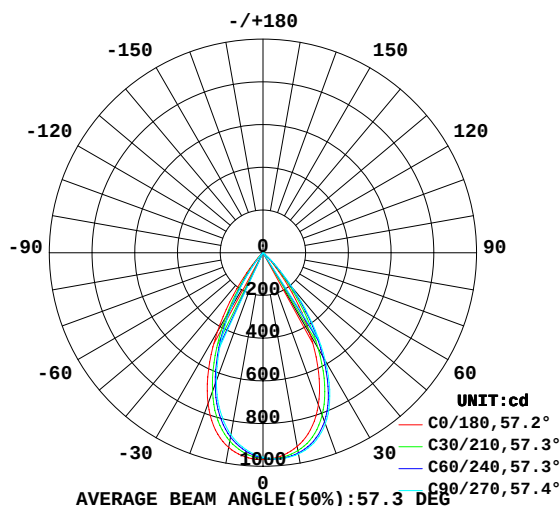


LUMINAIRE PHOTOMETRIC TEST REPORT

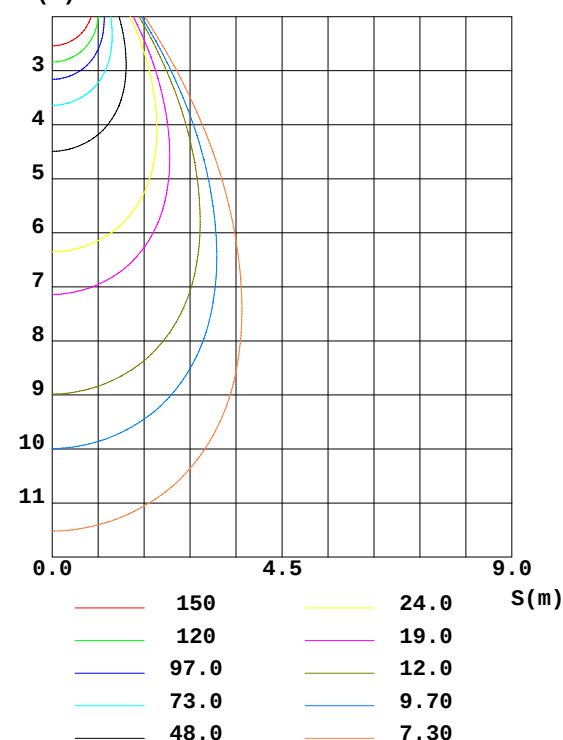
NAME: CL-Zoom55-u1s 3000k-Ra90-60D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 77.92 lm/W			
MODEL		I _{max} (cd)	968.5	S/MH(C0/180)	0.87
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	0.97
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	804.11	η UP, DN(C0-180)	0.2, 57.9
NOMINAL FLUX(lm)	804.114	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.2, 41.8
LAMPS INSIDE	1	η up(%)	0.4	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	24	η down(%)	99.6	CIBSE SHR MAX	0.90

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	921.0	947.5	956.3	943.7	925.6	884.7	865.5	874.9	0- 10	89.39	89.39	11.1,11.1
20	758.7	827.5	852.9	820.7	752.7	670.4	638.6	668.4	10- 20	236.4	325.7	40.5,40.5
30	441.4	542.8	584.1	532.4	427.2	328.6	299.3	339.7	20- 30	273.7	599.4	74.5,74.5
40	116.3	186.6	217.1	177.1	97.02	51.15	40.51	58.04	30- 40	163.0	762.4	94.8,94.8
50	8.095	16.55	21.50	14.37	5.640	2.581	2.417	3.339	40- 50	35.15	797.6	99.2,99.2
60	1.129	1.440	1.621	1.163	0.8623	0.6274	0.6754	0.7456	50- 60	2.902	800.5	99.5,99.5
70	0.5337	0.5073	0.4952	0.4248	0.1880	0.0777	0.0951	0.2121	60- 70	0.6218	801.1	99.6,99.6
80	0	0	0	0	0	0	0	0	70- 80	0.1035	801.2	99.6,99.6
90	0	0	0	0	0	0	0	0	80- 90	0	801.2	99.6,99.6
100	0	0	0	0	0	0	0	0	90-100	0	801.2	99.6,99.6
110	0	0	0	0	0	0	0	0	100-110	0	801.2	99.6,99.6
120	0	0	0	0	0	0.0025	0	0.0024	110-120	0.0002	801.2	99.6,99.6
130	0.1505	0.0778	0.0757	0.0919	0.2411	0.3304	0.3582	0.3304	120-130	0.0637	801.3	99.6,99.6
140	0.7070	0.5496	0.5150	0.5709	0.7890	0.9510	1.009	0.9321	130-140	0.3479	801.6	99.7,99.7
150	1.425	1.246	1.199	1.251	1.487	1.671	1.746	1.642	140-150	0.6815	802.3	99.8,99.8
160	2.156	1.982	1.935	1.954	2.219	2.374	2.444	2.343	150-160	0.8276	803.1	99.9,99.9
170	2.836	2.706	2.657	2.664	2.889	2.952	2.977	2.926	160-170	0.7010	803.8	100,100
180	3.185	3.145	3.119	3.110	3.195	3.150	3.134	3.122	170-180	0.2830	804.1	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

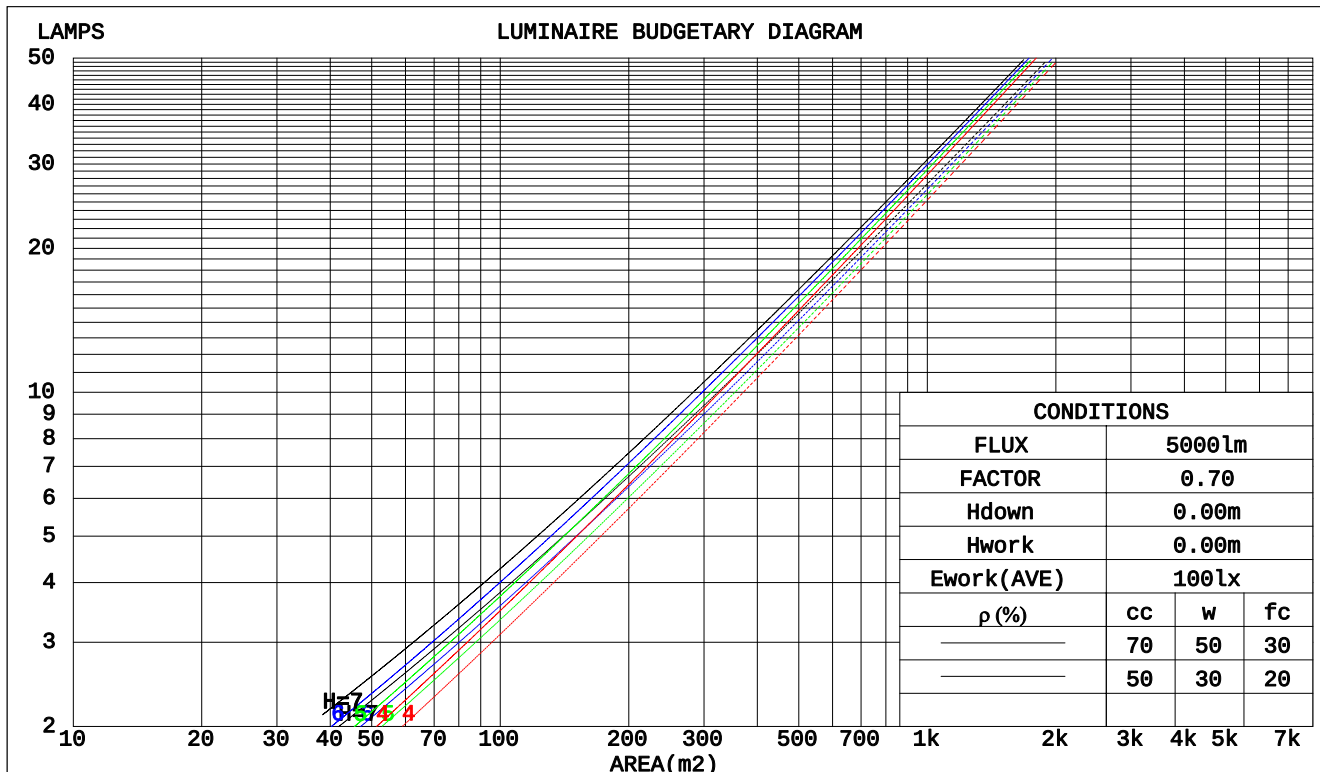
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-11

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-Ra90-60D	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	1.11	1.09	1.06	1.09	1.07	1.05	1.05	1.03	1.01	1.01	.99	.98	.97	.96	.95	.94
2.0	1.04	.99	.96	1.02	.98	.95	.99	.96	.93	.95	.93	.91	.93	.91	.89	.87
3.0	.97	.92	.88	.95	.91	.87	.93	.89	.86	.90	.87	.85	.88	.85	.83	.82
4.0	.91	.85	.81	.90	.85	.81	.87	.83	.80	.85	.82	.79	.83	.80	.78	.76
5.0	.85	.79	.75	.84	.79	.75	.82	.78	.74	.81	.77	.74	.79	.76	.73	.71
6.0	.80	.74	.70	.79	.74	.70	.78	.73	.69	.76	.72	.69	.75	.71	.68	.67
7.0	.75	.70	.66	.75	.69	.65	.73	.69	.65	.72	.68	.65	.71	.67	.64	.63
8.0	.71	.65	.61	.71	.65	.61	.70	.65	.61	.68	.64	.61	.68	.63	.60	.59
9.0	.67	.62	.58	.67	.61	.58	.66	.61	.57	.65	.60	.57	.64	.60	.57	.56
10.0	.64	.58	.54	.63	.58	.54	.63	.58	.54	.62	.57	.54	.61	.57	.54	.53



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-Ra90-60D	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 Coeffcients(WEC)										
0.0																	
1.0	.173	.098	.031	.166	.095	.030	.153	.088	.028	.142	.082	.026	.131	.076	.024		
2.0	.165	.091	.028	.160	.088	.027	.149	.083	.026	.139	.078	.024	.130	.073	.023		
3.0	.158	.084	.025	.153	.082	.025	.144	.078	.024	.135	.074	.023	.127	.070	.022		
4.0	.150	.078	.023	.146	.077	.023	.138	.073	.022	.131	.070	.021	.124	.067	.021		
5.0	.144	.073	.021	.140	.072	.021	.133	.069	.020	.127	.067	.020	.121	.064	.019		
6.0	.137	.069	.020	.134	.068	.020	.128	.066	.019	.122	.064	.019	.117	.062	.018		
7.0	.132	.065	.018	.129	.064	.018	.123	.062	.018	.118	.061	.018	.113	.059	.017		
8.0	.126	.062	.017	.124	.061	.017	.119	.059	.017	.114	.058	.017	.110	.056	.016		
9.0	.121	.059	.016	.119	.058	.016	.114	.057	.016	.110	.055	.016	.106	.054	.016		
10.0	.116	.056	.015	.114	.055	.015	.110	.054	.015	.107	.053	.015	.103	.052	.015		

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	.174	.160	.148	.149	.137	.127	.102	.095	.088	.058	.055	.051	.019	.018	.017	
2.0	.158	.135	.116	.135	.116	.100	.093	.081	.070	.054	.047	.041	.017	.015	.013	
3.0	.146	.116	.093	.125	.100	.081	.086	.070	.057	.050	.041	.033	.016	.013	.011	
4.0	.135	.102	.076	.116	.088	.066	.080	.061	.046	.046	.036	.027	.015	.012	.009	
5.0	.127	.090	.063	.109	.078	.055	.075	.054	.039	.043	.032	.023	.014	.010	.008	
6.0	.119	.081	.053	.103	.070	.046	.071	.049	.033	.041	.029	.019	.013	.009	.006	
7.0	.113	.073	.045	.097	.063	.039	.067	.044	.028	.039	.026	.017	.013	.009	.005	
8.0	.107	.067	.039	.092	.058	.034	.064	.041	.024	.037	.024	.014	.012	.008	.005	
9.0	.102	.062	.034	.088	.054	.030	.061	.038	.021	.036	.022	.013	.012	.007	.004	
10.0	.098	.057	.030	.084	.050	.027	.058	.035	.019	.034	.021	.011	.011	.007	.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-Ra90-60D						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	8.5	9.4	8.7	9.6	9.8	10.2	11.1	10.5	11.3	11.5					
3H	8.3	9.2	8.6	9.4	9.6	10.1	10.9	10.3	11.1	11.3					
4H	8.3	9.1	8.5	9.3	9.5	10.0	10.8	10.2	11.0	11.2					
6H	8.2	8.9	8.5	9.2	9.4	9.9	10.6	10.2	10.9	11.1					
8H	8.1	8.8	8.4	9.1	9.4	9.8	10.5	10.1	10.8	11.1					
12H	8.1	8.8	8.4	9.0	9.3	9.8	10.5	10.1	10.7	11.0					
4H 2H	8.3	9.1	8.5	9.3	9.5	10.0	10.8	10.2	11.0	11.2					
3H	8.1	8.8	8.4	9.0	9.3	9.8	10.5	10.1	10.7	11.0					
4H	8.0	8.6	8.3	8.9	9.2	9.7	10.3	10.0	10.6	10.9					
6H	7.9	8.4	8.3	8.8	9.1	9.6	10.1	10.0	10.5	10.8					
8H	7.8	8.3	8.2	8.7	9.1	9.5	10.0	9.9	10.4	10.8					
12H	7.8	8.2	8.2	8.6	9.0	9.5	10.0	9.9	10.3	10.7					
8H 4H	7.8	8.3	8.2	8.7	9.1	9.5	10.0	9.9	10.4	10.8					
6H	7.7	8.1	8.2	8.5	9.0	9.4	9.9	9.9	10.3	10.7					
8H	7.7	8.0	8.1	8.5	8.9	9.4	9.7	9.8	10.2	10.6					
12H	7.6	7.9	8.1	8.4	8.9	9.3	9.6	9.8	10.1	10.6					
12H 4H	7.8	8.2	8.2	8.6	9.0	9.5	10.0	9.9	10.3	10.7					
6H	7.7	8.0	8.1	8.5	8.9	9.4	9.7	9.8	10.2	10.6					
8H	7.6	7.9	8.1	8.4	8.9	9.3	9.6	9.8	10.1	10.6					
Variations with the observer position at spacings:															
S = 1.0H	+ 2.8 / -21.3					+ 3.5 / -21.7									
1.5H	+ 5.3 / -16.7					+ 5.9 / -18.8									
2.0H	+ 7.2 / -13.0					+ 8.2 / -16.4									

CIE Pub.117 Corrected 804.1 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.8)

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-Ra90-60D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

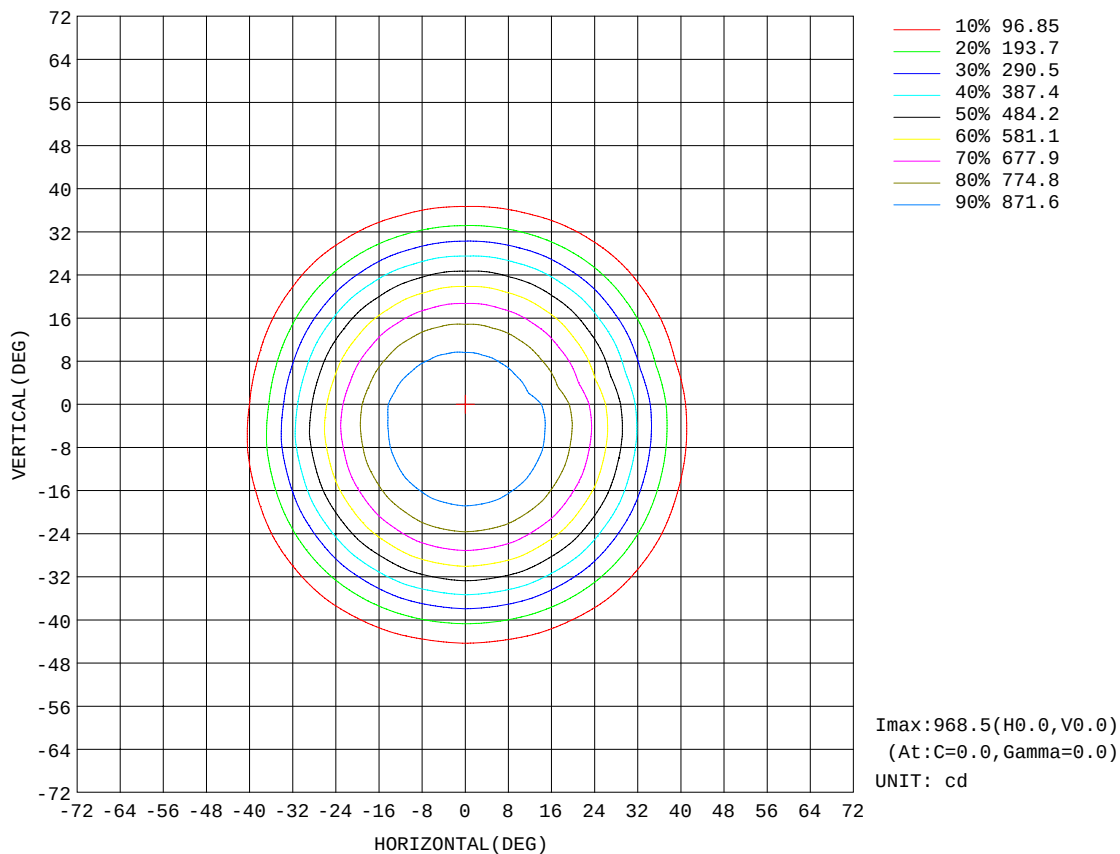
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	88	82	78	88	82	78	87	82	78	75
0.80	96	90	86	95	90	86	94	89	86	82
1.00	100	95	91	99	94	91	98	94	90	86
1.25	104	99	96	103	98	95	101	97	94	90
1.50	106	102	99	105	101	98	103	100	97	93
2.00	109	105	102	108	104	101	105	102	100	94
2.50	111	107	104	109	106	103	106	103	101	95
3.00	112	109	106	110	107	105	107	105	103	96
4.00	114	111	109	112	110	108	108	106	105	98
5.00	115	113	111	113	111	110	109	108	106	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-Ra90-60D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

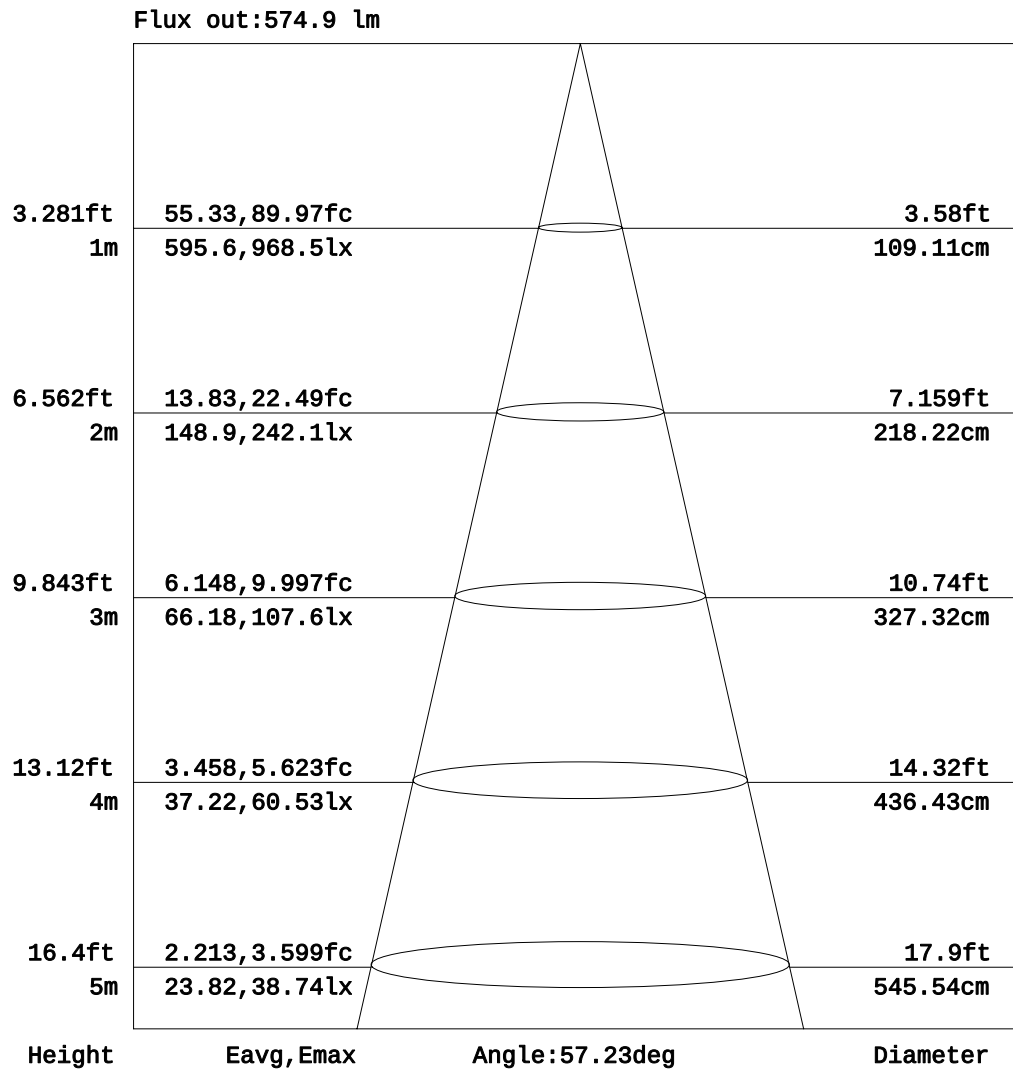


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-11

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-Ra90-60D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:



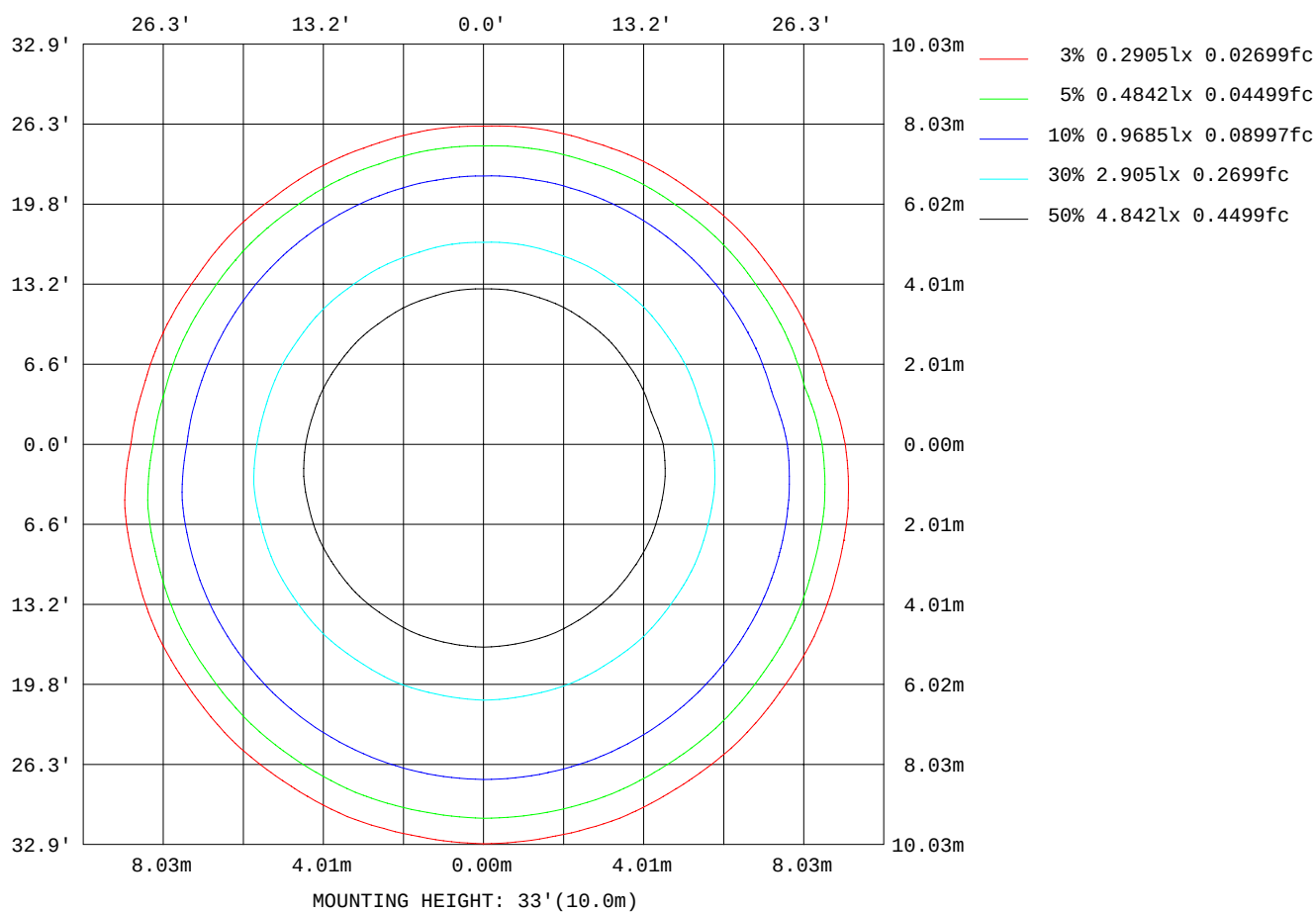
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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-Ra90-60D	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-Ra90-60D	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	804.114	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	41	53	59	63	63	68	73	79	78	79	78	77	65	57	46	41	35	34	31
60	23	28	30	30	29	29	31	33	33	32	34	34	29	25	22	20	19	18	17
65	17	20	19	18	19	18	20	21	21	19	20	19	19	16	15	13	13	12	11
70	16	18	16	15	16	14	16	15	16	14	15	13	15	12	13	10	11	9	5
75	0	2	6	7	8	7	9	8	10	9	10	6	9	6	5	1	0	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	79	200	---	500
Category 2	65 to 90	21	200	---	500
Category 3	75 to 90	10	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-Ra90-60D	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	804.114	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	41	53	59	63	63	68	73	79	78	79	78	77	65	57	46	41	35	34	31
60	23	28	30	30	29	29	31	33	33	32	34	34	29	25	22	20	19	18	17
65	17	20	19	18	19	18	20	21	21	19	20	19	19	16	15	13	13	12	11
70	16	18	16	15	16	14	16	15	16	14	15	13	15	12	13	10	11	9	5
75	0	2	6	7	8	7	9	8	10	9	10	6	9	6	5	1	0	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	79	1000	1500	200	500
65 to 90	21	1000	1500	200	500

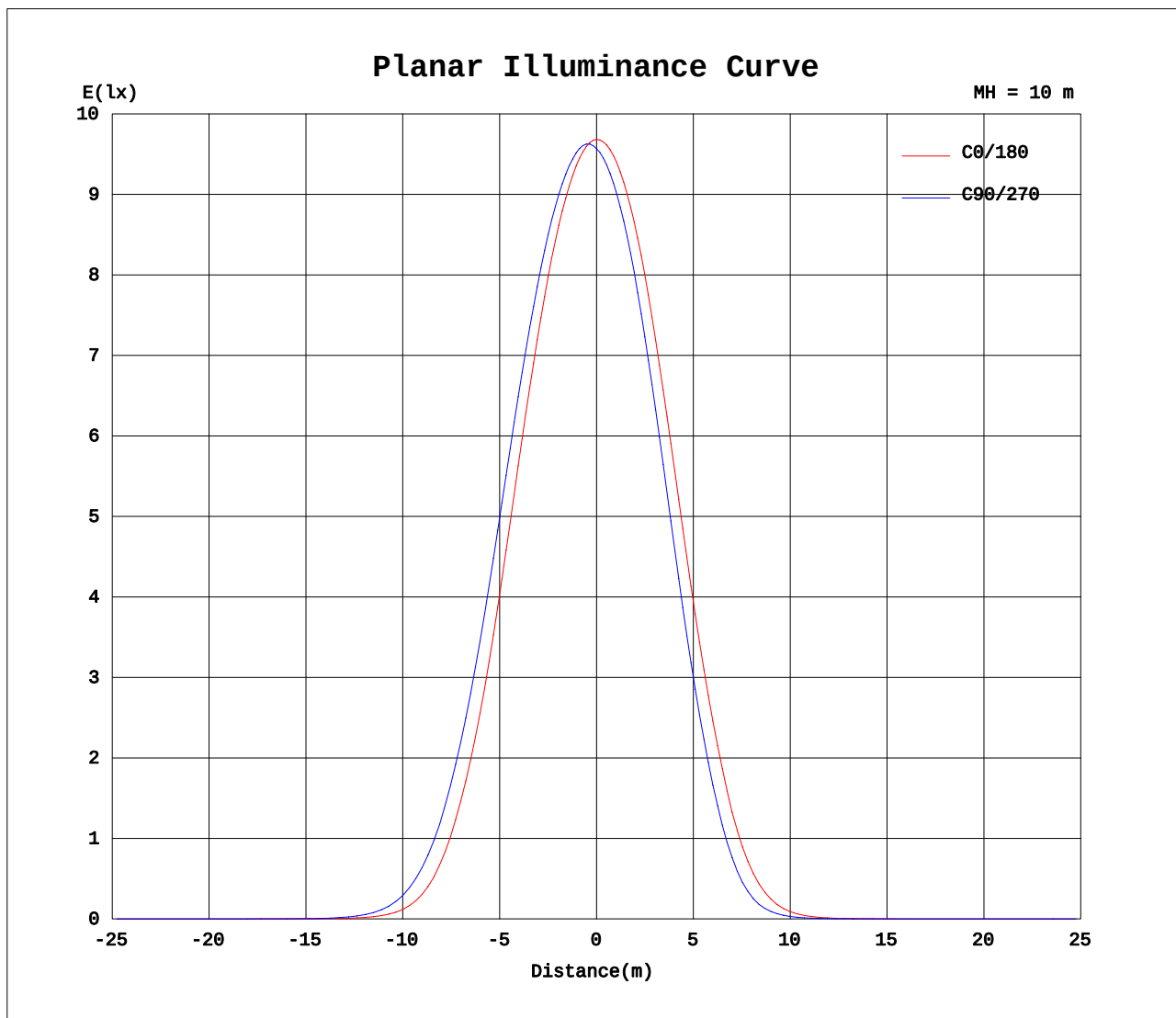
Table 3. Tabulation of average luminance(cd/sq.m.) and luminance limits

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-Ra90-60D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C(°) γ (°)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	968	967	966	964	963	962	961	959	959	957	957	955	955	954	954	953	953	952	968
5	956	958	960	963	964	966	967	968	968	968	967	966	964	961	958	956	952	949	959
10	921	929	935	941	945	950	952	955	956	956	955	954	950	947	941	935	928	922	926
15	858	872	882	894	901	909	914	918	920	922	919	917	911	905	895	887	874	865	860
20	759	779	793	810	821	834	841	849	851	853	849	846	836	828	813	801	784	770	753
25	616	642	662	683	698	716	725	736	738	741	736	732	717	705	687	672	649	631	603
30	441	471	491	517	532	553	563	578	579	584	577	572	555	543	522	506	480	462	427
35	267	292	312	335	350	370	380	394	396	401	392	388	372	361	339	324	299	280	241
40	116	135	151	167	180	193	204	211	216	217	214	207	197	184	170	155	138	122	97.0
45	33.9	42.2	48.4	56.8	62.2	70.4	74.4	80.3	81.1	83.0	79.6	77.8	70.7	65.2	56.4	49.9	41.3	35.9	26.1
50	8.09	10.4	12.0	14.0	15.4	17.7	18.8	20.8	20.8	21.5	20.4	19.9	17.5	15.7	13.0	11.2	8.95	7.75	5.64
55	2.34	3.03	3.40	3.62	3.62	3.91	4.16	4.53	4.50	4.53	4.49	4.42	3.75	3.25	2.64	2.38	2.03	1.94	1.78
60	1.13	1.40	1.52	1.50	1.45	1.43	1.55	1.67	1.65	1.62	1.71	1.68	1.47	1.23	1.10	1.00	0.93	0.88	0.86
65	0.72	0.83	0.81	0.77	0.79	0.76	0.84	0.87	0.88	0.81	0.86	0.82	0.79	0.66	0.64	0.56	0.55	0.49	0.48
70	0.53	0.60	0.55	0.51	0.53	0.48	0.54	0.51	0.53	0.50	0.52	0.44	0.51	0.42	0.43	0.36	0.36	0.31	0.19
75	0.00	0.05	0.15	0.17	0.22	0.17	0.24	0.21	0.26	0.22	0.26	0.16	0.23	0.15	0.12	0.02	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	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	0.01	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	0.02	0.07
130	0.15	0.17	0.09	0.12	0.06	0.09	0.04	0.08	0.03	0.08	0.04	0.09	0.06	0.11	0.08	0.14	0.11	0.17	0.24
135	0.39	0.39	0.32	0.33	0.26	0.28	0.23	0.27	0.21	0.25	0.23	0.28	0.24	0.31	0.28	0.35	0.34	0.40	0.48
140	0.71	0.70	0.61	0.60	0.54	0.56	0.49	0.53	0.48	0.52	0.49	0.54	0.51	0.58	0.56	0.63	0.62	0.69	0.79
145	1.06	1.04	0.96	0.94	0.88	0.88	0.83	0.85	0.80	0.84	0.80	0.86	0.83	0.90	0.89	0.96	0.96	1.04	1.13
150	1.42	1.42	1.33	1.32	1.24	1.25	1.19	1.22	1.16	1.20	1.17	1.21	1.19	1.26	1.25	1.31	1.30	1.38	1.49
155	1.79	1.78	1.69	1.69	1.61	1.62	1.55	1.57	1.52	1.56	1.53	1.57	1.54	1.60	1.58	1.65	1.64	1.72	1.86
160	2.16	2.15	2.06	2.06	1.98	1.98	1.92	1.94	1.90	1.94	1.89	1.93	1.91	1.96	1.94	2.01	1.99	2.07	2.22
165	2.52	2.52	2.42	2.43	2.35	2.37	2.30	2.32	2.27	2.30	2.26	2.30	2.28	2.33	2.31	2.37	2.36	2.43	2.58
170	2.84	2.84	2.76	2.78	2.69	2.72	2.65	2.67	2.62	2.66	2.61	2.66	2.62	2.68	2.65	2.72	2.69	2.77	2.89
175	3.06	3.09	3.01	3.03	2.96	2.99	2.93	2.97	2.92	2.95	2.91	2.95	2.92	2.97	2.93	2.99	2.96	3.03	3.12
180	3.19	3.19	3.16	3.16	3.14	3.15	3.13	3.14	3.12	3.12	3.11	3.12	3.11	3.11	3.11	3.11	3.11	3.13	3.19

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-Ra90-60D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C(°) γ (°)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	967	966	964	963	962	961	959	959	957	957	955	955	954	954	953	953	952		
5	953	949	943	939	934	932	928	927	925	924	924	925	925	928	929	932	935		
10	914	906	896	889	881	877	871	869	865	867	867	870	872	877	881	889	894		
15	842	830	814	805	793	786	778	775	770	774	774	781	786	794	801	814	823		
20	729	712	691	679	662	654	644	643	639	644	645	656	662	675	685	702	715		
25	574	555	530	516	497	488	478	477	473	480	482	495	503	520	531	552	567		
30	397	376	352	338	319	313	302	300	299	304	309	323	331	348	360	381	396		
35	217	196	179	165	154	146	141	139	139	142	148	156	165	178	192	208	225		
40	80.8	70.8	60.1	54.5	47.8	45.3	41.8	41.6	40.5	43.3	44.9	49.9	54.1	62.0	68.7	79.4	88.9		
45	20.6	17.4	14.2	12.4	10.6	9.97	9.23	9.20	9.12	10.1	10.8	12.0	13.0	15.2	17.1	20.7	23.9		
50	4.70	4.09	3.22	2.77	2.39	2.39	2.40	2.33	2.42	2.83	3.08	3.20	3.17	3.51	3.88	4.66	5.40		
55	1.77	1.59	1.37	1.15	1.08	1.09	1.20	1.08	1.14	1.23	1.35	1.36	1.37	1.32	1.44	1.51	1.69		
60	0.86	0.75	0.75	0.63	0.63	0.59	0.68	0.61	0.68	0.67	0.73	0.72	0.77	0.73	0.81	0.78	0.87		
65	0.48	0.39	0.47	0.40	0.45	0.39	0.46	0.42	0.48	0.44	0.48	0.48	0.54	0.50	0.57	0.53	0.60		
70	0.15	0.04	0.09	0.06	0.09	0.05	0.09	0.06	0.10	0.09	0.13	0.14	0.23	0.20	0.26	0.24	0.33		
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	0.01	0.00	0.02	0.00	0.03	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00		
125	0.05	0.11	0.08	0.14	0.11	0.17	0.13	0.18	0.14	0.17	0.12	0.16	0.10	0.13	0.07	0.09	0.03		
130	0.22	0.29	0.28	0.34	0.32	0.38	0.35	0.40	0.36	0.40	0.35	0.38	0.33	0.34	0.27	0.27	0.21		
135	0.48	0.56	0.55	0.61	0.62	0.68	0.65	0.70	0.66	0.69	0.64	0.66	0.59	0.61	0.54	0.54	0.47		
140	0.80	0.88	0.87	0.95	0.95	1.02	1.00	1.04	1.01	1.04	0.99	1.00	0.93	0.93	0.86	0.86	0.78		
145	1.14	1.24	1.23	1.31	1.32	1.37	1.36	1.42	1.38	1.41	1.35	1.36	1.29	1.29	1.22	1.20	1.13		
150	1.50	1.59	1.58	1.67	1.67	1.74	1.72	1.78	1.75	1.77	1.71	1.72	1.64	1.64	1.57	1.55	1.47		
155	1.85	1.94	1.95	2.03	2.02	2.10	2.08	2.14	2.09	2.12	2.06	2.07	2.00	1.99	1.91	1.90	1.81		
160	2.21	2.29	2.29	2.37	2.37	2.45	2.42	2.48	2.44	2.47	2.41	2.42	2.34	2.35	2.26	2.26	2.17		
165	2.56	2.64	2.63	2.71	2.69	2.76	2.73	2.79	2.75	2.78	2.73	2.74	2.67	2.67	2.59	2.61	2.52		
170	2.87	2.93	2.90	2.96	2.94	3.01	2.97	3.02	2.98	3.02	2.95	2.98	2.92	2.94	2.87	2.89	2.81		
175	3.09	3.13	3.09	3.14	3.11	3.15	3.11	3.12	3.11	3.12	3.10	3.13	3.08	3.11	3.05	3.09	3.03		
180	3.18	3.19	3.15	3.15	3.15	3.15	3.14	3.14	3.13	3.13	3.13	3.13	3.12	3.12	3.11	3.11	3.13		

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: