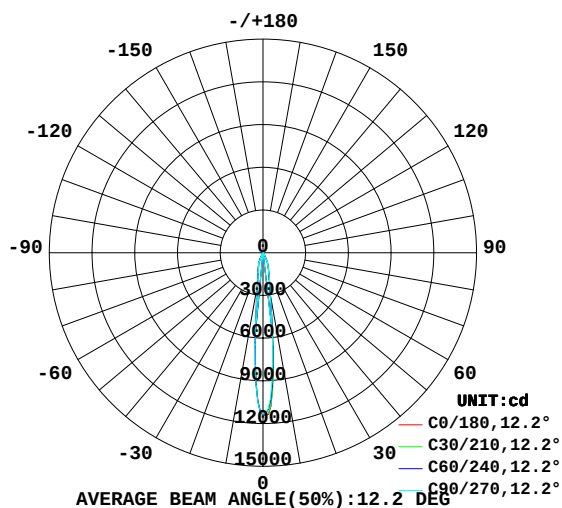


LUMINAIRE PHOTOMETRIC TEST REPORT

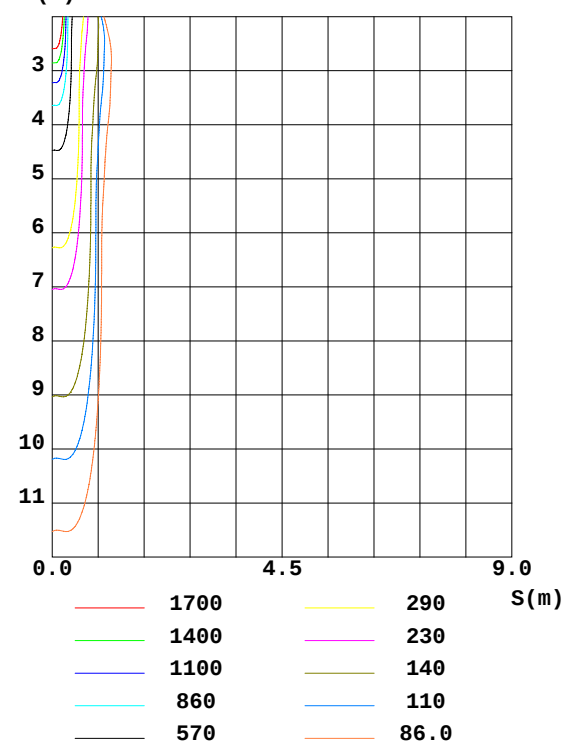
NAME: CL-Out12 3000k-Ra90-12D-16W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 75.40 lm/W			
MODEL		I _{max} (cd)	11430	S/MH(C0/180)	0.23
NOMINAL POWER(W)	8	LOR(%)	100.0	S/MH(C90/270)	0.23
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1266.6	η UP, DN(C0-180)	0.2, 54.9
NOMINAL FLUX(lm)	1266.64	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.2, 44.7
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:0
 Test Date:2022-04-21

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	280.7	305.8	305.0	275.3	243.0	221.1	219.7	236.9	0- 10	520.6	520.6	41.1, 41.1
20	103.1	109.0	109.8	104.6	96.13	90.15	88.36	92.02	10- 20	429.1	949.7	75, 75
30	20.69	27.58	30.15	23.75	15.47	11.64	11.15	12.99	20- 30	267.7	1217	96.1, 96.1
40	1.050	1.844	1.444	1.680	0.6035	1.447	1.242	1.813	30- 40	41.17	1259	99.4, 99.4
50	0.0355	0.0553	0.0367	0.0569	0.0240	0.0470	0.0407	0.0559	40- 50	2.821	1261	99.6, 99.6
60	0	0.0007	0	0.0000	0	0.0007	0.0000	0.0017	50- 60	0.1326	1262	99.6, 99.6
70	0	0	0	0	0	0	0	0	60- 70	0.0002	1262	99.6, 99.6
80	0	0	0	0	0	0	0	0	70- 80	0	1262	99.6, 99.6
90	0	0	0	0	0	0	0	0	80- 90	0	1262	99.6, 99.6
100	0	0	0	0	0	0	0	0	90-100	0	1262	99.6, 99.6
110	0	0	0	0	0	0	0	0	100-110	0	1262	99.6, 99.6
120	0	0	0	0	0	0	0	0	110-120	0	1262	99.6, 99.6
130	0	0	0	0	0.0052	0.0054	0.0037	0.0038	120-130	0.0022	1262	99.6, 99.6
140	0.0471	0.0427	0.0440	0.0460	0.0634	0.0692	0.0698	0.0656	130-140	0.1724	1262	99.6, 99.6
150	0.1885	0.1765	0.1791	0.1871	0.2141	0.2308	0.2334	0.2169	140-150	0.7189	1262	99.7, 99.7
160	0.5433	0.5236	0.5203	0.5342	0.5449	0.5543	0.5514	0.5352	150-160	1.635	1264	99.8, 99.8
170	0.7559	0.7397	0.7287	0.7333	0.7552	0.7475	0.7347	0.7357	160-170	1.827	1266	99.9, 99.9
180	0.7739	0.7560	0.7475	0.7433	0.7716	0.7551	0.7475	0.7419	170-180	0.7183	1267	100, 100
DEG	LUMINOUS INTENSITY: ×10cd									UNIT: lm		

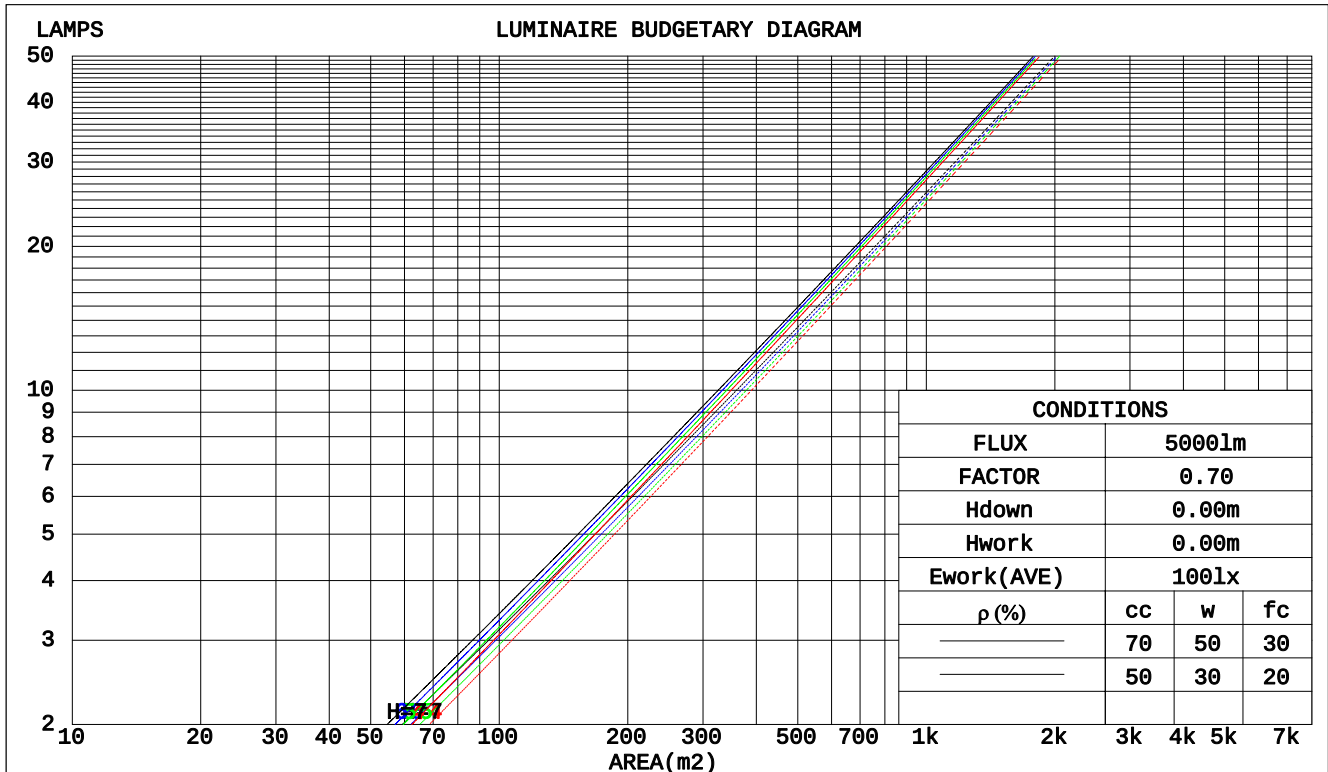
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-04-21

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: Out12-3000K-RA90-8W-12D.	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	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	1.13	1.11	1.09	1.11	1.09	1.08	1.07	1.05	1.04	1.03	1.02	1.01	.00	.99	.98	.96
2.0	1.08	1.05	1.02	1.06	1.04	1.01	1.03	1.01	.99	1.00	.98	.97	.97	.96	.95	.93
3.0	1.03	.00	.97	1.02	.99	.96	.00	.97	.95	.97	.95	.93	.95	.93	.92	.91
4.0	.99	.96	.93	.98	.95	.92	.96	.93	.91	.94	.92	.90	.93	.91	.89	.88
5.0	.96	.92	.89	.95	.91	.89	.93	.90	.88	.92	.89	.87	.90	.88	.86	.85
6.0	.93	.89	.86	.92	.88	.86	.91	.87	.85	.89	.87	.84	.88	.86	.84	.83
7.0	.90	.86	.83	.89	.85	.83	.88	.85	.82	.87	.84	.82	.86	.84	.82	.81
8.0	.87	.83	.80	.87	.83	.80	.86	.82	.80	.85	.82	.80	.84	.81	.79	.78
9.0	.85	.81	.78	.84	.81	.78	.84	.80	.78	.83	.80	.78	.82	.79	.77	.76
10.0	.83	.79	.76	.82	.78	.76	.81	.78	.76	.81	.78	.76	.80	.77	.75	.75



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-04-21

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: Out12-3000K-RA90-8W-12D.	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	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	.134	.076	.024	.127	.073	.023	.115	.066	.021	.103	.059	.019	.092	.054	.017		
2.0	.124	.068	.021	.119	.065	.020	.108	.060	.019	.099	.055	.017	.090	.051	.016		
3.0	.116	.061	.018	.111	.059	.018	.102	.055	.017	.094	.052	.016	.087	.048	.015		
4.0	.108	.056	.017	.104	.055	.016	.097	.051	.015	.090	.048	.015	.084	.046	.014		
5.0	.102	.052	.015	.099	.051	.015	.092	.048	.014	.087	.046	.014	.081	.043	.013		
6.0	.096	.048	.014	.094	.047	.014	.088	.045	.013	.083	.043	.013	.078	.041	.012		
7.0	.092	.045	.013	.089	.044	.013	.084	.043	.012	.080	.041	.012	.076	.039	.012		
8.0	.087	.043	.012	.085	.042	.012	.081	.040	.012	.077	.039	.011	.073	.038	.011		
9.0	.083	.040	.011	.081	.040	.011	.078	.038	.011	.074	.037	.011	.071	.036	.010		
10.0	.080	.038	.011	.078	.038	.011	.075	.037	.010	.072	.036	.010	.069	.035	.010		

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	.194	.194	.194	.165	.165	.165	.113	.113	.113	.065	.065	.065	.021	.021	.021		
1.0	.171	.161	.151	.147	.138	.130	.100	.095	.090	.058	.055	.052	.018	.018	.017		
2.0	.153	.136	.121	.131	.117	.105	.090	.081	.073	.052	.047	.043	.017	.015	.014		
3.0	.138	.116	.099	.118	.100	.086	.081	.070	.060	.047	.041	.036	.015	.013	.012		
4.0	.125	.101	.082	.107	.087	.072	.074	.061	.050	.043	.036	.030	.014	.012	.010		
5.0	.115	.089	.069	.098	.077	.060	.068	.054	.043	.039	.031	.025	.013	.010	.008		
6.0	.106	.079	.059	.091	.068	.052	.063	.048	.036	.036	.028	.022	.012	.009	.007		
7.0	.098	.070	.051	.084	.061	.044	.058	.043	.031	.034	.025	.019	.011	.008	.006		
8.0	.092	.064	.044	.079	.055	.039	.055	.039	.027	.032	.023	.016	.010	.007	.005		
9.0	.086	.058	.039	.074	.050	.034	.051	.035	.024	.030	.021	.014	.010	.007	.005		
10.0	.081	.053	.035	.070	.046	.030	.048	.032	.021	.028	.019	.013	.009	.006	.004		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:0
Test Date:2022-04-21

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: Out12-3000K-RA90-8W-12D.						TYPE:					WEIGHT:				
DIM.:						SPEC.:					SERIAL No.:				
MFR.: 0						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	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	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	0.2	0.2	0.2	0.2	0.2
Room dimensions						Viewed crosswise					Viewed endwise				
x = 2H y = 2H						-4.2	-3.6	-4.0	-3.4	-3.3	-3.5	-2.8	-3.2	-2.7	-2.5
3H						-4.3	-3.8	-4.1	-3.6	-3.4	-3.6	-3.0	-3.4	-2.8	-2.6
4H						-4.4	-3.9	-4.2	-3.6	-3.4	-3.7	-3.1	-3.4	-2.9	-2.7
6H						-4.5	-4.0	-4.2	-3.7	-3.5	-3.8	-3.2	-3.5	-3.0	-2.8
8H						-4.5	-4.0	-4.3	-3.8	-3.5	-3.8	-3.3	-3.5	-3.0	-2.8
12H						-4.6	-4.1	-4.3	-3.8	-3.6	-3.9	-3.4	-3.5	-3.1	-2.8
4H 2H						-4.4	-3.9	-4.2	-3.6	-3.4	-3.7	-3.1	-3.4	-2.9	-2.7
3H						-4.6	-4.1	-4.3	-3.8	-3.6	-3.9	-3.4	-3.5	-3.1	-2.8
4H						-4.7	-4.2	-4.4	-3.9	-3.6	-4.0	-3.5	-3.6	-3.2	-2.9
6H						-4.8	-4.4	-4.4	-4.1	-3.7	-4.1	-3.7	-3.7	-3.3	-3.0
8H						-4.9	-4.5	-4.5	-4.1	-3.8	-4.1	-3.7	-3.7	-3.4	-3.0
12H						-4.9	-4.6	-4.5	-4.2	-3.8	-4.2	-3.8	-3.8	-3.5	-3.1
8H 4H						-4.9	-4.5	-4.5	-4.1	-3.8	-4.1	-3.7	-3.7	-3.4	-3.0
6H						-5.0	-4.7	-4.5	-4.3	-3.8	-4.2	-3.9	-3.8	-3.5	-3.1
8H						-5.0	-4.8	-4.6	-4.3	-3.9	-4.3	-4.0	-3.8	-3.6	-3.1
12H						-5.1	-4.9	-4.6	-4.4	-3.9	-4.4	-4.1	-3.9	-3.7	-3.2
12H 4H						-4.9	-4.6	-4.5	-4.2	-3.8	-4.2	-3.8	-3.8	-3.5	-3.1
6H						-5.0	-4.8	-4.6	-4.3	-3.9	-4.3	-4.0	-3.8	-3.6	-3.1
8H						-5.1	-4.9	-4.6	-4.4	-3.9	-4.4	-4.1	-3.9	-3.7	-3.2
Variations with the observer position at spacings:															
S = 1.0H						+ 4.4 / -62.5					+ 4.5 / -49.2				
1.5H						+ 7.2 / -26.6					+ 7.3 / -24.7				
2.0H						+ 6.4 / - 1.\$					+ 6.8 / - 1.\$				

CIE Pub.117 Corrected 1267 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:0
Test Date:2022-04-21

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: Out12-3000K-RA90-8W-12D.	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:

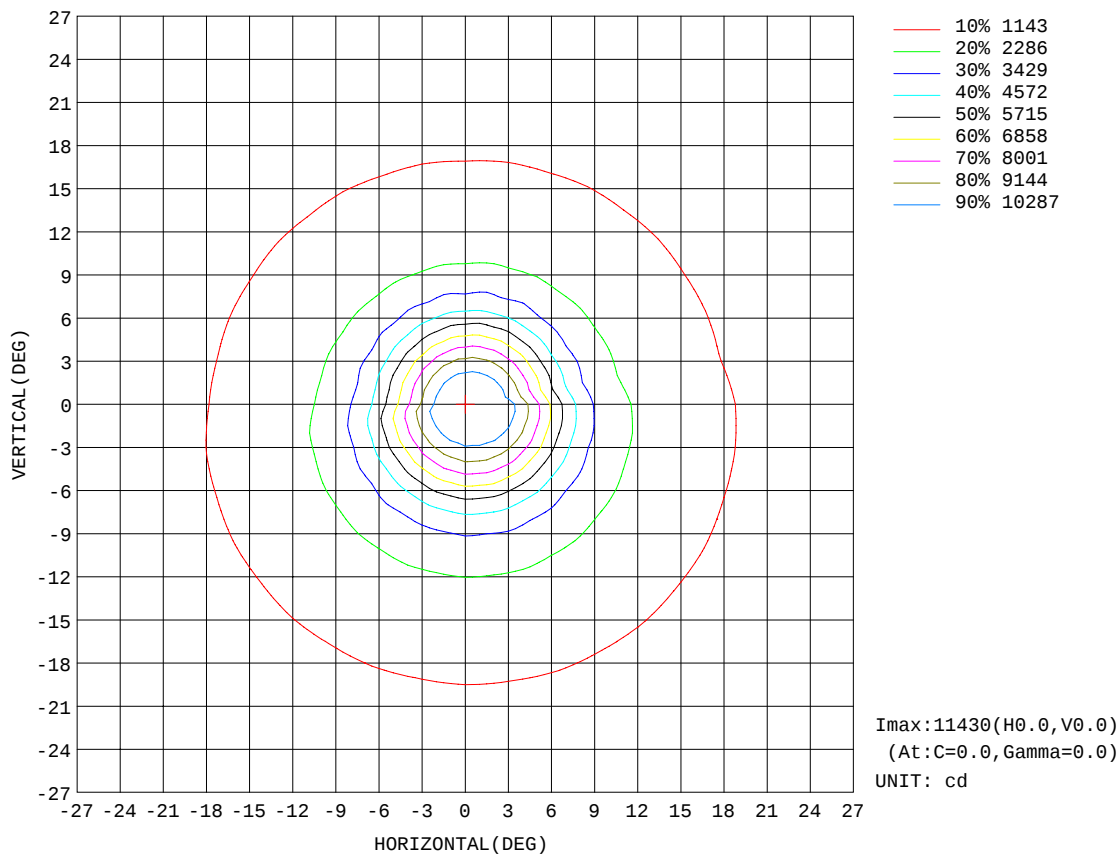
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	91	86	82	91	85	82	90	85	82	79
0.80	98	93	90	97	93	90	96	92	89	86
1.00	102	97	94	101	96	93	99	96	93	89
1.25	105	101	98	104	100	97	102	99	96	93
1.50	108	103	101	106	103	100	104	101	99	95
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	107	104	107	104	102	97
3.00	113	110	107	111	108	106	107	105	104	97
4.00	114	112	110	112	110	109	109	107	106	99
5.00	116	114	112	114	112	110	110	108	107	100
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: 0
Test Date: 2022-04-21

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: Out12-3000K-RA90-8W-12D.	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:

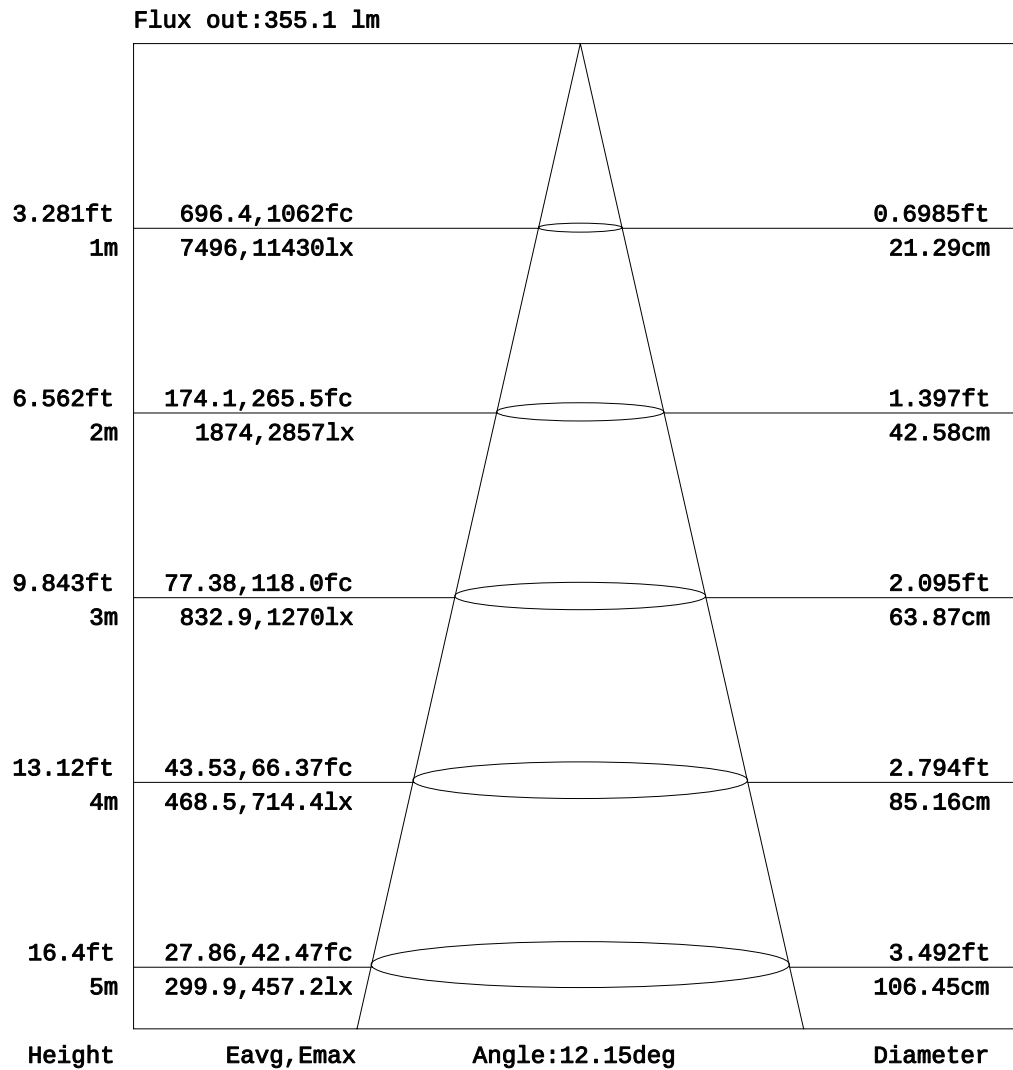


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:0
Test Date:2022-04-21

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: Out12-3000K-RA90-8W-12D.	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:



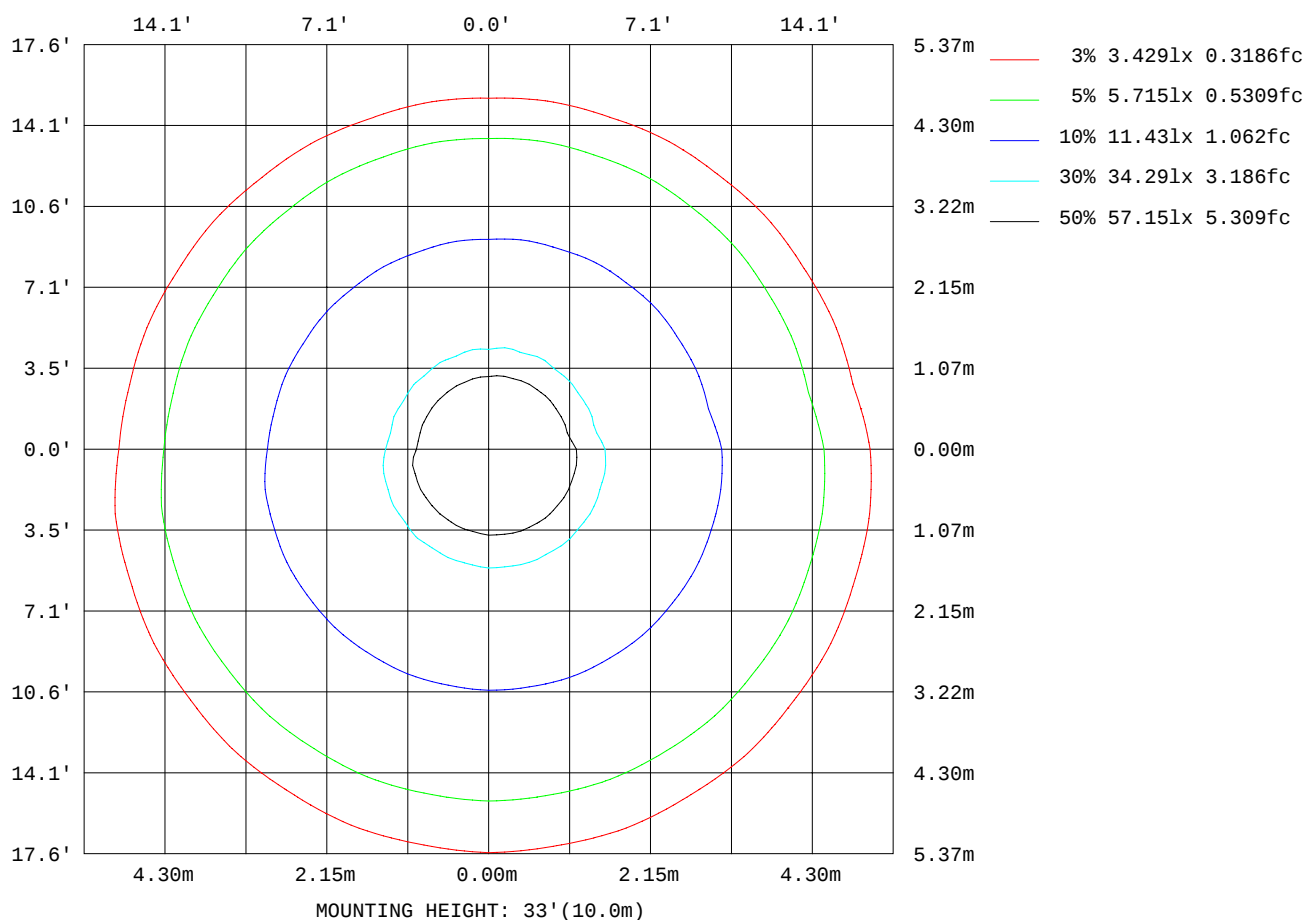
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-04-21

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: Out12-3000K-RA90-8W-12D.	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-04-21

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: Out12-3000K-RA90-8W-12D.	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	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	1266.64	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	1	1	2	2	3	3	4	2	2	1	2	2	4	3	3	2	2	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	4	200	---	500
Category 2	65 to 90	0	200	---	500
Category 3	75 to 90	0	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:0
Test Date:2022-04-21

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: Out12-3000K-RA90-8W-12D.	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	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	1266.64	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	1	1	2	2	3	3	4	2	2	1	2	2	4	3	3	2	2	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	4	1000	1500	200	500
65 to 90	0	1000	1500	200	500

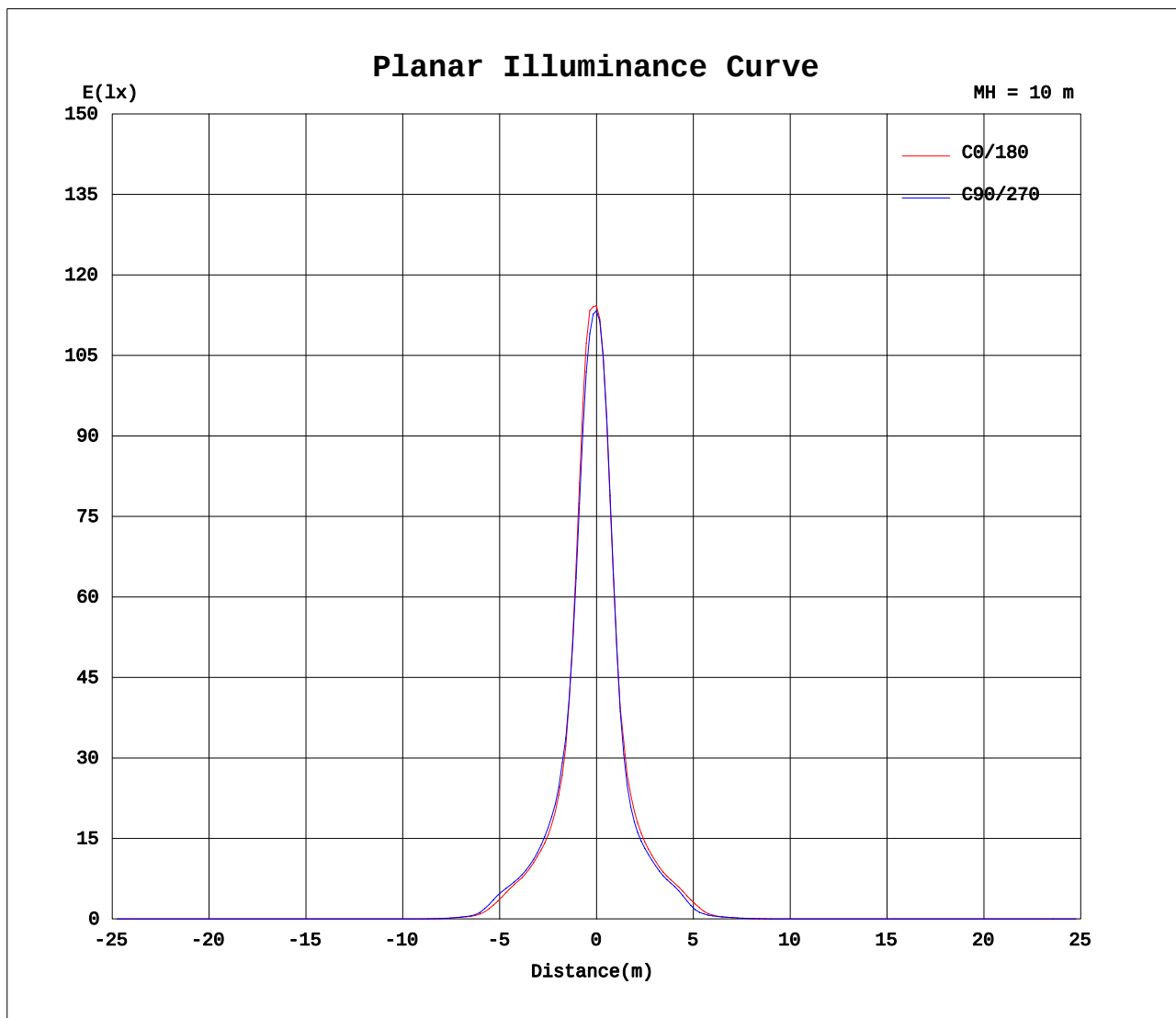
Table 3. Tabulation of average luminance(cd/sq.m.) and luminance limits

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:0
Test Date:2022-04-21

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: 0
Test Date: 2022-04-21

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: Out12-3000K-RA90-8W-12D.	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: ×10cd

C(°)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	1143	1142	1140	1139	1138	1136	1136	1134	1133	1133	1133	1133	1132	1134	1133	1135	1134	1135	1143
5	821	838	829	839	824	828	807	806	784	783	759	758	735	735	714	716	697	702	640
10	281	290	291	309	298	313	301	312	297	305	289	289	280	279	271	270	261	260	243
15	157	161	161	165	166	169	169	171	169	170	167	167	163	162	158	157	152	151	145
20	103	105	106	108	108	110	110	111	110	110	108	108	106	106	104	103	100	99.6	96.1
25	66.5	69.7	71.2	73.6	74.5	76.1	76.4	77.2	76.9	77.2	76.3	76.1	74.6	73.8	71.4	69.8	66.5	64.6	58.4
30	20.7	22.9	24.0	26.9	26.3	28.8	27.7	30.1	28.4	30.2	27.5	28.5	25.3	24.5	23.0	22.2	20.3	19.2	15.5
35	6.17	6.31	6.29	6.43	6.43	6.59	6.56	6.70	6.67	6.76	6.66	6.72	6.55	6.52	6.26	6.15	5.83	5.71	4.97
40	1.05	1.23	1.57	1.87	1.84	1.85	1.81	1.79	1.57	1.44	1.47	1.71	1.71	1.71	1.65	1.63	1.34	0.96	0.60
45	0.08	0.09	0.11	0.25	0.40	0.42	0.36	0.21	0.12	0.10	0.11	0.18	0.33	0.39	0.36	0.23	0.10	0.08	0.07
50	0.04	0.03	0.04	0.04	0.05	0.06	0.05	0.04	0.04	0.04	0.04	0.04	0.05	0.06	0.06	0.04	0.04	0.03	0.02
55	0.01	0.00	0.01	0.01	0.02	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.00	0.00
60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	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	0.01
135	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.02	0.03
140	0.05	0.05	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.04	0.05	0.04	0.05	0.05	0.05	0.06
145	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.09	0.10	0.10	0.10	0.10	0.11	0.12
150	0.19	0.19	0.18	0.18	0.18	0.18	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.20	0.21
155	0.35	0.34	0.34	0.34	0.33	0.33	0.33	0.33	0.33	0.34	0.34	0.34	0.35	0.35	0.35	0.36	0.36	0.36	0.37
160	0.54	0.54	0.53	0.53	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.53	0.53	0.53	0.54	0.54	0.55	0.55	0.54
165	0.68	0.67	0.67	0.66	0.66	0.66	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.66	0.66	0.66	0.67	0.67	0.67
170	0.76	0.76	0.75	0.75	0.74	0.74	0.73	0.73	0.72	0.73	0.72	0.73	0.73	0.73	0.73	0.74	0.74	0.75	0.76
175	0.79	0.78	0.78	0.77	0.77	0.75	0.75	0.75	0.75	0.75	0.75	0.74	0.75	0.75	0.75	0.75	0.76	0.77	0.77
180	0.77	0.77	0.77	0.76	0.76	0.76	0.75	0.75	0.75	0.75	0.75	0.75	0.74	0.74	0.74	0.74	0.75	0.75	0.77

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-04-21

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: Out12-3000K-RA90-8W-12D.	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: ×10cd

C (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	1142	1140	1139	1138	1136	1136	1134	1133	1133	1133	1133	1132	1134	1133	1135	1134	1135		
5	622	627	615	626	617	633	629	649	648	671	672	695	695	717	717	736	733		
10	234	232	224	224	218	220	217	221	220	226	226	233	233	241	242	251	253		
15	141	140	137	136	134	134	133	134	134	136	136	139	139	143	143	147	147		
20	93.9	93.1	91.3	90.9	89.4	89.4	88.5	88.9	88.4	89.3	89.3	90.6	91.1	92.9	93.6	95.7	96.4		
25	54.9	53.8	51.2	50.4	48.1	47.9	46.0	46.8	45.9	47.6	47.8	50.3	51.2	54.1	54.9	57.6	58.6		
30	14.9	13.2	13.1	11.9	11.4	11.3	11.1	11.2	11.2	11.5	11.5	12.0	12.9	13.0	14.5	14.8	15.9		
35	4.77	4.76	4.65	4.72	4.71	4.83	4.86	4.99	5.01	5.16	5.19	5.31	5.30	5.42	5.43	5.54	5.51		
40	0.61	0.90	1.27	1.43	1.47	1.56	1.55	1.42	1.24	1.39	1.65	1.82	1.80	1.82	1.76	1.42	0.95		
45	0.07	0.08	0.12	0.24	0.30	0.29	0.17	0.10	0.09	0.09	0.15	0.32	0.39	0.38	0.21	0.10	0.08		
50	0.03	0.03	0.04	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.06	0.05	0.04	0.03	0.03		
55	0.01	0.00	0.01	0.01	0.02	0.01	0.02	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.01		
60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
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	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00		
135	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.03	0.02		
140	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06		
145	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.11		
150	0.22	0.22	0.23	0.23	0.23	0.23	0.23	0.24	0.23	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.20		
155	0.38	0.38	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.37	0.36	0.36	0.35	0.35		
160	0.55	0.55	0.55	0.55	0.55	0.56	0.55	0.55	0.55	0.55	0.54	0.54	0.54	0.53	0.53	0.52	0.52		
165	0.67	0.68	0.67	0.68	0.68	0.68	0.67	0.68	0.67	0.67	0.67	0.67	0.66	0.66	0.66	0.66	0.65		
170	0.75	0.75	0.75	0.75	0.74	0.75	0.74	0.74	0.73	0.74	0.73	0.74	0.73	0.74	0.73	0.74	0.73		
175	0.77	0.77	0.76	0.76	0.76	0.75	0.75	0.75	0.75	0.75	0.74	0.74	0.74	0.75	0.75	0.75	0.76		
180	0.77	0.77	0.76	0.76	0.75	0.75	0.75	0.75	0.75	0.75	0.74	0.74	0.74	0.74	0.74	0.74	0.75		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-04-21

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: