satisfies the specified luminance criteria for
Negative Software with Type I & II Screen(Good to Moderate treatment).

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: zoom55-3000k-Ra90-20D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C(°)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	4186	4175	4169	4148	4145	4119	4120	4091	4094	4066	4073	4047	4055	4036	4042	4027	4034	4032	4186
5	3794	3949	4073	4211	4314	4414	4479	4538	4553	4540	4502	4443	4354	4246	4127	4023	3892	3780	3700
10	2639	2936	3156	3401	3574	3755	3843	3931	3935	3939	3871	3790	3639	3503	3289	3100	2873	2692	2393
15	1079	1346	1577	1882	2076	2320	2428	2577	2594	2650	2545	2454	2214	2022	1731	1523	1284	1093	849
20	308	386	464	576	669	787	854	946	962	979	909	849	735	647	533	456	375	330	246
25	103	123	146	165	189	214	235	254	262	276	250	234	211	188	163	143	122	109	88.9
30	42.8	50.5	56.0	62.6	68.3	75.8	80.5	86.8	88.0	89.9	86.2	83.1	76.1	70.7	63.5	58.2	51.2	45.9	37.8
35	20.1	22.5	24.5	27.2	29.4	32.1	33.6	35.7	36.0	36.7	35.5	34.6	32.0	29.9	27.2	25.1	22.7	21.2	18.7
40	11.8	12.9	13.8	14.8	15.5	16.5	16.9	17.4	17.6	17.8	17.5	17.1	16.2	15.5	14.4	13.7	12.9	12.3	11.2
45	7.80	8.32	8.70	9.22	9.58	10.1	10.2	10.5	10.6	10.7	10.5	10.3	9.89	9.60	9.05	8.69	8.26	8.07	7.47
50	5.76	6.05	6.27	6.48	6.68	6.90	7.01	7.16	7.16	7.19	7.09	6.98	6.84	6.72	6.49	6.25	6.08	5.93	5.55
55	4.44	4.69	4.82	4.96	5.10	5.17	5.27	5.38	5.43	5.47	5.43	5.36	5.24	5.13	5.02	4.83	4.65	4.50	4.27
60	3.35	3.57	3.73	3.88	3.97	4.04	4.12	4.18	4.31	4.31	4.21	4.08	4.00	3.91	3.83	3.74	3.58	3.56	3.44
65	2.84	2.82	2.99	3.02	3.12	2.99	2.96	3.03	3.13	3.14	3.15	2.98	2.93	3.04	3.40	3.22	2.83	2.95	2.69
70	2.15	2.24	2.34	2.41	2.53	2.40	2.38	2.44	2.59	2.68	2.70	2.47	2.46	2.38	2.45	2.39	2.19	2.20	1.23
75	0.00	0.18	0.28	0.34	0.47	0.83	1.03	1.39	1.44	1.57	1.19	0.87	0.54	0.46	0.74	0.68	0.03	0.00	0.00
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	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	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	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	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	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	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	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	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	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.13
145	0.30	0.26	0.17	0.18	0.10	0.12	0.06	0.09	0.05	0.09	0.05	0.11	0.08	0.15	0.13	0.21	0.21	0.30	0.47
150	0.97	0.86	0.72	0.66	0.55	0.53	0.45	0.46	0.42	0.45	0.43	0.50	0.50	0.59	0.63	0.73	0.81	0.94	1.15
155	2.01	1.82	1.65	1.54	1.41	1.33	1.26	1.23	1.18	1.20	1.22	1.27	1.32	1.43	1.52	1.65	1.78	1.94	2.16
160	3.21	3.02	2.84	2.70	2.56	2.47	2.38	2.34	2.30	2.31	2.33	2.39	2.46	2.57	2.69	2.82	2.97	3.13	3.32
165	4.28	4.15	3.99	3.89	3.75	3.68	3.59	3.56	3.53	3.54	3.55	3.61	3.66	3.76	3.83	3.97	4.07	4.20	4.30
170	4.87	4.86	4.75	4.72	4.62	4.61	4.53	4.54	4.48	4.52	4.49	4.54	4.52	4.59	4.58	4.59	4.65	4.64	4.80
175	5.00	5.03	4.96	5.00	4.94	4.96	4.90	4.93	4.86	4.89	4.82	4.82	4.76	4.72	4.69	4.65	4.67	4.68	4.95
180	5.03	5.04	5.02	5.02	4.97	4.97	4.94	4.94	4.89	4.89	4.83	4.82	4.76	4.74	4.69	4.69	4.67	4.68	5.04

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: zoom55-3000k-Ra90-20D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C(°)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
γ (°)																			
0	4175	4169	4148	4145	4119	4120	4091	4094	4066	4073	4047	4055	4036	4042	4027	4034	4032		
5	3525	3403	3248	3145	3026	2969	2893	2900	2859	2914	2919	2995	3049	3155	3233	3365	3452		
10	2082	1869	1626	1498	1351	1295	1231	1221	1215	1258	1295	1396	1469	1649	1764	1991	2146		
15	678	581	486	442	392	375	352	355	348	366	373	411	437	502	555	657	751		
20	204	176	155	141	131	122	116	116	115	120	127	132	144	156	171	195	223		
25	76.3	69.0	61.7	57.0	51.9	49.4	46.4	46.0	45.5	47.6	48.7	52.9	56.1	61.3	65.2	72.8	80.0		
30	32.8	29.7	26.8	25.1	23.3	22.4	21.4	21.3	21.2	21.9	22.3	23.3	24.3	26.3	28.1	31.1	33.7		
35	17.0	15.8	14.7	14.0	13.2	12.7	12.3	12.2	12.2	12.5	12.7	13.2	13.8	14.6	15.4	16.5	17.4		
40	10.3	9.84	9.26	8.94	8.52	8.25	7.95	7.95	7.97	8.15	8.24	8.51	8.72	9.09	9.41	9.89	10.4		
45	7.08	6.82	6.56	6.35	6.20	6.03	5.92	5.91	6.03	6.14	6.17	6.31	6.40	6.50	6.69	6.90	7.15		
50	5.28	5.15	5.04	4.87	4.84	4.69	4.58	4.59	4.75	4.78	4.82	4.88	4.88	4.94	5.09	5.21	5.43		
55	4.13	4.11	4.10	3.90	3.92	3.78	3.58	3.70	3.87	3.80	3.85	3.82	3.77	3.80	3.95	4.00	4.17		
60	3.31	3.32	3.36	3.26	3.27	3.15	3.09	3.20	3.39	3.41	3.29	3.17	3.15	3.00	3.08	3.09	3.21		
65	2.52	2.59	2.66	2.49	2.64	2.46	2.22	2.39	2.65	2.64	2.62	2.51	2.38	2.43	2.54	2.51	2.59		
70	0.61	0.67	0.56	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.30	0.39	0.40	0.33	1.14		
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
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	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	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	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	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	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	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	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	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	0.00	0.00	0.00	0.00	0.00		
135	0.00	0.03	0.00	0.06	0.02	0.08	0.05	0.10	0.05	0.09	0.03	0.07	0.01	0.04	0.00	0.02	0.00		
140	0.12	0.20	0.19	0.28	0.28	0.35	0.34	0.39	0.35	0.38	0.32	0.32	0.24	0.24	0.16	0.17	0.10		
145	0.52	0.65	0.70	0.82	0.87	0.96	0.98	1.03	1.00	1.00	0.94	0.89	0.79	0.73	0.62	0.57	0.45		
150	1.29	1.45	1.57	1.72	1.82	1.92	1.98	2.01	2.01	1.98	1.90	1.82	1.70	1.58	1.44	1.32	1.17		
155	2.34	2.54	2.69	2.85	2.97	3.08	3.14	3.19	3.17	3.15	3.07	2.98	2.84	2.71	2.54	2.39	2.22		
160	3.48	3.67	3.81	3.95	4.03	4.13	4.15	4.21	4.19	4.17	4.08	4.03	3.91	3.80	3.66	3.52	3.35		
165	4.39	4.52	4.56	4.66	4.66	4.72	4.70	4.65	4.70	4.71	4.63	4.64	4.54	4.47	4.44	4.39	4.27		
170	4.79	4.83	4.78	4.81	4.78	4.76	4.75	4.71	4.72	4.68	4.64	4.58	4.58	4.55	4.57	4.57	4.56		
175	4.90	4.92	4.88	4.86	4.79	4.81	4.78	4.75	4.71	4.67	4.63	4.59	4.55	4.55	4.55	4.57	4.57		
180	5.04	5.03	4.99	4.99	4.95	4.96	4.91	4.91	4.86	4.86	4.79	4.78	4.70	4.70	4.65	4.66	4.67		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
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Humidity:65.0%
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