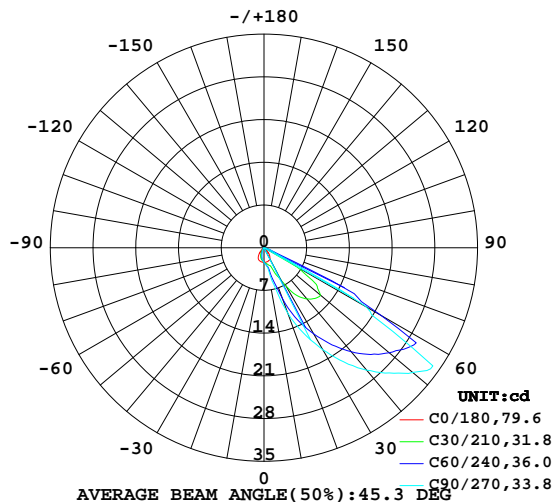


## LUMINAIRE PHOTOMETRIC TEST REPORT

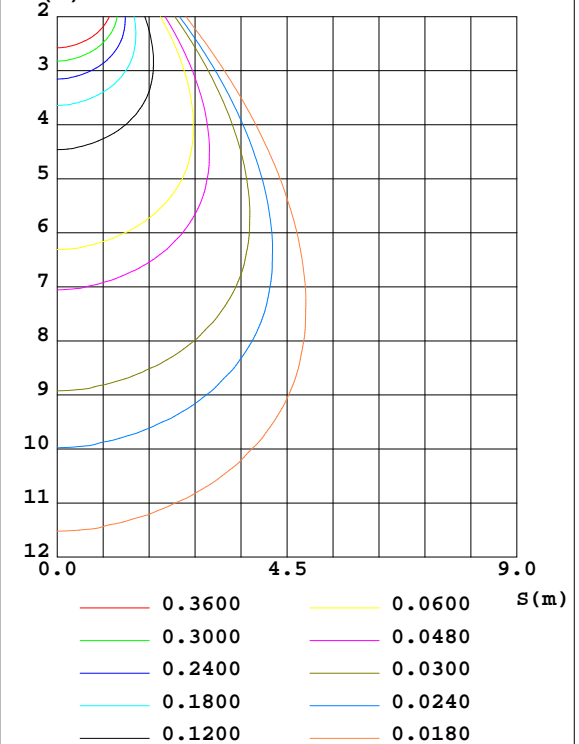
Test:U:120.08V I:0.0172A P:1.8313W PF:0.8859 Freq:59.99Hz Lamp Flux:24.7188x1 lm		
NAME: WL-LED102-30-BN	TYPE:Surface-mounted Luminaire	HEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WAC Lighting	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 13.50 lm/W			
MODEL		Imax(cd)	33.77	S/MH(C0/180)	1.15
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	2.69
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	24.719	$\eta$ UP,DN(C0-180)	0.8,3.9
NOMINAL FLUX(lm)	24.7188	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	0.2,95.1
LAMPS INSIDE	1	$\eta$ up(%)	1.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	120	$\eta$ down(%)	99.0	CIBSE SHR MAX	1.25

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Oliver  
 Test Date:2019-12-06

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:2.499m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM

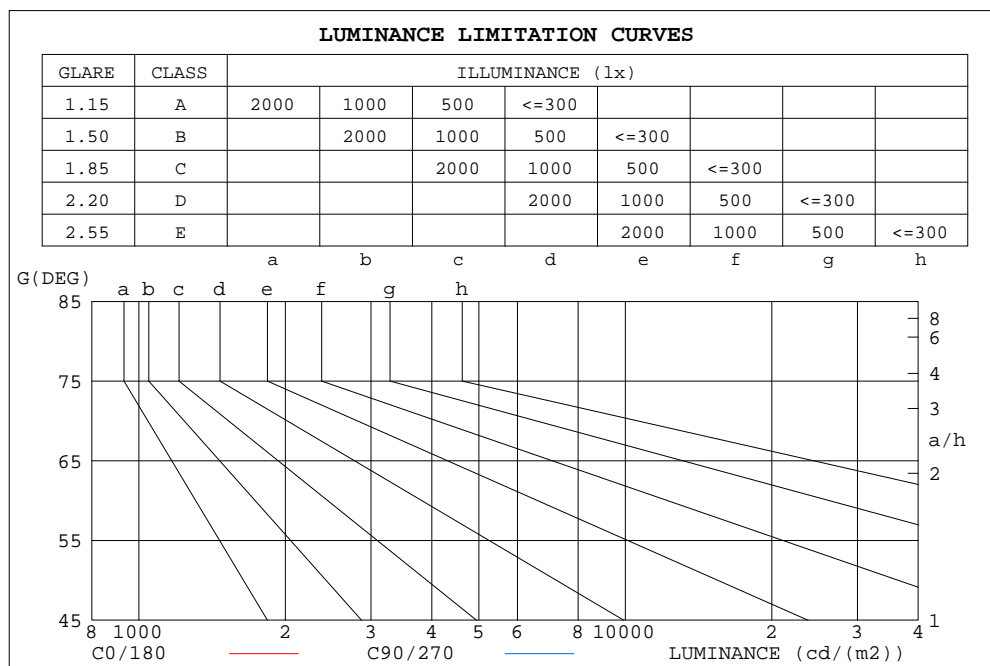
## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	2.366	1.934	1.760	1.944	2.382	2.886	3.222	2.853	0- 10	0.2284	0.2284	0.92,0.92
20	2.248	1.323	0.9700	1.350	2.281	5.886	11.34	5.512	10- 20	0.8570	1.085	4.39,4.39
30	1.917	0.6970	0.4228	0.7204	1.980	12.72	19.30	11.90	20- 30	2.331	3.417	13.8,13.8
40	1.164	0.2824	0.1657	0.2898	1.221	17.20	26.19	16.08	30- 40	4.369	7.786	31.5,31.5
50	0.3761	0.0966	0.0589	0.0965	0.3880	20.26	31.80	18.85	40- 50	6.529	14.31	57.9,57.9
60	0.1262	0.0312	0.0192	0.0311	0.1293	18.77	19.29	16.36	50- 60	7.598	21.91	88.6,88.6
70	0.0781	0.0107	0.0051	0.0089	0.0785	1.236	0.9646	1.189	60- 70	2.372	24.28	98.2,98.2
80	0.0367	0.0026	0.0004	0.0017	0.0276	0.0714	0	0.0888	70- 80	0.1846	24.47	99,99
90	0.0294	0	0.0021	0	0	0.0000	0.0017	0.0004	80- 90	0.0060	24.48	99,99
100	0.0393	0.0128	0.0119	0.0076	0.0017	0.0030	0.0047	0.0055	90-100	0.0060	24.48	99,99
110	0.0557	0.0251	0.0184	0.0140	0.0151	0.0051	0.0060	0.0059	100-110	0.0130	24.49	99.1,99.1
120	0.0729	0.1937	0.0320	0.0484	0.0350	0.0094	0.0081	0.0102	110-120	0.0256	24.52	99.2,99.2
130	0.0889	0.2088	0.1350	0.1294	0.0605	0.0124	0.0115	0.0127	120-130	0.0436	24.56	99.4,99.4
140	0.0988	0.1398	0.2616	0.0476	0.0691	0.0167	0.0141	0.0144	130-140	0.0571	24.62	99.6,99.6
150	0.1079	0.0978	0.1379	0.0909	0.0944	0.0359	0.0154	0.0314	140-150	0.0444	24.66	99.8,99.8
160	0.1140	0.0934	0.0935	0.1086	0.1153	0.0482	0.0115	0.0450	150-160	0.0301	24.69	99.9,99.9
170	0.1165	0.0777	0.1208	0.1150	0.1125	0.0432	0.0162	0.0200	160-170	0.0190	24.71	100,100
180	0	0.0009	0.0004	0.0008	0.0009	0.0021	0	0	170-180	0.0049	24.72	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Oliver  
 Test Date:2019-12-06

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:2.499m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

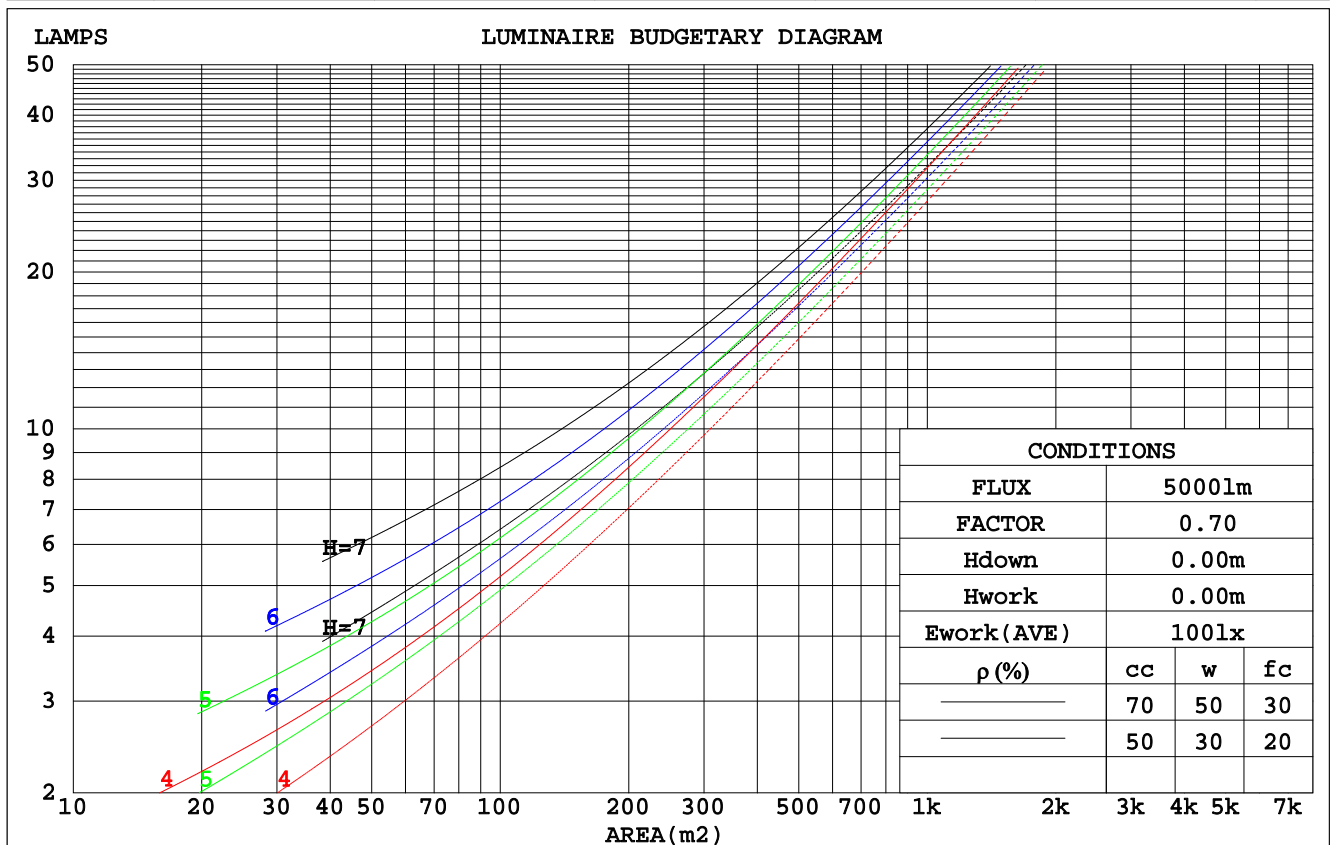


C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Oliver  
 Test Date: 2019-12-06

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity: 65.0%  
 Test Distance: 2.499m [K=1.0000]  
 Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			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	1.01	1.01	1.01	.99
1.0	1.05	1.01	.98	1.03	.99	.96	.98	.95	.93	.94	.92	.90	.91	.89	.87	.85
2.0	.91	.85	.79	.89	.83	.78	.86	.81	.76	.82	.78	.74	.79	.76	.72	.70
3.0	.79	.71	.64	.77	.70	.64	.74	.68	.62	.71	.66	.61	.69	.64	.60	.58
4.0	.69	.60	.53	.67	.59	.52	.65	.57	.51	.62	.56	.50	.60	.54	.50	.47
5.0	.60	.50	.43	.59	.50	.43	.56	.49	.43	.54	.47	.42	.52	.46	.41	.39
6.0	.53	.43	.36	.52	.43	.36	.50	.42	.36	.48	.41	.35	.46	.40	.35	.33
7.0	.47	.37	.31	.46	.37	.30	.44	.36	.30	.42	.35	.30	.41	.34	.29	.27
8.0	.41	.32	.26	.41	.32	.26	.39	.31	.26	.38	.31	.25	.37	.30	.25	.23
9.0	.37	.28	.22	.37	.28	.22	.35	.28	.22	.34	.27	.22	.33	.26	.22	.20
10.0	.34	.25	.20	.33	.25	.19	.32	.24	.19	.31	.24	.19	.30	.24	.19	.17



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Oliver  
 Test Date: 2019-12-06

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity: 65.0%  
 Test Distance: 2.499m [K=1.0000]  
 Remarks:

## WEC AND CCEC

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.281	.160	.051	.274	.156	.050	.260	.149	.048	.247	.143	.046	.236	.137	.044	
2.0	.281	.154	.047	.275	.151	.047	.263	.146	.045	.252	.141	.044	.241	.136	.043	
3.0	.270	.144	.043	.265	.142	.043	.254	.138	.042	.244	.134	.041	.235	.130	.040	
4.0	.256	.133	.039	.251	.131	.039	.241	.128	.038	.232	.125	.038	.224	.122	.037	
5.0	.241	.123	.036	.236	.121	.035	.227	.118	.035	.219	.116	.034	.211	.113	.034	
6.0	.225	.113	.032	.221	.112	.032	.213	.109	.032	.206	.107	.031	.199	.105	.031	
7.0	.211	.104	.030	.207	.103	.029	.200	.101	.029	.194	.099	.029	.187	.097	.029	
8.0	.198	.097	.027	.194	.096	.027	.188	.094	.027	.182	.092	.027	.176	.091	.026	
9.0	.186	.090	.025	.183	.089	.025	.177	.087	.025	.171	.086	.025	.166	.084	.024	
10.0	.175	.084	.023	.172	.083	.023	.167	.082	.023	.162	.080	.023	.157	.079	.023	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.198	.198	.198	.169	.169	.169	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.186	.164	.144	.159	.141	.124	.109	.097	.086	.063	.056	.050	.020	.018	.016	
2.0	.178	.140	.107	.153	.120	.092	.105	.083	.064	.060	.048	.038	.019	.016	.012	
3.0	.172	.122	.082	.148	.105	.071	.101	.073	.050	.059	.043	.029	.019	.014	.010	
4.0	.166	.109	.065	.143	.094	.056	.098	.066	.040	.057	.038	.024	.018	.012	.008	
5.0	.160	.099	.053	.138	.085	.046	.095	.060	.033	.055	.035	.019	.018	.011	.006	
6.0	.154	.091	.045	.132	.079	.039	.091	.055	.028	.053	.032	.017	.017	.011	.005	
7.0	.148	.084	.039	.127	.073	.034	.088	.051	.024	.051	.030	.014	.016	.010	.005	
8.0	.142	.078	.035	.122	.068	.030	.084	.048	.022	.049	.028	.013	.016	.009	.004	
9.0	.136	.074	.032	.117	.064	.028	.081	.045	.020	.047	.027	.012	.015	.009	.004	
10.0	.130	.069	.029	.112	.060	.025	.078	.042	.018	.045	.025	.011	.015	.008	.004	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Oliver  
 Test Date: 2019-12-06

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity: 65.0%  
 Test Distance: 2.499m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

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	-3.8	-2.1	-3.5	-1.9	-1.7	-12.3	-10.7	-12.0	-10.5	-10.2
3H	-3.6	-2.1	-3.3	-1.9	-1.6	-12.5	-11.0	-12.1	-10.7	-10.5
4H	-3.5	-2.1	-3.1	-1.8	-1.5	-12.6	-11.2	-12.2	-10.9	-10.6
6H	-3.3	-2.0	-3.0	-1.7	-1.4	-12.7	-11.4	-12.3	-11.1	-10.8
8H	-3.2	-2.0	-2.8	-1.7	-1.4	-12.7	-11.5	-12.4	-11.2	-10.9
12H	-2.9	-1.7	-2.6	-1.4	-1.1	-12.8	-11.6	-12.4	-11.3	-11.0
4H 2H	-4.1	-2.7	-3.7	-2.4	-2.1	-12.3	-10.9	-12.0	-10.6	-10.4
3H	-3.9	-2.7	-3.5	-2.4	-2.1	-12.4	-11.2	-12.0	-10.9	-10.6
4H	-3.7	-2.7	-3.3	-2.3	-2.0	-12.5	-11.4	-12.1	-11.1	-10.7
6H	-3.5	-2.6	-3.1	-2.2	-1.8	-12.6	-11.6	-12.2	-11.3	-10.9
8H	-3.3	-2.5	-2.9	-2.1	-1.7	-12.6	-11.8	-12.2	-11.4	-11.0
12H	-3.0	-2.2	-2.5	-1.8	-1.4	-12.7	-11.9	-12.2	-11.5	-11.0
8H 4H	-3.9	-3.0	-3.4	-2.6	-2.2	-12.5	-11.7	-12.1	-11.3	-10.9
6H	-3.6	-2.9	-3.2	-2.5	-2.1	-12.6	-11.9	-12.1	-11.5	-11.0
8H	-3.4	-2.8	-3.0	-2.4	-1.9	-12.6	-12.0	-12.1	-11.6	-11.1
12H	-3.0	-2.5	-2.5	-2.1	-1.6	-12.7	-12.1	-12.2	-11.7	-11.2
12H 4H	-3.9	-3.1	-3.4	-2.7	-2.3	-12.5	-11.8	-12.1	-11.4	-10.9
6H	-3.7	-3.0	-3.2	-2.6	-2.1	-12.6	-12.0	-12.1	-11.5	-11.1
8H	-3.5	-3.0	-3.0	-2.5	-2.0	-12.6	-12.1	-12.1	-11.6	-11.1
Variations with the observer position at spacings:										
S = 1.0H	+ 3.7 / - 3.4					+ 2.0 / - 4.5				
1.5H	+ 5.1 / - 5.0					+ 2.3 / - 2.8				
2.0H	+ 6.4 / - 4.6					+ 3.1 / - 3.7				

CIE Pub.117, 24.72 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = -12.9$ )

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Oliver  
 Test Date: 2019-12-06

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity: 65.0%  
 Test Distance: 2.499m [K=1.0000]  
 Remarks:

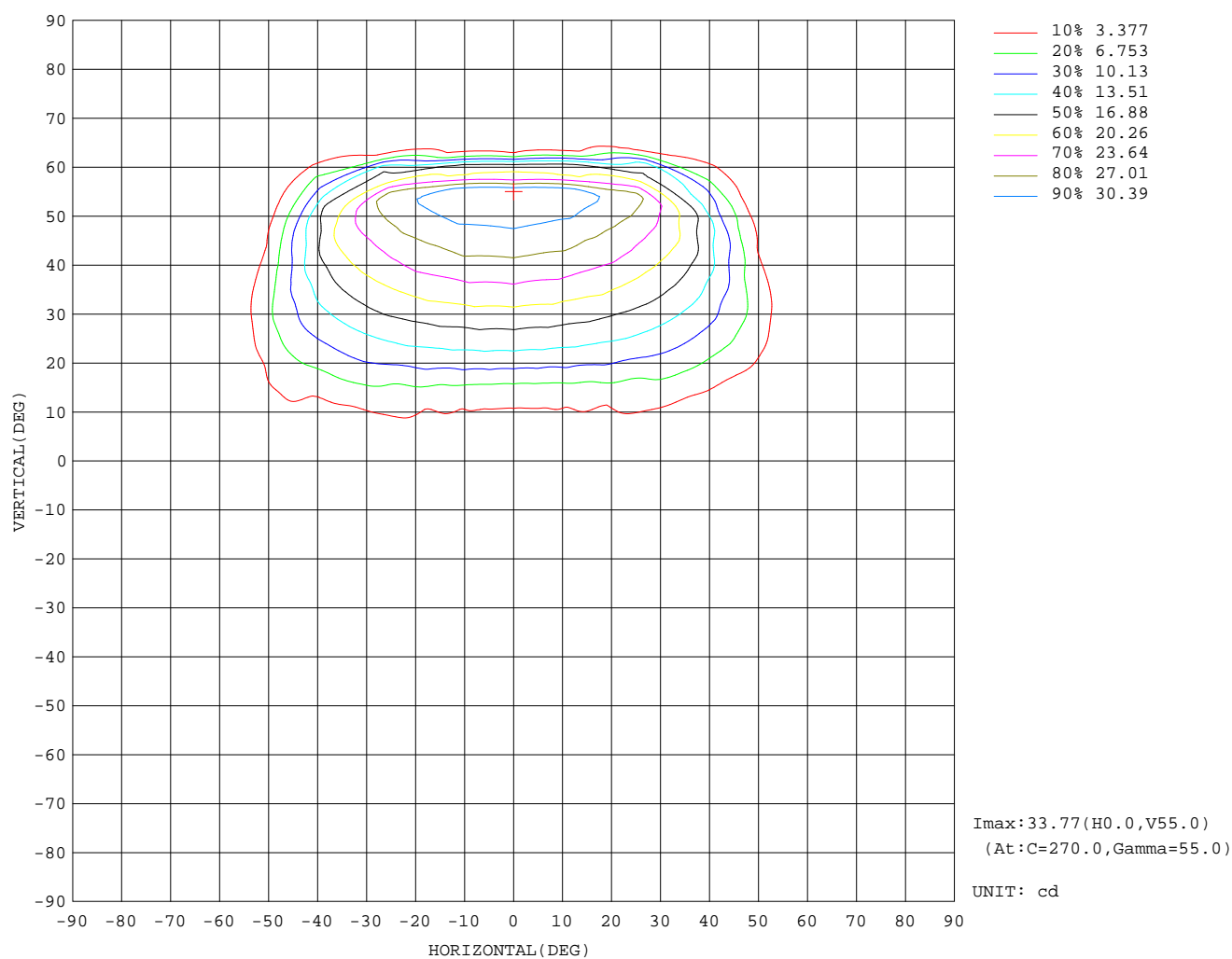
## UTILIZATION FACTORS TABLE

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) $k(RI) \times RCR = 5$									
$k = 0.60$	47	33	25	46	33	25	44	32	25	17
0.80	60	47	38	59	46	38	57	45	38	30
1.00	72	60	52	70	59	51	68	61	51	43
1.25	81	70	62	79	69	62	76	67	61	53
1.50	87	76	69	85	75	69	82	74	67	60
2.00	95	86	80	93	85	79	89	83	78	70
2.50	99	91	85	97	90	84	93	87	82	74
3.00	102	96	90	100	94	89	96	91	87	78
4.00	106	101	96	104	99	95	99	95	92	83
5.00	108	103	99	106	101	98	101	98	94	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Oliver  
 Test Date: 2019-12-06

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity: 65.0%  
 Test Distance: 2.499m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

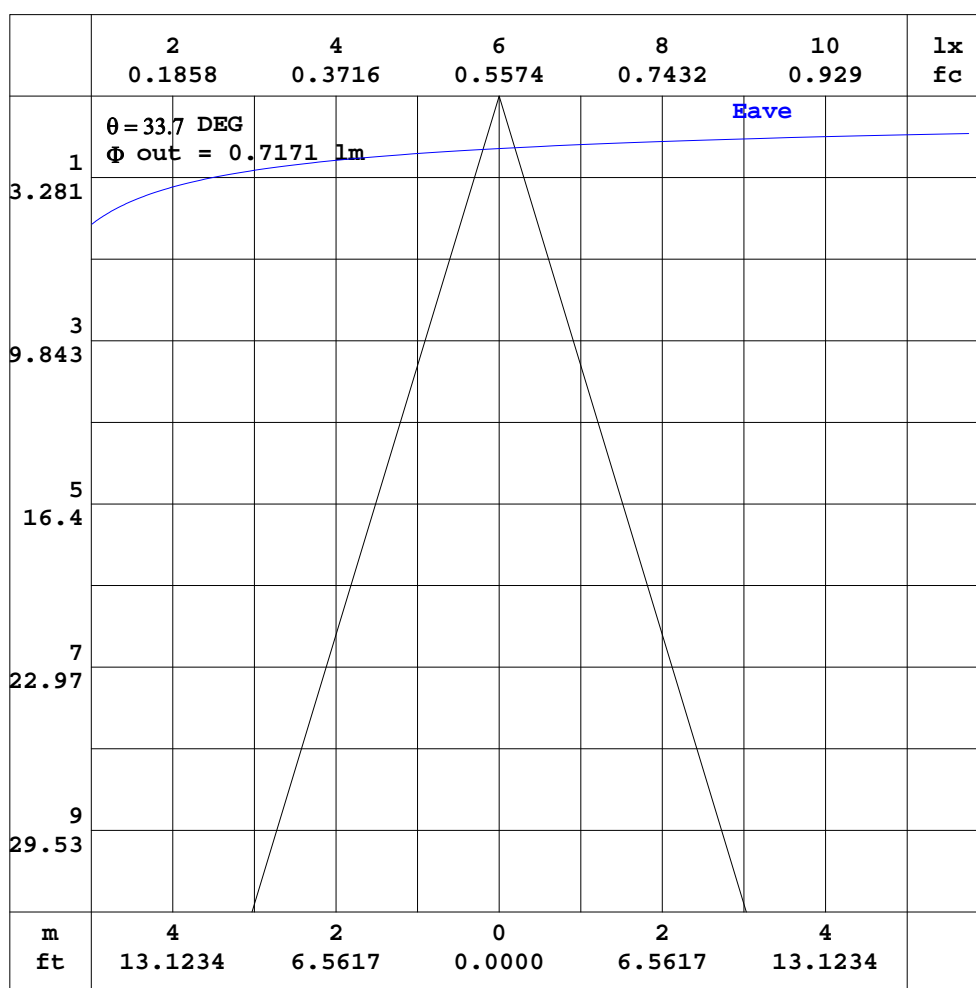


C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Oliver  
Test Date: 2019-12-06

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
Humidity: 65.0%  
Test Distance: 2.499m [K=1.0000]  
Remarks:



## AAI CURVES

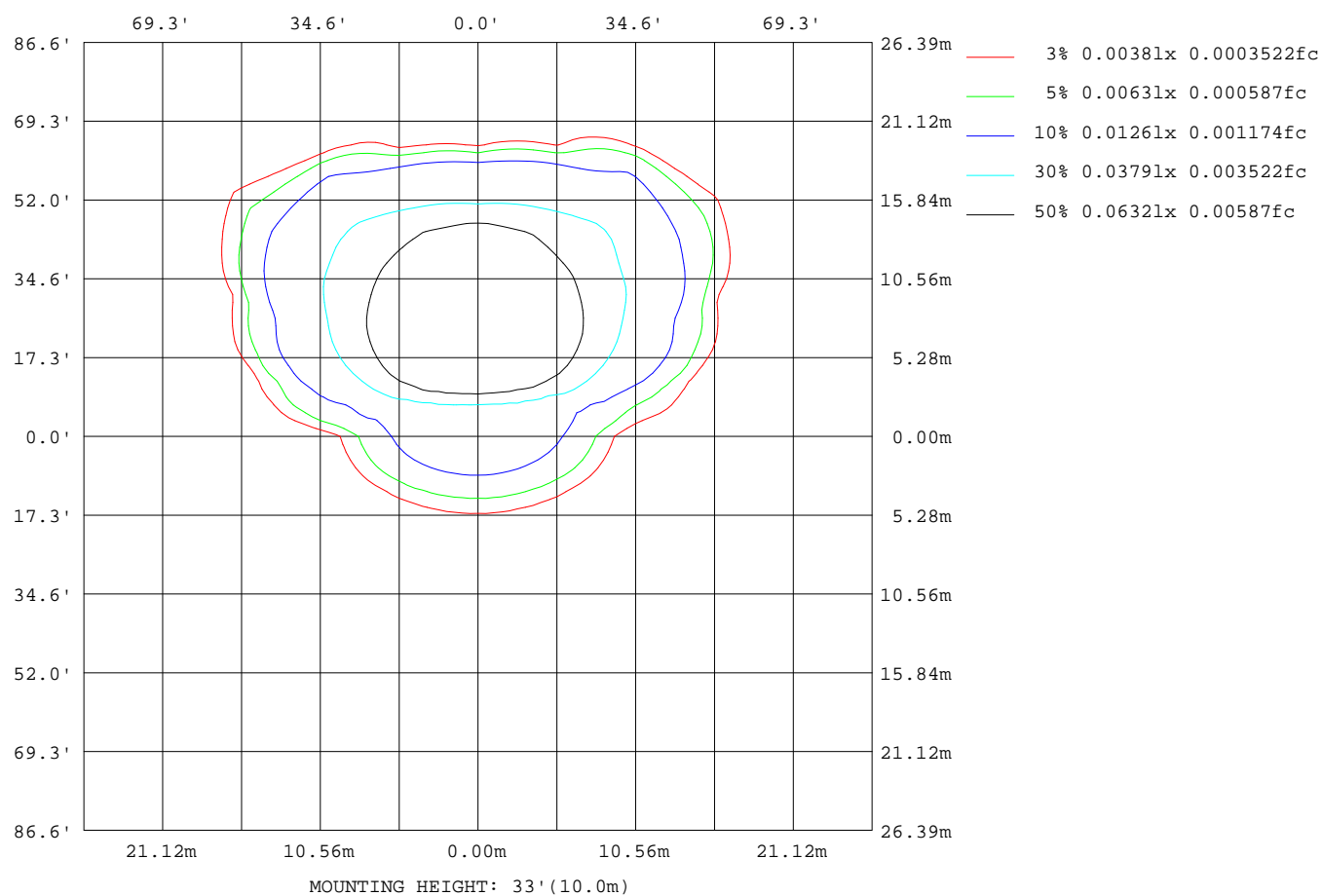


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Oliver  
Test Date: 2019-12-06

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
Humidity: 65.0%  
Test Distance: 2.499m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Oliver  
Test Date: 2019-12-06

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
Humidity: 65.0%  
Test Distance: 2.499m [K=1.0000]  
Remarks:

## LED Avg.L Report

Test:U:120.08V I:0.0172A P:1.8313W PF:0.8859 Freq:59.99Hz Lamp Flux:24.7188x1 lm		
NAME: WL-LED102-30-BN	TYPE:Surface-mounted Luminaire	HEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WAC Lighting	SUR.:	Shielding Angle:

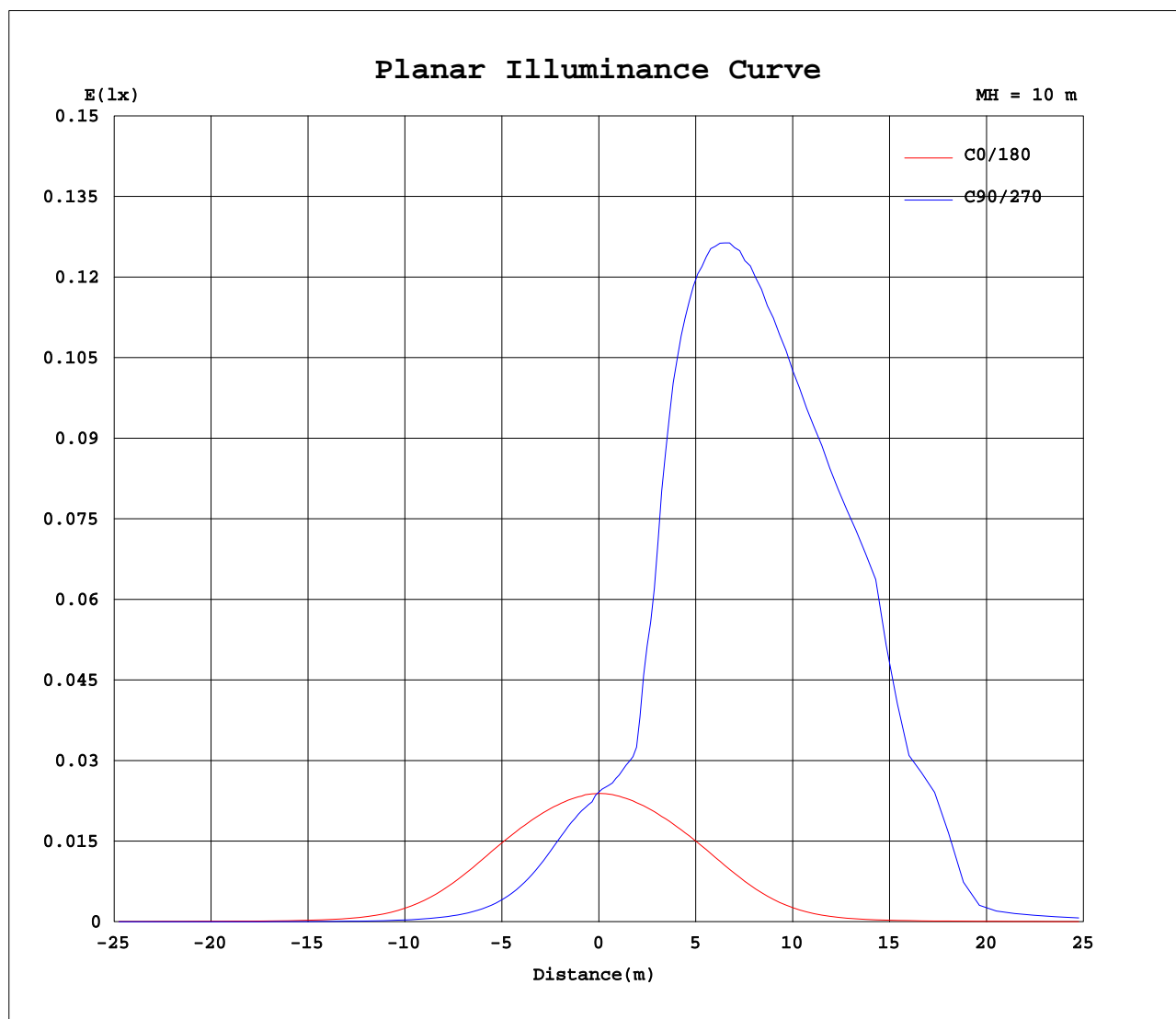
AvgL	cd/m2
L_0~180(65)av	2
L_0~180(75)av	2
L_0~180(85)av	2
L_90~270(65)av	24
L_90~270(75)av	5
L_90~270(85)av	0
L_45(65)av	97
L_45(75)av	9
L_45(85)av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Oliver  
 Test Date:2019-12-06

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:2.499m [K=1.0000]  
 Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Oliver  
Test Date: 2019-12-06

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
Humidity: 65.0%  
Test Distance: 2.499m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42
5	2.40	2.31	2.20	2.16	2.12	2.10	2.09	2.10	2.12	2.16	2.20	2.34	2.41	2.48	2.53	2.58	2.63	2.68	2.70
10	2.37	2.16	2.04	1.93	1.84	1.78	1.76	1.78	1.85	1.94	2.06	2.18	2.38	2.51	2.69	2.89	3.07	3.18	3.22
15	2.32	2.05	1.85	1.65	1.48	1.39	1.36	1.39	1.50	1.67	1.88	2.09	2.35	2.55	2.92	3.36	5.10	5.94	6.19
20	2.25	1.91	1.61	1.32	1.11	1.00	0.97	1.00	1.13	1.35	1.65	1.95	2.28	2.62	3.23	5.89	8.91	10.9	11.3
25	2.13	1.73	1.33	0.99	0.78	0.68	0.65	0.68	0.80	1.02	1.37	1.79	2.17	2.66	5.05	9.72	13.0	15.0	15.5
30	1.92	1.49	1.02	0.70	0.52	0.44	0.42	0.44	0.53	0.72	1.07	1.55	1.98	2.62	7.22	12.7	16.3	18.6	19.3
35	1.59	1.17	0.71	0.46	0.33	0.28	0.27	0.28	0.34	0.47	0.75	1.22	1.66	2.70	9.65	15.1	19.5	22.0	22.8
40	1.16	0.81	0.45	0.28	0.21	0.17	0.17	0.18	0.21	0.29	0.47	0.85	1.22	3.29	10.9	17.2	22.2	25.3	26.2
45	0.72	0.48	0.26	0.17	0.13	0.11	0.10	0.11	0.13	0.17	0.27	0.50	0.75	3.88	11.8	19.0	24.7	28.1	29.0
50	0.38	0.25	0.15	0.10	0.07	0.06	0.06	0.06	0.07	0.10	0.15	0.26	0.39	4.01	12.1	20.3	26.8	30.7	31.8
55	0.20	0.14	0.08	0.06	0.04	0.04	0.04	0.04	0.04	0.05	0.08	0.14	0.20	2.83	10.5	21.2	28.6	33.0	33.8
60	0.13	0.08	0.05	0.03	0.02	0.02	0.02	0.02	0.02	0.03	0.05	0.08	0.13	1.31	5.90	18.8	22.0	19.6	19.3
65	0.10	0.05	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.05	0.10	0.41	1.72	8.78	5.89	2.24	2.05
70	0.08	0.04	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.04	0.08	0.26	0.64	1.24	1.31	1.06	0.96
75	0.06	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.05	0.14	0.26	0.45	0.41	0.30	0.26
80	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.05	0.06	0.07	0.02	0.00	0.00
85	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00
90	0.03	0.00	0.00	0.00	0.00	0.00	0.00	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	0.03	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.04	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
105	0.05	0.03	0.03	0.01	0.02	0.01	0.02	0.01	0.01	0.01	0.02	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01
110	0.06	0.03	0.08	0.03	0.02	0.02	0.02	0.02	0.01	0.01	0.05	0.01	0.02	0.00	0.00	0.01	0.00	0.01	0.01
115	0.06	0.04	0.10	0.08	0.02	0.02	0.02	0.02	0.02	0.03	0.05	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01
120	0.07	0.05	0.10	0.19	0.06	0.04	0.03	0.03	0.03	0.05	0.08	0.01	0.03	0.01	0.01	0.01	0.01	0.01	0.01
125	0.08	0.06	0.08	0.21	0.18	0.08	0.05	0.04	0.05	0.08	0.05	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01
130	0.09	0.06	0.07	0.21	0.26	0.21	0.14	0.10	0.09	0.13	0.00	0.02	0.06	0.01	0.01	0.01	0.01	0.01	0.01
135	0.09	0.07	0.07	0.18	0.26	0.24	0.19	0.16	0.17	0.12	0.00	0.03	0.07	0.02	0.01	0.01	0.01	0.01	0.01
140	0.10	0.08	0.06	0.14	0.22	0.24	0.26	0.23	0.14	0.05	0.06	0.02	0.07	0.02	0.02	0.02	0.02	0.01	0.01
145	0.10	0.09	0.06	0.12	0.17	0.20	0.21	0.14	0.10	0.10	0.09	0.00	0.09	0.02	0.02	0.02	0.02	0.02	0.01
150	0.11	0.10	0.06	0.10	0.13	0.13	0.14	0.11	0.11	0.09	0.08	0.03	0.09	0.03	0.03	0.04	0.03	0.02	0.02
155	0.11	0.10	0.08	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.08	0.03	0.07	0.03	0.06	0.04	0.03	0.03	0.02
160	0.11	0.09	0.07	0.09	0.09	0.09	0.09	0.10	0.10	0.11	0.12	0.00	0.12	0.07	0.03	0.05	0.04	0.02	0.01
165	0.12	0.10	0.02	0.11	0.11	0.09	0.09	0.10	0.12	0.12	0.12	0.00	0.12	0.10	0.04	0.03	0.04	0.03	0.02
170	0.12	0.11	0.01	0.08	0.12	0.12	0.12	0.12	0.13	0.11	0.09	0.00	0.11	0.11	0.07	0.04	0.03	0.02	0.02
175	0.08	0.01	0.00	0.03	0.09	0.09	0.09	0.10	0.09	0.10	0.10	0.00	0.00	0.01	0.04	0.07	0.03	0.02	0.01
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Oliver  
 Test Date: 2019-12-06

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity: 65.0%  
 Test Distance: 2.499m [K=1.0000]  
 Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345													
0	2.42	2.42	2.42	2.42	2.42													
5	2.67	2.61	2.57	2.53	2.47													
10	3.17	3.05	2.85	2.65	2.49													
15	5.82	4.87	3.25	2.86	2.51													
20	10.6	8.36	5.51	3.07	2.55													
25	14.7	12.6	8.88	4.49	2.54													
30	18.2	15.6	11.9	6.04	2.47													
35	21.6	18.6	14.1	8.50	2.25													
40	24.8	21.2	16.1	9.76	2.41													
45	27.6	23.6	17.7	10.4	2.45													
50	30.0	25.5	18.9	10.4	2.73													
55	32.5	27.3	19.1	8.83	2.22													
60	19.3	22.3	16.4	4.88	1.03													
65	2.32	9.29	7.59	1.30	0.34													
70	1.11	1.35	1.19	0.57	0.22													
75	0.32	0.44	0.46	0.25	0.13													
80	0.00	0.04	0.09	0.07	0.05													
85	0.00	0.00	0.00	0.00	0.01													
90	0.00	0.00	0.00	0.00	0.00													
95	0.01	0.00	0.00	0.00	0.00													
100	0.01	0.00	0.01	0.00	0.00													
105	0.01	0.01	0.01	0.00	0.00													
110	0.01	0.01	0.01	0.01	0.00													
115	0.01	0.01	0.01	0.01	0.01													
120	0.01	0.01	0.01	0.01	0.01													
125	0.01	0.01	0.01	0.01	0.01													
130	0.01	0.01	0.01	0.01	0.01													
135	0.01	0.01	0.01	0.01	0.01													
140	0.02	0.02	0.01	0.01	0.01													
145	0.02	0.02	0.02	0.02	0.01													
150	0.02	0.03	0.03	0.02	0.02													
155	0.02	0.03	0.04	0.05	0.03													
160	0.00	0.03	0.05	0.05	0.03													
165	0.00	0.02	0.03	0.03	0.03													
170	0.00	0.01	0.02	0.03	0.05													
175	0.00	0.01	0.03	0.06	0.06													
180	0.00	0.00	0.00	0.00	0.00													

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Oliver  
 Test Date: 2019-12-06

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity: 65.0%  
 Test Distance: 2.499m [K=1.0000]  
 Remarks: