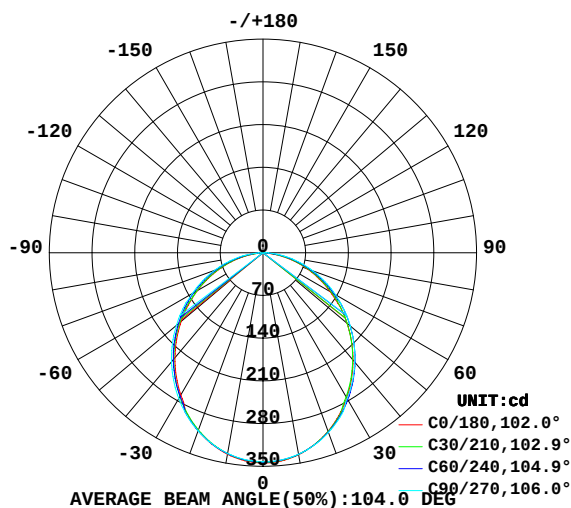


LUMINAIRE PHOTOMETRIC TEST REPORT

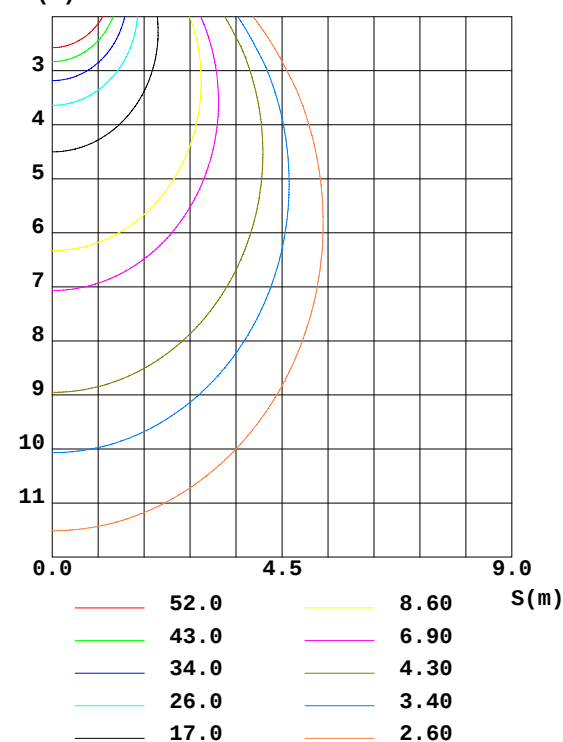
NAME:CL-Out32 3000k-RA90	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 65.26 lm/W			
MODEL		Imax(cd)	344.5	S/MH(C0/180)	1.19
NOMINAL POWER(W)	13	LOR(%)	100.0	S/MH(C90/270)	1.21
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	892.82	η UP, DN(C0-180)	0.1, 50.3
NOMINAL FLUX(lm)	892.824	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.2, 49.4
LAMPS INSIDE	1	η up(%)	0.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	24	η down(%)	99.7	CIBSE SHR MAX	1.35

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:2022-04-03

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	336.0	335.5	335.3	334.2	335.3	334.2	333.9	333.2	0- 10	32.32	32.32	3.62, 3.62
20	311.4	312.3	313.4	310.9	310.1	309.8	310.7	309.1	10- 20	91.40	123.7	13.9, 13.9
30	274.5	275.2	276.1	273.6	269.3	271.9	276.0	271.3	20- 30	135.2	258.9	29, 29
40	229.6	231.7	234.1	230.1	224.5	228.0	233.1	227.6	30- 40	157.7	416.6	46.7, 46.7
50	179.9	183.2	186.8	181.7	175.1	179.5	185.5	179.4	40- 50	158.7	575.3	64.4, 64.4
60	127.0	131.7	137.1	130.1	124.0	128.0	133.8	128.3	50- 60	139.2	714.6	80, 80
70	76.98	81.52	87.40	79.92	73.84	78.08	84.63	78.66	60- 70	103.7	818.3	91.7, 91.7
80	28.34	33.74	39.83	32.29	25.45	30.64	37.70	31.35	70- 80	59.07	877.4	98.3, 98.3
90	0	0	0	0	0	0	0.0075	0	80- 90	12.79	890.2	99.7, 99.7
100	0.0140	0.0401	0.0850	0.0401	0.0662	0.0590	0.0565	0.0566	90-100	0.0140	890.2	99.7, 99.7
110	0.1461	0.1841	0.2314	0.1887	0.2077	0.2052	0.2074	0.2029	100-110	0.1270	890.3	99.7, 99.7
120	0.3160	0.3539	0.4013	0.3515	0.3777	0.3752	0.3821	0.3728	110-120	0.2764	890.6	99.7, 99.7
130	0.5000	0.5333	0.5806	0.5356	0.5618	0.5615	0.5614	0.5498	120-130	0.4083	891.0	99.8, 99.8
140	0.6746	0.7102	0.7505	0.7031	0.7364	0.7292	0.7313	0.7268	130-140	0.4886	891.5	99.8, 99.8
150	0.8398	0.8753	0.9062	0.8613	0.9015	0.8872	0.8824	0.8872	140-150	0.5010	892.0	99.9, 99.9
160	1.000	1.012	1.038	0.9981	1.048	1.022	1.005	1.019	150-160	0.4373	892.4	100, 100
170	1.109	1.121	1.142	1.111	1.166	1.123	1.109	1.122	160-170	0.3024	892.7	100, 100
180	1.175	1.166	1.156	1.156	1.185	1.163	1.156	1.154	170-180	0.1089	892.8	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

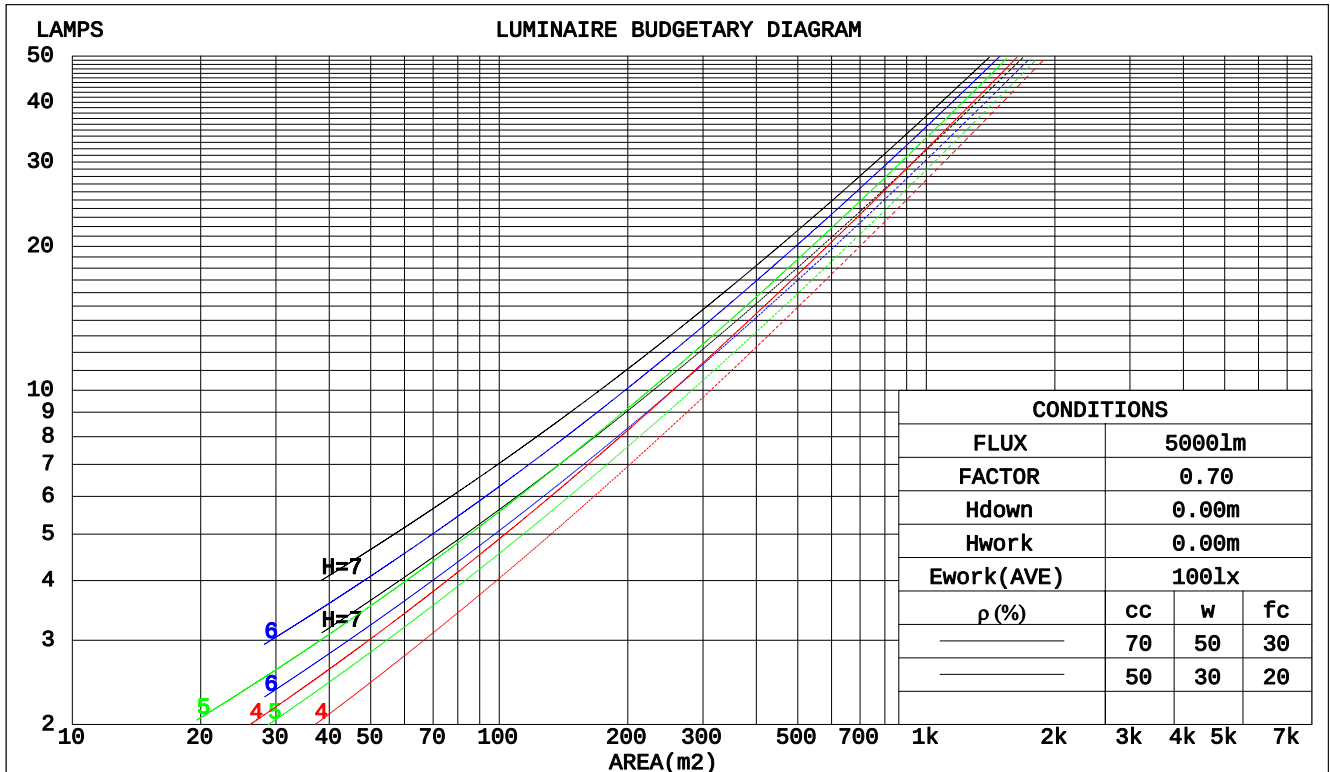
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-03

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: Out32-3000k-RA90	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	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	1.04	1.00	.96	1.02	.98	.95	.98	.95	.92	.94	.91	.89	.90	.88	.86	.84
2.0	.91	.84	.79	.89	.83	.78	.86	.80	.76	.82	.78	.74	.79	.76	.73	.70
3.0	.80	.72	.66	.79	.71	.65	.76	.69	.64	.73	.67	.63	.70	.66	.62	.60
4.0	.71	.63	.56	.70	.62	.56	.67	.60	.55	.65	.59	.54	.63	.58	.53	.51
5.0	.64	.55	.48	.63	.54	.48	.60	.53	.48	.58	.52	.47	.57	.51	.46	.44
6.0	.58	.49	.42	.57	.48	.42	.55	.47	.42	.53	.46	.41	.51	.46	.41	.39
7.0	.52	.44	.37	.51	.43	.37	.50	.42	.37	.48	.42	.37	.47	.41	.36	.34
8.0	.48	.39	.34	.47	.39	.33	.46	.38	.33	.44	.38	.33	.43	.37	.33	.31
9.0	.44	.36	.30	.43	.35	.30	.42	.35	.30	.41	.34	.30	.40	.34	.30	.28
10.0	.41	.33	.27	.40	.32	.27	.39	.32	.27	.38	.32	.27	.37	.31	.27	.25



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-03

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: Out32-3000k-RA90	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	.300	.170	.054	.293	.167	.053	.279	.160	.051	.267	.154	.049	.256	.148	.048		
2.0	.284	.156	.048	.278	.153	.047	.266	.148	.046	.255	.143	.045	.245	.139	.044		
3.0	.264	.140	.042	.258	.138	.042	.248	.134	.041	.238	.131	.040	.229	.127	.039		
4.0	.244	.127	.037	.239	.125	.037	.230	.122	.036	.221	.119	.036	.213	.116	.035		
5.0	.226	.115	.033	.222	.114	.033	.214	.111	.033	.206	.109	.032	.199	.106	.032		
6.0	.210	.105	.030	.206	.104	.030	.199	.102	.030	.192	.100	.029	.186	.098	.029		
7.0	.196	.097	.027	.192	.096	.027	.186	.094	.027	.180	.092	.027	.174	.090	.027		
8.0	.183	.089	.025	.180	.089	.025	.174	.087	.025	.169	.085	.025	.163	.084	.024		
9.0	.172	.083	.023	.169	.082	.023	.164	.081	.023	.159	.080	.023	.154	.078	.023		
10.0	.162	.077	.022	.159	.077	.021	.154	.076	.021	.150	.074	.021	.146	.073	.021		

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	.112	.112	.112	.065	.065	.065	.021	.021	.021		
1.0	.182	.159	.137	.156	.136	.118	.106	.094	.082	.061	.054	.048	.020	.017	.015		
2.0	.174	.134	.101	.149	.116	.088	.102	.080	.061	.059	.047	.036	.019	.015	.012		
3.0	.166	.117	.077	.142	.101	.067	.097	.070	.047	.056	.041	.028	.018	.013	.009		
4.0	.158	.103	.061	.136	.089	.053	.093	.062	.038	.054	.036	.022	.017	.012	.007		
5.0	.150	.093	.050	.129	.080	.044	.089	.056	.031	.052	.033	.018	.017	.011	.006		
6.0	.143	.084	.042	.123	.073	.037	.085	.051	.026	.049	.030	.015	.016	.010	.005		
7.0	.137	.077	.036	.118	.067	.031	.081	.047	.022	.047	.028	.013	.015	.009	.004		
8.0	.130	.072	.031	.112	.062	.027	.078	.044	.019	.045	.026	.012	.015	.008	.004		
9.0	.124	.067	.028	.107	.058	.024	.074	.041	.017	.043	.024	.010	.014	.008	.003		
10.0	.119	.062	.025	.102	.054	.022	.071	.038	.016	.041	.023	.009	.013	.007	.003		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-03

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:

Uncorrected UGR Table

NAME: Out32-3000k-RA90						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						
x = 2H y = 2H						Viewed endwise						
3H						16.2	17.6	16.4	17.9	18.1	16.5	18.0
4H						17.6	18.9	17.9	19.2	19.4	18.0	19.4
6H						18.1	19.4	18.4	19.7	19.9	18.7	20.0
8H						18.4	19.7	18.8	20.0	20.2	19.2	20.4
12H						18.5	19.7	18.8	20.0	20.3	19.3	20.5
						18.5	19.6	18.8	19.9	20.2	19.4	20.6
4H 2H						16.8	18.1	17.1	18.3	18.6	17.0	18.3
3H						18.4	19.5	18.7	19.8	20.1	18.8	19.9
4H						19.0	20.1	19.4	20.4	20.7	19.5	20.6
6H						19.5	20.4	19.9	20.8	21.1	20.2	21.1
8H						19.6	20.4	20.0	20.8	21.2	20.4	21.3
12H						19.6	20.4	20.0	20.8	21.2	20.6	21.4
8H 4H						19.3	20.2	19.7	20.5	20.9	19.8	20.6
6H						19.9	20.6	20.3	21.0	21.5	20.6	21.3
8H						20.0	20.7	20.5	21.1	21.6	20.9	21.5
12H						20.1	20.6	20.6	21.1	21.6	21.1	21.6
12H 4H						19.3	20.1	19.8	20.5	20.9	19.8	20.6
6H						20.0	20.6	20.4	21.0	21.5	20.6	21.2
8H						20.1	20.7	20.6	21.1	21.6	20.9	21.5
Variations with the observer position at spacings:												
S = 1.0H						+ 0.2 / - 0.2				+ 0.2 / - 0.2		
1.5H						+ 0.2 / - 0.3				+ 0.2 / - 0.3		
2.0H						+ 0.2 / - 0.3				+ 0.2 / - 0.2		

CIE Pub.117 Corrected 892.8 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.4)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-03

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: Out32-3000k-RA90	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

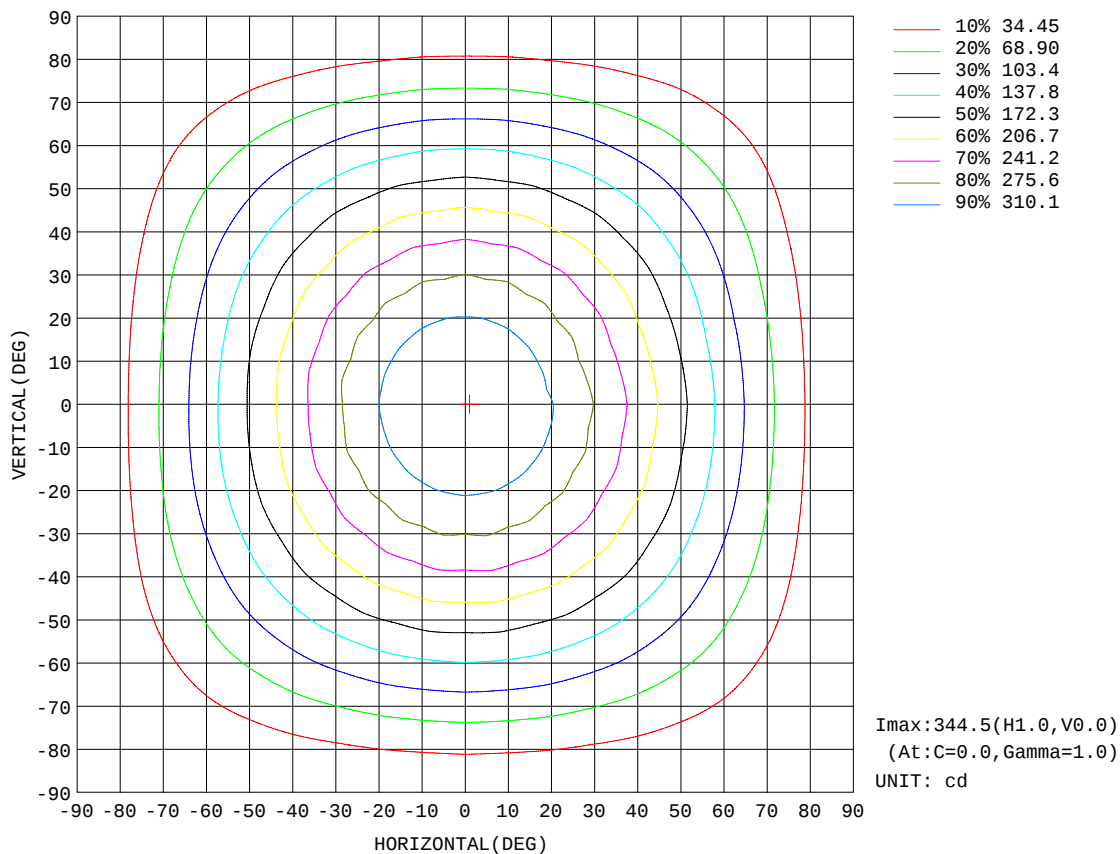
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	59	47	40	58	47	40	57	47	40	34
0.80	69	57	50	68	57	50	66	56	50	43
1.00	77	66	59	76	66	59	74	67	58	51
1.25	84	74	67	83	73	66	80	72	66	58
1.50	89	79	73	87	78	72	84	77	71	63
2.00	96	87	81	94	86	80	90	84	79	71
2.50	99	92	86	97	91	85	94	88	83	75
3.00	103	96	91	101	95	90	97	92	87	79
4.00	107	101	97	104	99	95	100	96	93	84
5.00	109	104	100	107	102	99	102	99	96	87
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: 2022-04-03

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: Out32-3000k-RA90	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

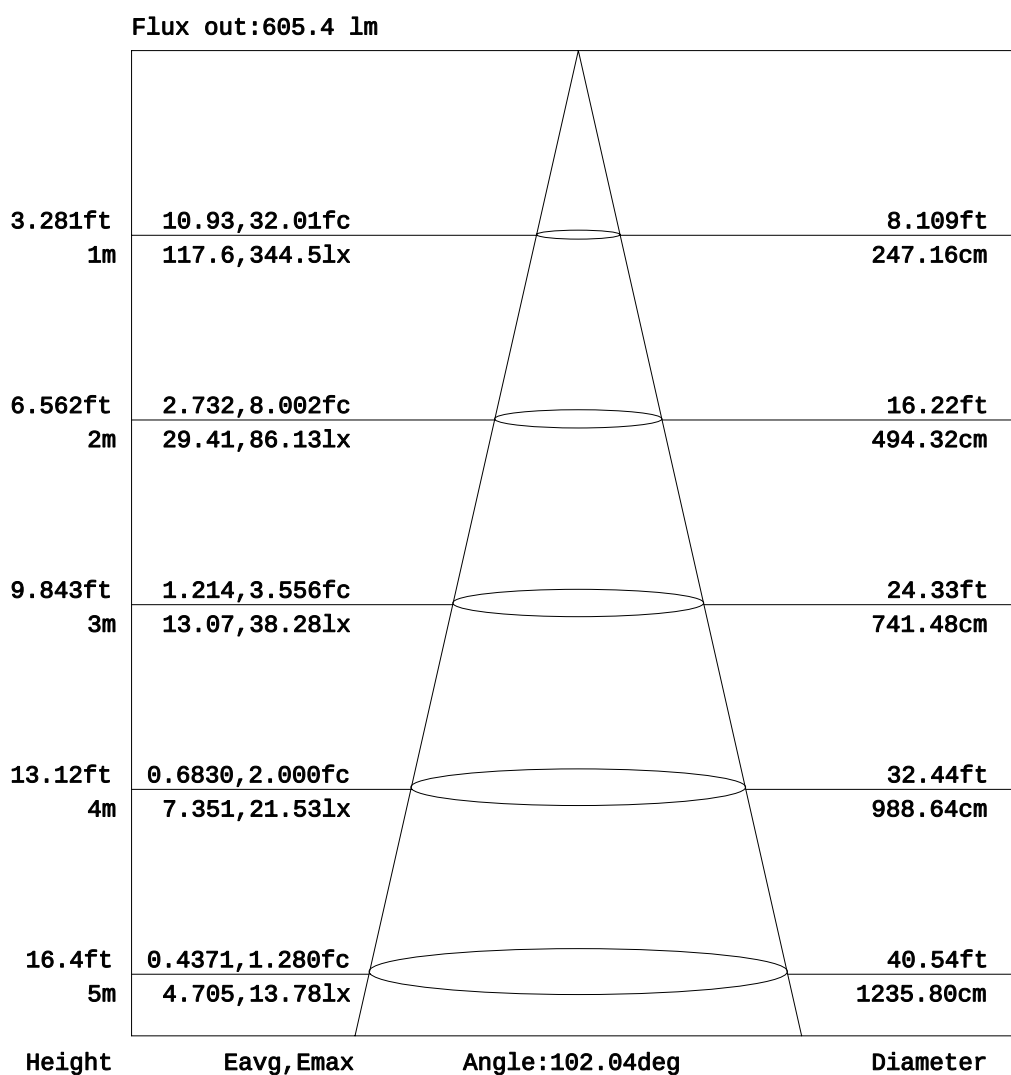


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-03

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: Out32-3000k-RA90	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:



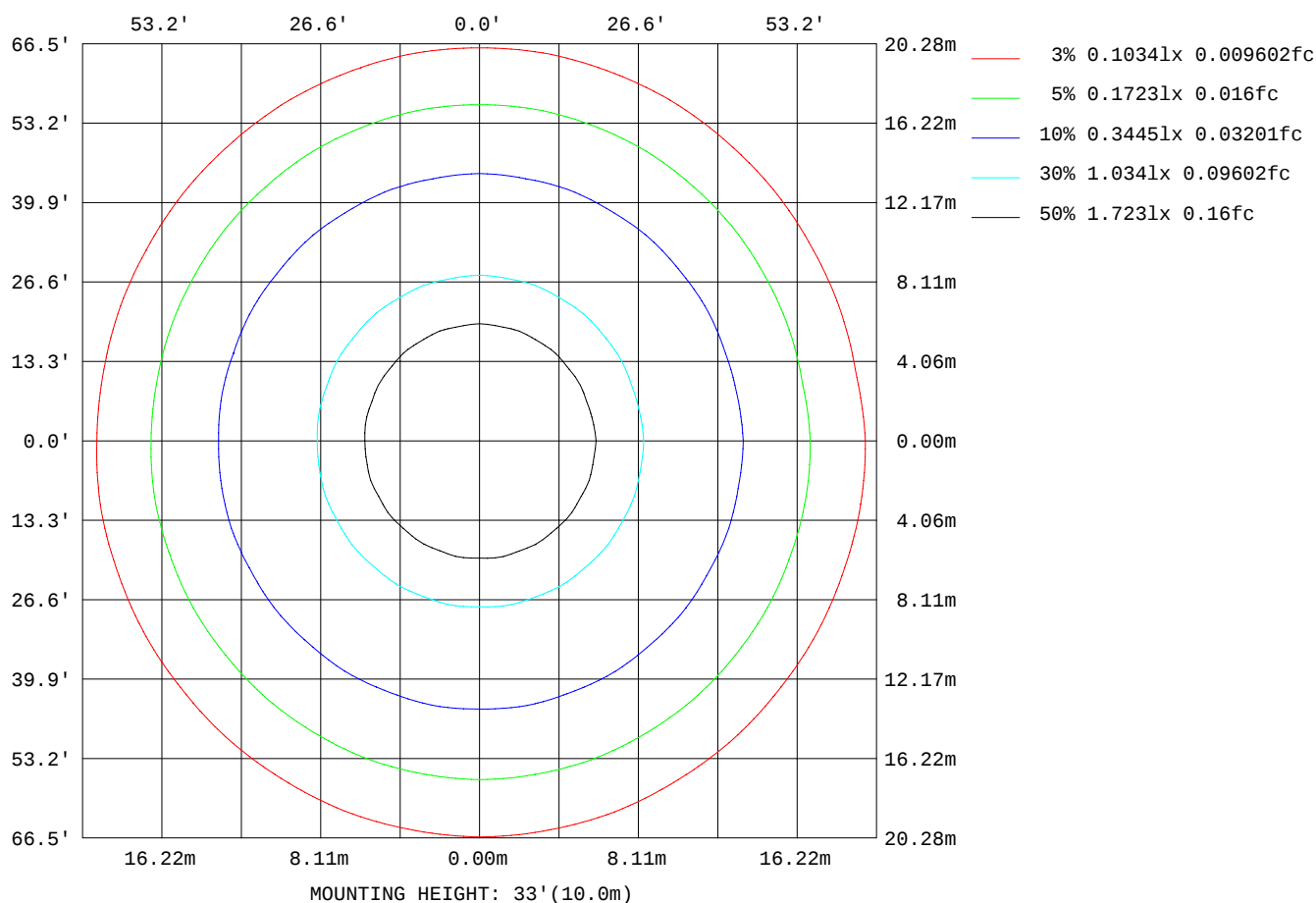
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-03

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: Out32-3000k-RA90	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: 2022-04-03

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: Out32-3000k-RA90	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	892.824	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 deg	C plane(deg)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
55	2690	2668	2705	2701	2753	2757	2810	2808	2849	2827	2841	2793	2790	2730	2723	2671	2673	2637	2608
60	2541	2554	2557	2591	2612	2657	2681	2720	2728	2743	2719	2702	2655	2626	2578	2557	2521	2518	2481
65	2409	2424	2429	2468	2492	2544	2574	2624	2635	2653	2623	2603	2545	2508	2452	2427	2388	2383	2334
70	2251	2272	2276	2324	2352	2415	2452	2516	2532	2555	2518	2489	2415	2371	2303	2273	2225	2222	2159
75	2048	2073	2078	2136	2169	2251	2299	2384	2411	2442	2392	2347	2251	2194	2106	2072	2013	2010	1917
80	1632	1672	1697	1802	1879	2007	2074	2198	2246	2294	2216	2144	2004	1925	1794	1729	1634	1618	1466
85	575	646	680	865	1002	1293	1504	1811	1902	2010	1841	1702	1402	1206	926	799	620	600	344

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	2849	200	---	500
Category 2	65 to 90	2653	200	---	500
Category 3	75 to 90	2442	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:2022-04-03

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: Out32-3000k-RA90	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	892.824	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 deg	C plane(deg)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
55	2690	2668	2705	2701	2753	2757	2810	2808	2849	2827	2841	2793	2790	2730	2723	2671	2673	2637	2608
60	2541	2554	2557	2591	2612	2657	2681	2720	2728	2743	2719	2702	2655	2626	2578	2557	2521	2518	2481
65	2409	2424	2429	2468	2492	2544	2574	2624	2635	2653	2623	2603	2545	2508	2452	2427	2388	2383	2334
70	2251	2272	2276	2324	2352	2415	2452	2516	2532	2555	2518	2489	2415	2371	2303	2273	2225	2222	2159
75	2048	2073	2078	2136	2169	2251	2299	2384	2411	2442	2392	2347	2251	2194	2106	2072	2013	2010	1917
80	1632	1672	1697	1802	1879	2007	2074	2198	2246	2294	2216	2144	2004	1925	1794	1729	1634	1618	1466
85	575	646	680	865	1002	1293	1504	1811	1902	2010	1841	1702	1402	1206	926	799	620	600	344

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	2849	1000	1500	200	500
65 to 90	2653	1000	1500	200	500

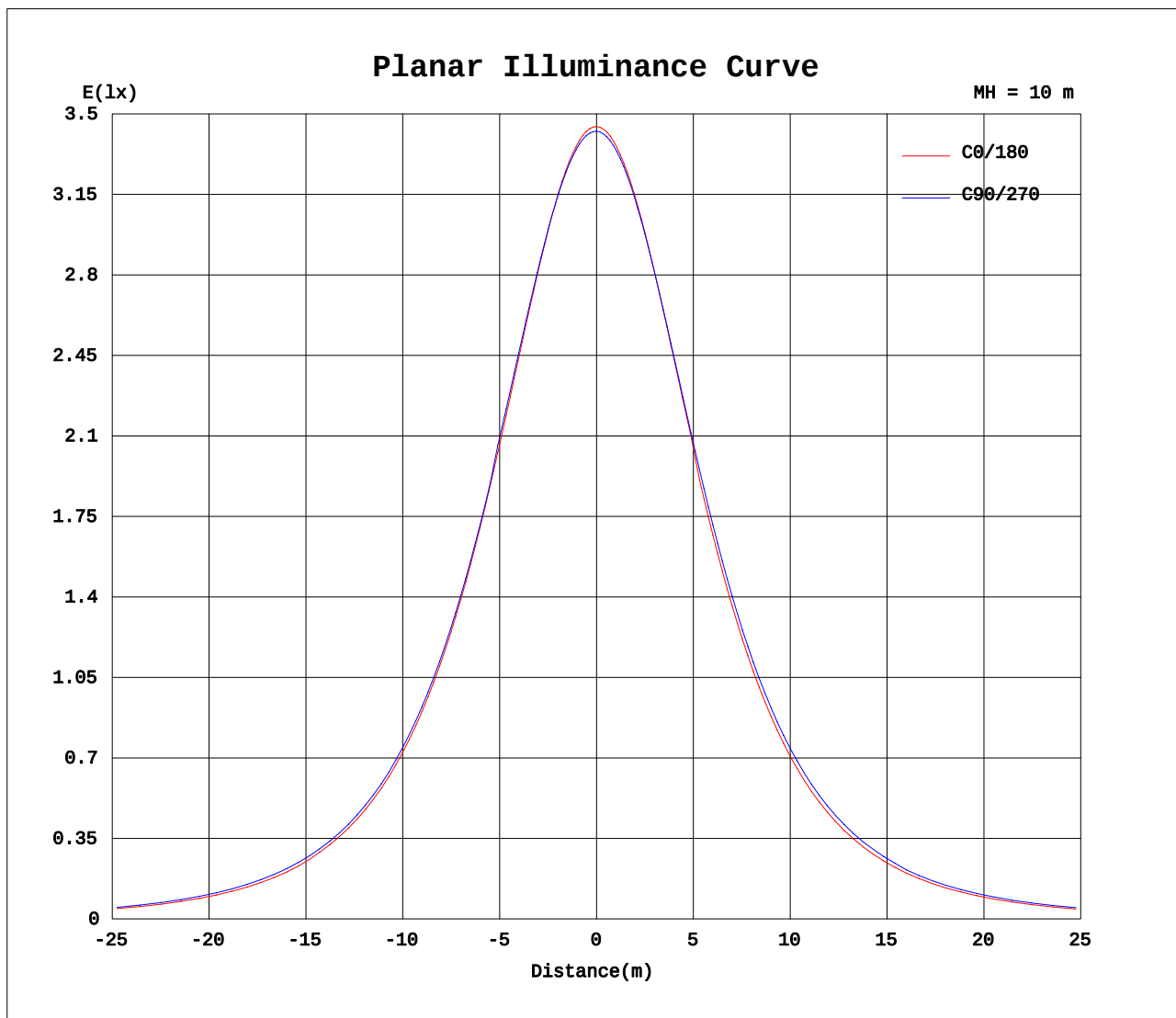
Table 3. Tabulation of average luminance(cd/sq.m.) and luminance limits

No match

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-03

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: 2022-04-03

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: Out32-3000k-RA90	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	345	344	344	343	343	343	343	343	343	343	342	342	342	342	342	342	342	342	345
5	342	342	342	342	341	341	341	341	341	341	341	341	340	340	340	340	340	340	342
10	336	336	335	336	335	336	335	336	335	335	335	335	335	334	334	334	334	334	335
15	325	325	325	325	325	326	326	326	326	326	326	325	325	325	324	324	323	323	324
20	311	312	311	312	312	313	313	313	313	313	313	313	312	311	310	310	309	309	310
25	294	295	294	295	295	297	297	298	297	298	297	297	296	295	294	294	292	292	293
30	274	272	275	272	276	274	278	276	279	276	279	275	277	273	275	271	273	269	269
35	253	250	253	251	255	253	257	255	259	256	258	255	256	252	253	250	251	248	248
40	230	227	230	229	232	231	235	233	236	234	236	233	234	230	231	227	228	225	224
45	205	203	206	205	208	208	211	210	213	211	212	209	210	206	207	203	204	201	200
50	180	178	181	180	183	183	186	186	188	187	188	185	185	182	182	178	179	176	175
55	154	153	155	155	158	158	161	161	163	162	163	160	160	157	156	153	153	151	150
60	127	128	128	130	131	133	134	136	136	137	136	135	133	131	129	128	126	126	124
65	102	102	103	104	105	107	109	111	111	112	111	110	108	106	104	103	101	101	98.6
70	77.0	77.7	77.9	79.5	80.4	82.6	83.9	86.1	86.6	87.4	86.1	85.1	82.6	81.1	78.8	77.7	76.1	76.0	73.8
75	53.0	53.7	53.8	55.3	56.1	58.3	59.5	61.7	62.4	63.2	61.9	60.8	58.3	56.8	54.5	53.6	52.1	52.0	49.6
80	28.3	29.0	29.5	31.3	32.6	34.8	36.0	38.2	39.0	39.8	38.5	37.2	34.8	33.4	31.1	30.0	28.4	28.1	25.4
85	5.02	5.63	5.93	7.54	8.73	11.3	13.1	15.8	16.6	17.5	16.0	14.8	12.2	10.5	8.07	6.96	5.40	5.23	3.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	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	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.01
100	0.01	0.05	0.01	0.05	0.01	0.07	0.03	0.08	0.04	0.08	0.03	0.08	0.03	0.07	0.01	0.06	0.01	0.05	0.07
105	0.08	0.12	0.08	0.12	0.08	0.13	0.09	0.15	0.11	0.15	0.11	0.15	0.10	0.14	0.08	0.13	0.08	0.12	0.14
110	0.15	0.19	0.16	0.20	0.16	0.21	0.17	0.22	0.18	0.23	0.18	0.22	0.17	0.21	0.17	0.20	0.16	0.20	0.21
115	0.23	0.28	0.23	0.28	0.24	0.29	0.26	0.31	0.26	0.32	0.27	0.30	0.25	0.29	0.25	0.28	0.23	0.27	0.29
120	0.32	0.37	0.32	0.36	0.33	0.38	0.34	0.40	0.35	0.40	0.35	0.39	0.34	0.38	0.33	0.36	0.32	0.36	0.38
125	0.42	0.46	0.42	0.46	0.42	0.47	0.43	0.48	0.44	0.49	0.44	0.48	0.44	0.48	0.42	0.46	0.41	0.45	0.47
130	0.50	0.54	0.50	0.55	0.51	0.56	0.52	0.57	0.54	0.58	0.53	0.57	0.51	0.56	0.51	0.55	0.50	0.54	0.56
135	0.59	0.64	0.59	0.63	0.59	0.66	0.61	0.66	0.62	0.67	0.62	0.66	0.60	0.64	0.59	0.64	0.59	0.63	0.65
140	0.67	0.72	0.68	0.73	0.68	0.74	0.70	0.75	0.70	0.75	0.71	0.74	0.69	0.73	0.68	0.72	0.67	0.71	0.74
145	0.76	0.80	0.77	0.82	0.77	0.82	0.78	0.83	0.78	0.83	0.79	0.82	0.77	0.81	0.76	0.81	0.75	0.80	0.82
150	0.84	0.89	0.85	0.89	0.85	0.90	0.86	0.90	0.86	0.91	0.86	0.89	0.84	0.89	0.84	0.88	0.83	0.88	0.90
155	0.92	0.97	0.93	0.96	0.92	0.97	0.92	0.97	0.92	0.98	0.93	0.97	0.92	0.95	0.91	0.95	0.91	0.95	0.97
160	1.00	1.04	0.99	1.03	0.99	1.03	0.99	1.04	1.00	1.04	1.00	1.04	0.98	1.02	0.97	1.02	0.98	1.01	1.05
165	1.06	1.10	1.05	1.10	1.05	1.09	1.05	1.09	1.05	1.09	1.05	1.09	1.04	1.08	1.04	1.08	1.03	1.09	1.11
170	1.11	1.16	1.11	1.15	1.10	1.14	1.10	1.14	1.09	1.14	1.09	1.14	1.09	1.13	1.09	1.14	1.09	1.14	1.17
175	1.15	1.18	1.15	1.17	1.13	1.18	1.13	1.16	1.13	1.15	1.13	1.15	1.13	1.15	1.13	1.16	1.13	1.16	1.18
180	1.18	1.18	1.17	1.17	1.16	1.18	1.16	1.16	1.15	1.16	1.15	1.16	1.15	1.16	1.16	1.16	1.16	1.16	1.18

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-03

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: Out32-3000k-RA90	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C(DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	344	344	343	343	343	343	343	343	343	342	342	342	342	342	342	342	342		
5	342	341	341	341	341	341	340	340	340	340	340	340	340	340	340	340	339		
10	335	335	334	334	334	334	334	334	334	334	334	334	333	333	333	333	333		
15	324	324	323	324	324	324	324	324	324	324	324	324	323	323	322	322	322		
20	309	310	309	310	310	311	311	311	311	311	310	310	309	309	308	308	307		
25	292	292	292	293	293	294	294	295	295	295	294	294	292	292	291	291	290		
30	272	269	272	270	274	272	275	273	276	273	275	271	273	269	271	268	270		
35	250	248	251	249	253	251	255	253	255	252	254	251	252	248	250	247	249		
40	227	225	228	226	230	229	232	231	233	230	232	228	229	226	227	224	225		
45	202	200	203	203	206	205	208	207	210	207	208	205	206	202	203	200	201		
50	177	176	178	178	181	181	184	183	185	183	184	181	181	178	178	175	176		
55	151	150	153	153	156	156	159	159	161	159	159	156	156	153	153	150	151		
60	124	125	125	127	129	131	132	134	134	134	132	131	129	128	126	125	124		
65	98.3	99.4	100	102	104	106	107	109	109	109	108	106	104	103	101	99.8	98.7		
70	73.5	74.6	75.3	77.4	78.8	81.3	82.7	84.6	84.6	84.7	82.9	81.6	79.3	78.0	76.0	75.3	74.1		
75	49.4	50.6	51.3	53.3	54.7	57.2	58.6	60.7	60.8	60.8	58.9	57.6	55.3	54.1	52.2	51.5	50.3		
80	25.3	26.7	27.6	29.9	31.4	33.9	35.3	37.5	37.7	37.6	35.7	34.5	32.1	30.6	28.1	27.1	25.7		
85	2.80	3.93	4.68	6.81	8.48	11.5	13.3	15.5	15.8	15.6	13.5	11.6	8.63	7.08	4.96	4.28	3.10		
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
95	0.00	0.01	0.00	0.01	0.00	0.02	0.00	0.03	0.00	0.03	0.00	0.02	0.00	0.02	0.00	0.01	0.00		
100	0.02	0.07	0.03	0.08	0.04	0.08	0.05	0.09	0.06	0.10	0.04	0.08	0.04	0.07	0.03	0.07	0.03		
105	0.09	0.14	0.10	0.15	0.10	0.15	0.11	0.17	0.12	0.17	0.11	0.15	0.11	0.14	0.09	0.13	0.09		
110	0.17	0.21	0.17	0.23	0.18	0.24	0.19	0.25	0.21	0.24	0.20	0.23	0.18	0.22	0.17	0.20	0.16		
115	0.25	0.28	0.26	0.31	0.27	0.33	0.28	0.34	0.29	0.33	0.28	0.32	0.26	0.30	0.26	0.29	0.24		
120	0.34	0.38	0.35	0.39	0.36	0.41	0.37	0.42	0.38	0.42	0.37	0.41	0.36	0.39	0.34	0.38	0.33		
125	0.43	0.47	0.44	0.48	0.45	0.50	0.47	0.51	0.47	0.51	0.46	0.50	0.45	0.48	0.43	0.47	0.42		
130	0.52	0.56	0.52	0.58	0.54	0.59	0.55	0.60	0.56	0.60	0.55	0.59	0.53	0.57	0.52	0.56	0.52		
135	0.60	0.66	0.62	0.67	0.63	0.67	0.64	0.68	0.65	0.68	0.64	0.67	0.62	0.66	0.61	0.65	0.60		
140	0.69	0.74	0.70	0.75	0.71	0.76	0.72	0.77	0.73	0.77	0.72	0.76	0.71	0.75	0.70	0.74	0.69		
145	0.77	0.82	0.78	0.83	0.79	0.84	0.80	0.85	0.81	0.84	0.80	0.84	0.79	0.83	0.78	0.82	0.77		
150	0.85	0.90	0.86	0.91	0.87	0.92	0.88	0.93	0.88	0.92	0.87	0.92	0.87	0.91	0.86	0.90	0.85		
155	0.92	0.97	0.92	0.97	0.93	0.99	0.94	0.99	0.95	0.99	0.94	0.98	0.94	0.98	0.93	0.98	0.92		
160	0.99	1.03	1.00	1.04	1.00	1.05	1.00	1.05	1.01	1.05	1.00	1.04	1.00	1.04	1.00	1.03	0.99		
165	1.05	1.10	1.05	1.10	1.06	1.11	1.06	1.10	1.06	1.10	1.06	1.09	1.05	1.10	1.05	1.10	1.05		
170	1.11	1.15	1.10	1.15	1.10	1.14	1.10	1.15	1.11	1.14	1.09	1.14	1.10	1.14	1.10	1.15	1.10		
175	1.14	1.17	1.14	1.16	1.14	1.16	1.14	1.17	1.13	1.15	1.13	1.15	1.13	1.15	1.13	1.16	1.14		
180	1.17	1.18	1.17	1.17	1.16	1.16	1.17	1.17	1.16	1.16	1.15	1.15	1.15	1.16	1.16	1.16	1.16		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-03

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: