

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

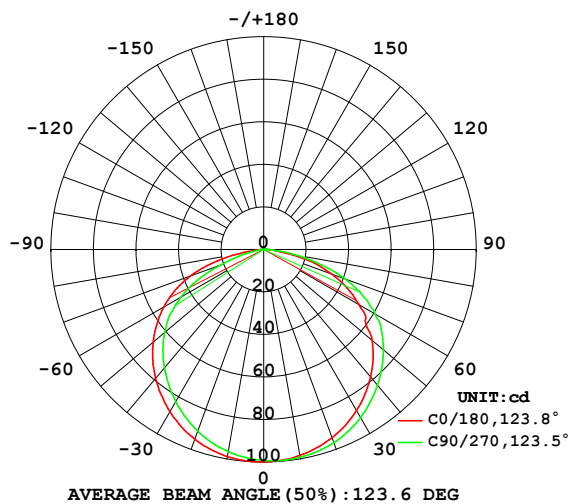
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LUMINAIRE PHOTOMETRIC TEST REPORT

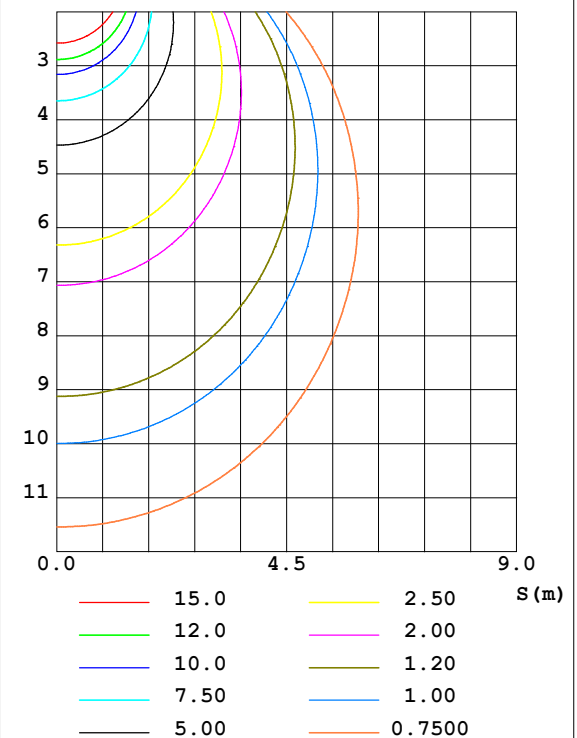
Test:U:12.00V I:1.050A P:12.60W PF:1.000 Lamp Flux:317.141x1 lm		
NAME: LED STRIP	TYPE:5050RGB-RGB	WEIGHT:
DIM.: 1000*10	SPEC.:1000*10	SERIAL No.:
MFR.: BLUEVISON		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 25.17 lm/W			
MODELS	5050L60V12RGB0IP20-10	I _{max} (cd)	99.87	S/MH (C0/180)	1.31
NOMINAL POWER (W)	12.6	LOR (%)	100.0	S/MH (C90/270)	1.24
RATED VOLTAGE (V)	12	TOTAL FLUX (lm)	317.14	η UP,DN (C0-180)	0.4,45.9
NOMINAL FLUX (lm)	317.141	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.5,53.2
LAMPS INSIDE	1	η up (%)	0.8	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)	12	η down (%)	99.2	CIBSE SHR MAX	1.50

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 28DEG
 Operators: KEVINLI
 Test Date: 2016-07-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.265
 Humidity: 65.0%
 Test Distance: 8.400m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	98.85	97.71	96.48	96.05	98.31	99.14	99.24	99.02	0- 10	9.428	9.428	2.97,2.97
20	94.91	92.84	90.88	90.52	94.12	95.80	96.60	96.38	10- 20	27.23	36.66	11.6,11.6
30	88.13	84.97	82.68	82.56	87.41	89.70	91.21	90.84	20- 30	41.94	78.60	24.8,24.8
40	79.10	74.92	72.60	72.59	78.26	80.93	83.26	82.98	30- 40	51.89	130.5	41.1,41.1
50	67.88	63.07	60.77	60.93	66.69	70.22	73.54	73.38	40- 50	56.21	186.7	58.9,58.9
60	54.31	49.12	45.06	46.61	51.61	57.16	60.54	61.65	50- 60	54.08	240.8	75.9,75.9
70	36.71	30.65	21.66	27.70	34.19	40.42	41.11	45.65	60- 70	44.11	284.9	89.8,89.8
80	12.18	7.203	2.868	7.380	11.68	17.68	15.42	21.54	70- 80	24.63	309.5	97.6,97.6
90	0.2727	0.1216	0.0995	0.1271	0.2696	0.7497	1.103	2.978	80- 90	4.920	314.4	99.2,99.2
100	0.1547	0.1991	0.1768	0.2101	0.1603	0.1216	0.1383	1.564	90-100	0.4422	314.9	99.3,99.3
110	0.2319	0.3040	0.3092	0.3095	0.2543	0.2153	0.2377	1.061	100-110	0.3517	315.2	99.4,99.4
120	0.3316	0.3980	0.4035	0.4146	0.3484	0.3206	0.3428	0.2708	110-120	0.3222	315.6	99.5,99.5
130	0.4200	0.4754	0.4864	0.4920	0.4423	0.4201	0.4478	0.3648	120-130	0.3520	315.9	99.6,99.6
140	0.4864	0.5528	0.5196	0.5584	0.5198	0.4919	0.5197	0.4477	130-140	0.3674	316.3	99.7,99.7
150	0.5251	0.6025	0.5915	0.6080	0.5915	0.5251	0.5804	0.5085	140-150	0.3409	316.6	99.8,99.8
160	0.5859	0.6413	0.6025	0.6413	0.6467	0.5804	0.6302	0.5859	150-160	0.2747	316.9	99.9,99.9
170	0.6577	0.6799	0.6578	0.6799	0.6854	0.6412	0.6688	0.6191	160-170	0.1796	317.1	100,100
180	0.6910	0.6910	0.6910	0.6965	0.6854	0.7020	0.7020	0.6965	170-180	0.0646	317.1	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:28DEG
 Operators:KEVINLI
 Test Date:2016-07-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
 Humidity:65.0%
 Test Distance:8.400m [K=1.0000]
 Remarks:

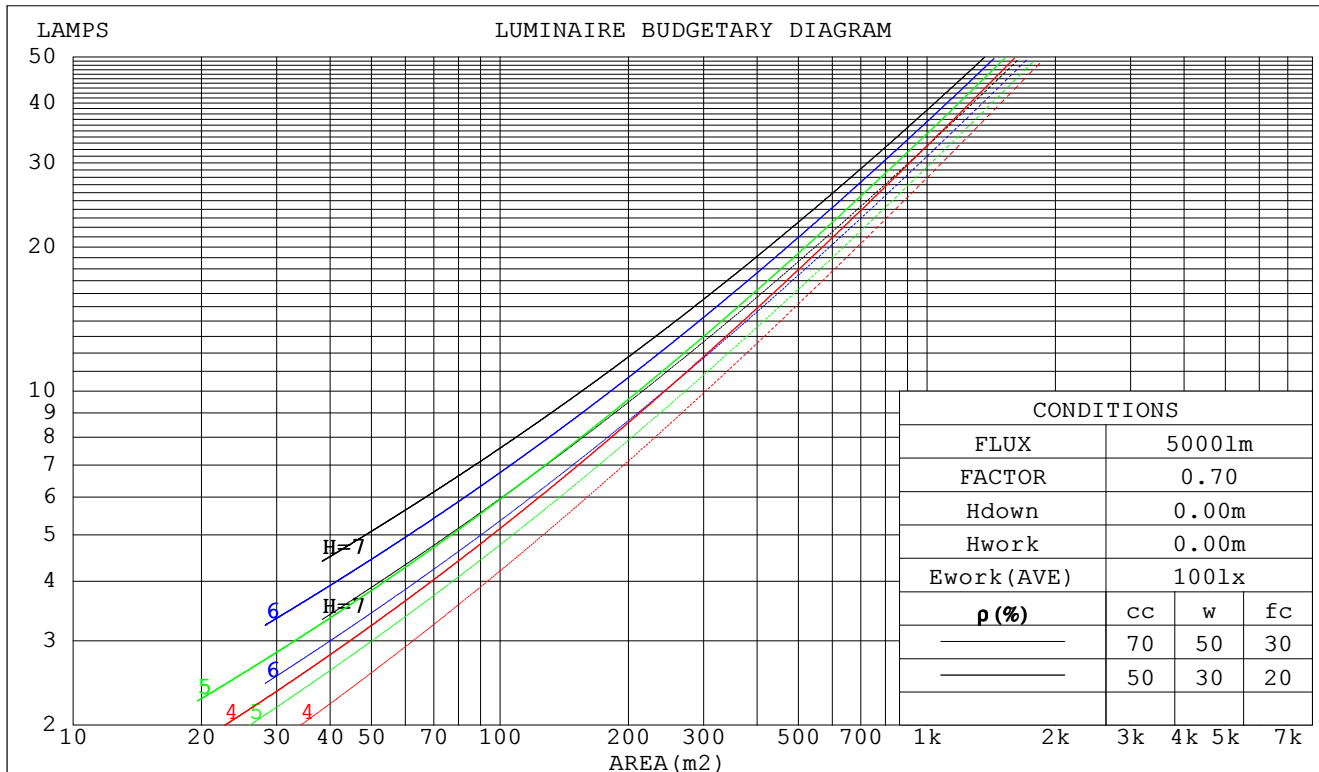
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:12.00V I:1.050A P:12.60W PF:1.000 Lamp Flux:317.141x1 lm		
NAME: LED STRIP	TYPE:5050RGB-RGB	WEIGHT:
DIM.: 1000*10	SPEC.:1000*10	SERIAL No.:
MFR.: BLUEVISON		

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	1.01	1.01	1.01	.99
1.0	1.03	.99	.95	1.01	.97	.93	.97	.93	.90	.92	.90	.87	.89	.87	.85	.82
2.0	.89	.82	.76	.87	.81	.75	.84	.78	.74	.80	.76	.72	.77	.73	.70	.68
3.0	.78	.70	.63	.76	.69	.62	.73	.67	.61	.70	.65	.60	.68	.63	.59	.56
4.0	.69	.60	.53	.67	.59	.52	.65	.57	.52	.62	.56	.51	.60	.54	.50	.48
5.0	.61	.52	.45	.60	.51	.45	.58	.50	.44	.56	.49	.44	.54	.48	.43	.41
6.0	.55	.46	.39	.54	.45	.39	.52	.44	.38	.50	.43	.38	.48	.42	.38	.35
7.0	.50	.41	.34	.49	.40	.34	.47	.39	.34	.46	.39	.34	.44	.38	.33	.31
8.0	.45	.36	.30	.44	.36	.30	.43	.35	.30	.42	.35	.30	.40	.34	.30	.28
9.0	.41	.33	.27	.41	.33	.27	.39	.32	.27	.38	.32	.27	.37	.31	.27	.25
10.0	.38	.30	.25	.38	.30	.25	.36	.29	.24	.35	.29	.24	.34	.28	.24	.22



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:28DEG
 Operators:KEVINLI
 Test Date:2016-07-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
 Humidity:65.0%
 Test Distance:8.400m [K=1.0000]
 Remarks:

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WEC AND CCEC

Test:U:12.00V I:1.050A P:12.60W PF:1.000 Lamp Flux:317.141x1 lm		
NAME: LED STRIP	TYPE:5050RGB-RGB	WEIGHT:
DIM.: 1000*10	SPEC.:1000*10	SERIAL No.:
MFR.: BLUEVISON		

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	.317	.180	.057	.309	.176	.056	.295	.169	.054	.283	.163	.052	.271	.157	.051		
2.0	.299	.164	.050	.293	.161	.050	.281	.156	.048	.269	.151	.047	.259	.147	.046		
3.0	.277	.147	.044	.271	.145	.044	.260	.141	.043	.250	.137	.042	.241	.134	.041		
4.0	.255	.133	.039	.250	.131	.039	.241	.128	.038	.232	.124	.038	.223	.121	.037		
5.0	.236	.120	.035	.231	.119	.035	.222	.116	.034	.214	.113	.034	.207	.111	.033		
6.0	.218	.109	.031	.214	.108	.031	.206	.106	.031	.199	.104	.030	.193	.101	.030		
7.0	.203	.100	.028	.199	.099	.028	.192	.097	.028	.186	.095	.028	.180	.093	.027		
8.0	.189	.092	.026	.186	.091	.026	.180	.090	.026	.174	.088	.025	.168	.086	.025		
9.0	.177	.086	.024	.174	.085	.024	.168	.083	.024	.163	.082	.023	.158	.080	.023		
10.0	.166	.080	.022	.163	.079	.022	.158	.078	.022	.154	.076	.022	.149	.075	.022		

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	.197	.197	.197	.168	.168	.168	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.187	.163	.140	.160	.140	.121	.110	.096	.084	.063	.056	.049	.020	.018	.016	
2.0	.180	.138	.104	.154	.119	.090	.106	.082	.062	.061	.048	.037	.020	.016	.012	
3.0	.172	.121	.080	.148	.104	.069	.102	.072	.049	.059	.042	.029	.019	.014	.009	
4.0	.165	.108	.064	.142	.093	.056	.097	.065	.039	.056	.038	.023	.018	.012	.008	
5.0	.158	.097	.053	.135	.084	.046	.093	.059	.033	.054	.035	.019	.017	.011	.006	
6.0	.150	.089	.045	.129	.077	.039	.089	.054	.028	.052	.032	.017	.017	.010	.005	
7.0	.144	.082	.039	.123	.071	.034	.085	.050	.024	.050	.029	.014	.016	.010	.005	
8.0	.137	.077	.035	.118	.066	.031	.082	.047	.022	.047	.027	.013	.015	.009	.004	
9.0	.131	.072	.032	.113	.062	.028	.078	.044	.020	.045	.026	.012	.015	.008	.004	
10.0	.125	.067	.029	.108	.058	.025	.075	.041	.018	.044	.024	.011	.014	.008	.004	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:28DEG
Operators:KEVINLI
Test Date:2016-07-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:8.400m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

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Uncorrected UGR Table

Test:U:12.00V I:1.050A P:12.60W PF:1.000 Lamp Flux:317.141x1 lm										
NAME: LED STRIP					TYPE:5050RGB-RGB			WEIGHT:		
DIM.: 1000*10					SPEC.:1000*10			SERIAL No.:		
MFR.: BLUEVISON										
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	21.1	22.7	21.4	22.9	23.1	20.5	22.0	20.8	22.2	22.5
3H	22.9	24.4	23.3	24.6	24.9	21.7	23.1	22.0	23.4	23.6
4H	23.6	25.0	23.9	25.2	25.5	21.9	23.3	22.3	23.6	23.8
6H	24.0	25.3	24.3	25.5	25.8	21.9	23.2	22.3	23.5	23.8
8H	24.0	25.2	24.4	25.5	25.9	21.9	23.1	22.2	23.4	23.7
12H	24.0	25.2	24.3	25.5	25.8	21.8	23.0	22.2	23.3	23.7
4H 2H	21.7	23.1	22.0	23.3	23.6	21.2	22.6	21.5	22.8	23.1
3H	23.7	24.9	24.0	25.2	25.5	22.6	23.8	22.9	24.1	24.4
4H	24.4	25.5	24.8	25.8	26.2	22.9	24.0	23.3	24.3	24.7
6H	24.8	25.8	25.3	26.2	26.6	23.0	23.9	23.4	24.3	24.7
8H	24.9	25.8	25.3	26.2	26.6	22.9	23.8	23.4	24.2	24.6
12H	24.9	25.7	25.3	26.1	26.5	22.9	23.7	23.3	24.1	24.5
8H 4H	24.5	25.4	24.9	25.8	26.2	23.1	24.0	23.6	24.4	24.8
6H	25.0	25.8	25.5	26.2	26.6	23.3	24.0	23.7	24.4	24.9
8H	25.1	25.8	25.6	26.2	26.7	23.3	23.9	23.7	24.4	24.8
12H	25.1	25.7	25.6	26.2	26.6	23.2	23.8	23.7	24.3	24.8
12H 4H	24.5	25.3	24.9	25.7	26.1	23.1	24.0	23.6	24.4	24.8
6H	25.0	25.7	25.5	26.1	26.6	23.3	23.9	23.8	24.4	24.9
8H	25.1	25.7	25.6	26.1	26.6	23.3	23.8	23.8	24.3	24.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.3				
1.5H	+ 0.1 / - 0.3					+ 0.2 / - 0.5				
2.0H	+ 0.2 / - 0.3					+ 0.3 / - 0.6				

CIE Pub.117 Corrected 317.1 lm Total Lamp Luminous Flux. (8log(F/F0) = -4.0)

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:28DEG
Operators:KEVINLI
Test Date:2016-07-30

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:8.400m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

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UTILIZATION FACTORS TABLE

Test:U:12.00V I:1.050A P:12.60W PF:1.000 Lamp Flux:317.141x1 lm		
NAME: LED STRIP	TYPE:5050RGB-RGB	WEIGHT:
DIM.: 1000*10	SPEC.:1000*10	SERIAL No.:
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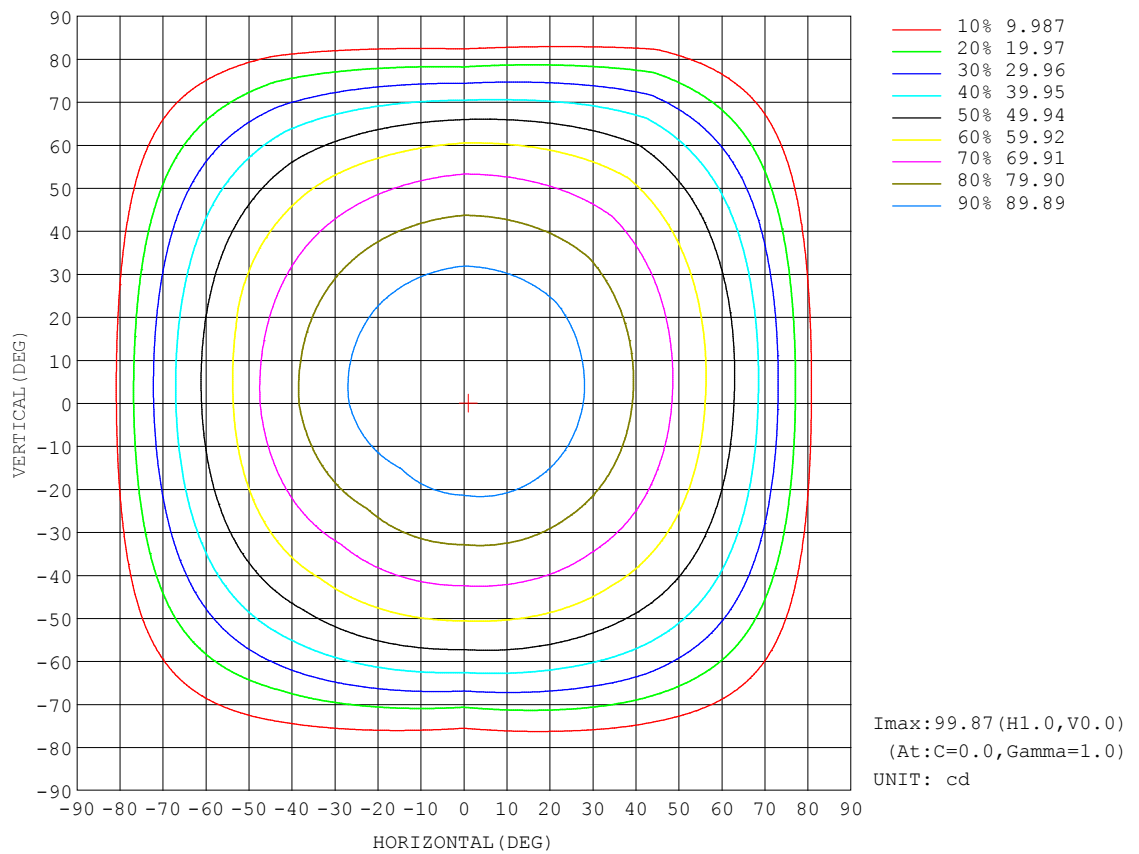
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	44	36	55	43	36	53	43	36	30
0.80	66	54	46	64	53	46	63	52	45	38
1.00	74	63	55	73	62	55	70	63	54	47
1.25	81	70	63	80	70	63	77	68	62	54
1.50	87	76	69	85	75	68	82	73	67	59
2.00	94	85	78	92	84	77	88	81	76	67
2.50	98	90	83	96	88	83	92	86	81	72
3.00	101	94	89	99	93	87	95	90	85	76
4.00	106	100	95	103	98	93	99	94	91	81
5.00	108	103	99	106	101	97	101	97	94	85
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
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 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
 Humidity:65.0%
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 Remarks:

ISOCANDELA DIAGRAM

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NAME: LED STRIP	TYPE:5050RGB-RGB	WEIGHT:
DIM.: 1000*10	SPEC.:1000*10	SERIAL No.:
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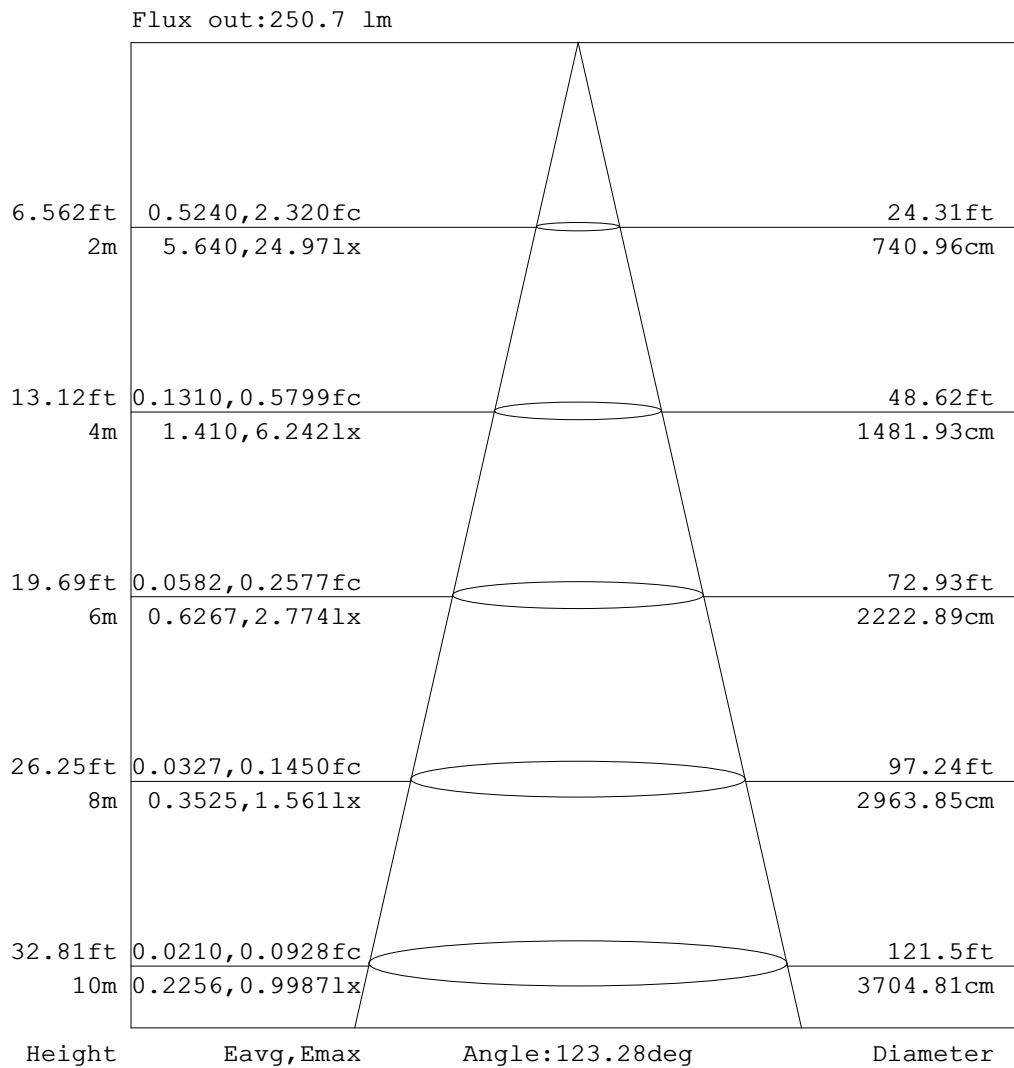


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AAI Figure

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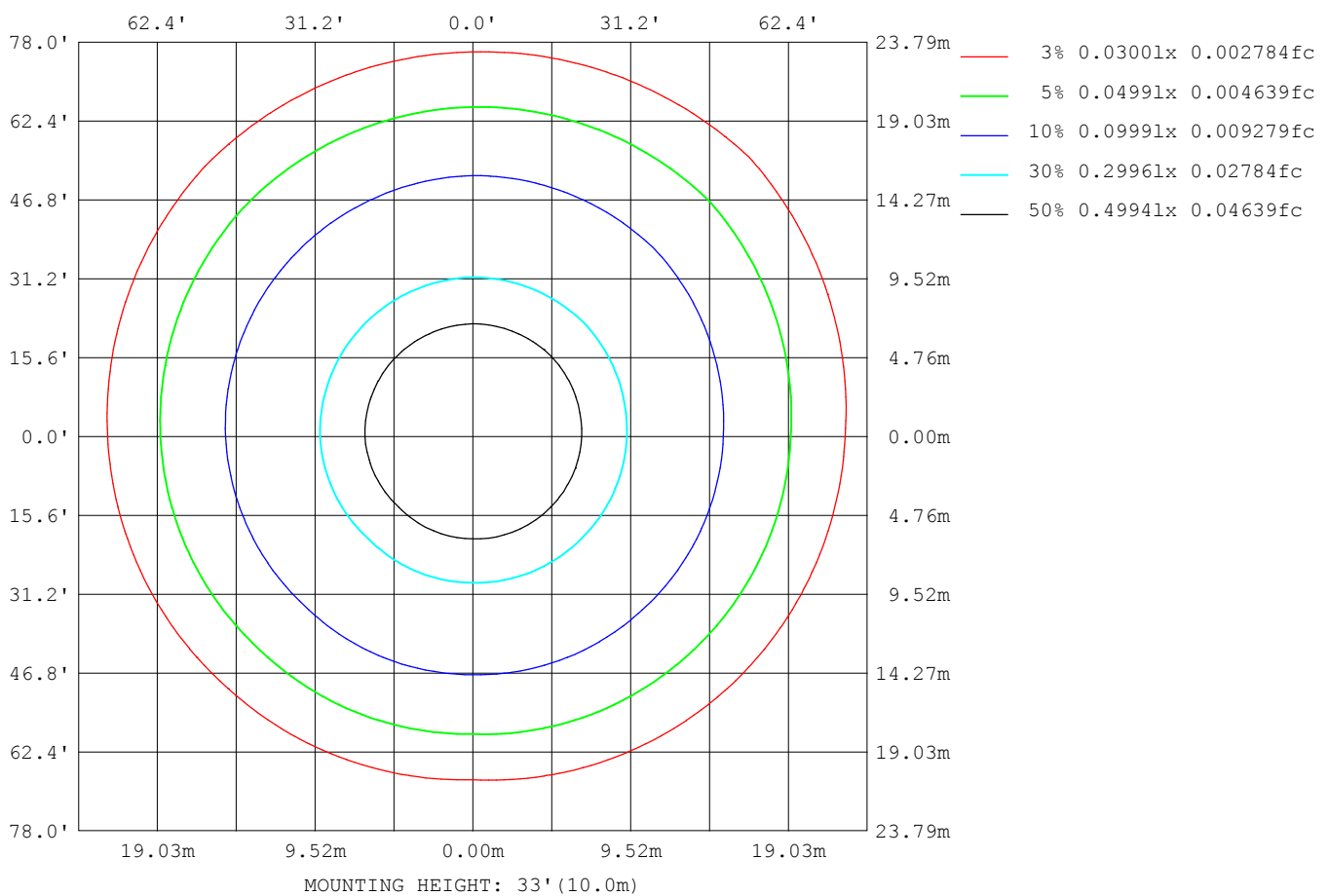
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:8.400m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

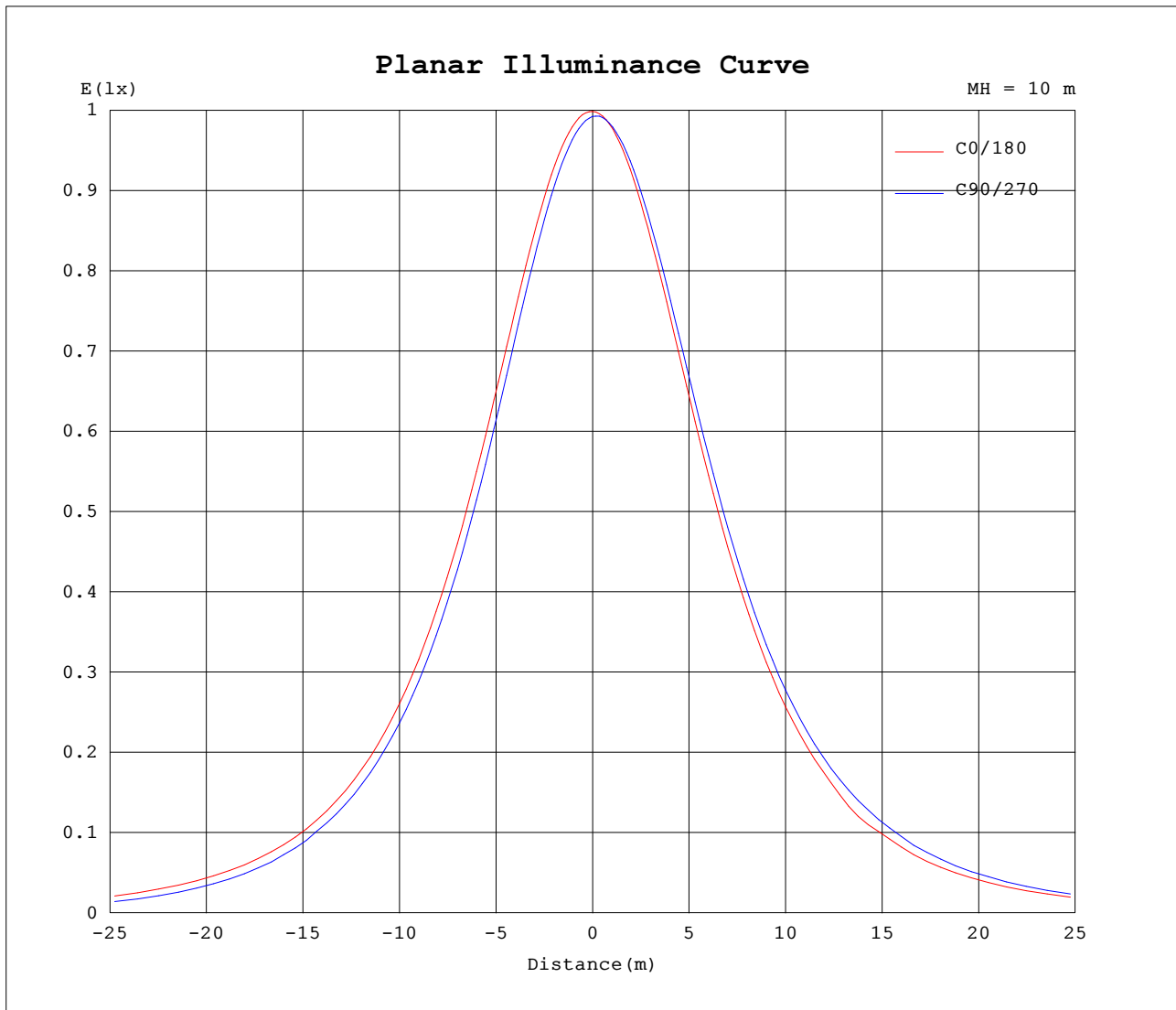
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Planar Illuminance Curve



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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

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LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:12.00V I:1.050A P:12.60W PF:1.000 Lamp Flux:317.141x1 lm		
NAME: LED STRIP	TYPE:5050RGB-RGB	WEIGHT:
DIM.: 1000*10	SPEC.:1000*10	SERIAL No.:
MFR.: BLUEVISON		

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315										
0	99.9	99.7	99.2	98.9	99.9	99.7	99.2	98.9										
5	99.7	99.0	98.2	97.8	99.4	99.8	99.5	99.2										
10	98.9	97.7	96.5	96.1	98.3	99.1	99.2	99.0										
15	97.3	95.7	94.0	93.6	96.5	97.8	98.3	98.1										
20	94.9	92.8	90.9	90.5	94.1	95.8	96.6	96.4										
25	91.8	89.3	87.1	86.9	91.1	93.1	94.3	94.0										
30	88.1	85.0	82.7	82.6	87.4	89.7	91.2	90.8										
35	83.8	80.2	77.8	77.8	83.1	85.6	87.5	87.1										
40	79.1	74.9	72.6	72.6	78.3	80.9	83.3	83.0										
45	73.8	69.2	67.0	67.0	72.7	75.8	78.6	78.4										
50	67.9	63.1	60.8	60.9	66.7	70.2	73.5	73.4										
55	61.5	56.5	54.0	54.1	58.3	64.0	67.9	67.8										
60	54.3	49.1	45.1	46.6	51.6	57.2	60.5	61.7										
65	46.2	40.7	34.6	38.2	43.5	49.4	51.4	54.5										
70	36.7	30.6	21.7	27.7	34.2	40.4	41.1	45.7										
75	25.2	18.0	11.0	16.1	24.4	29.4	28.2	34.5										
80	12.2	7.20	2.87	7.38	11.7	17.7	15.4	21.5										
85	2.49	1.08	0.38	1.27	3.11	5.90	4.65	8.88										
90	0.27	0.12	0.10	0.13	0.27	0.75	1.10	2.98										
95	0.13	0.15	0.14	0.16	0.11	0.12	0.10	1.93										
100	0.15	0.20	0.18	0.21	0.16	0.12	0.14	1.56										
105	0.15	0.25	0.23	0.25	0.22	0.15	0.19	1.29										
110	0.23	0.30	0.31	0.31	0.25	0.22	0.24	1.06										
115	0.24	0.35	0.33	0.36	0.31	0.25	0.29	0.25										
120	0.33	0.40	0.40	0.41	0.35	0.32	0.34	0.27										
125	0.34	0.44	0.41	0.45	0.40	0.35	0.39	0.32										
130	0.42	0.48	0.49	0.49	0.44	0.42	0.45	0.36										
135	0.42	0.52	0.50	0.53	0.48	0.43	0.48	0.41										
140	0.49	0.55	0.52	0.56	0.52	0.49	0.52	0.45										
145	0.51	0.58	0.57	0.59	0.56	0.51	0.55	0.50										
150	0.53	0.60	0.59	0.61	0.59	0.53	0.58	0.51										
155	0.57	0.63	0.59	0.63	0.62	0.58	0.61	0.56										
160	0.59	0.64	0.60	0.64	0.65	0.58	0.63	0.59										
165	0.62	0.66	0.62	0.67	0.67	0.60	0.65	0.60										
170	0.66	0.68	0.66	0.68	0.69	0.64	0.67	0.62										
175	0.68	0.70	0.68	0.69	0.69	0.67	0.68	0.67										
180	0.69	0.69	0.69	0.70	0.69	0.70	0.70	0.70										

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:28DEG
Operators:KEVINLI
Test Date:2016-07-30

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:8.400m [K=1.0000]
Remarks: