

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

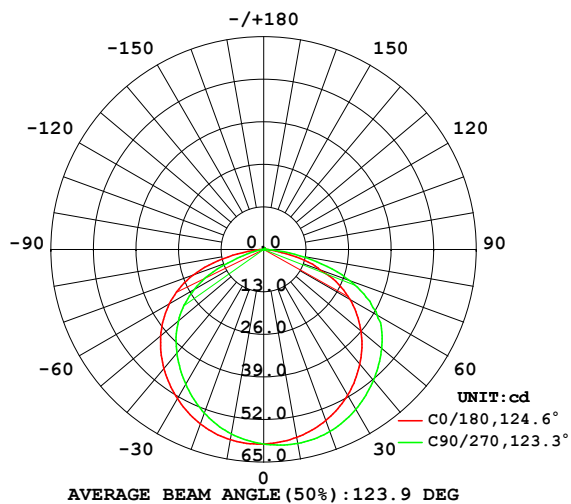
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LUMINAIRE PHOTOMETRIC TEST REPORT

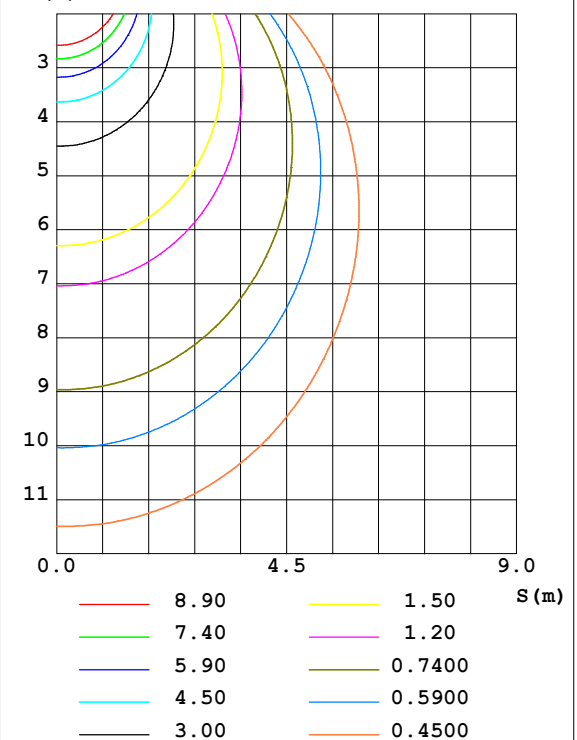
Test:U:12.00V I:0.2985A P:3.582W PF:1.000 Lamp Flux:190.864x1 lm		
NAME: LED STRIP	TYPE:5050RGB-G	WEIGHT:
DIM.: 1000*10	SPEC.:1000*10	SERIAL No.:
MFR.: BLUEVISON		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 53.28 lm/W			
MODELS	5050L60V12RGB0IP20-10	I _{max} (cd)	60.17	S/MH (C0/180)	1.32
NOMINAL POWER(W)	3.582	LOR(%)	100.0	S/MH (C90/270)	1.20
RATED VOLTAGE(V)	12	TOTAL FLUX (lm)	190.86	η UP,DN (C0-180)	0.4,44.2
NOMINAL FLUX(lm)	190.864	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.4,55.0
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	59.03	57.95	57.22	57.24	58.29	59.53	60.17	60.00	0- 10	5.638	5.638	2.95,2.95
20	56.70	54.57	53.16	53.46	55.60	57.99	59.17	58.92	10- 20	16.29	21.92	11.5,11.5
30	52.70	49.48	47.61	48.29	51.38	54.57	56.40	55.89	20- 30	25.05	46.97	24.6,24.6
40	47.48	43.31	41.29	42.05	45.77	49.47	52.19	51.68	30- 40	30.98	77.95	40.8,40.8
50	41.11	36.41	34.05	34.92	38.85	43.21	47.10	46.69	40- 50	33.67	111.6	58.5,58.5
60	33.32	28.13	24.56	26.27	30.40	35.71	40.00	40.42	50- 60	32.68	144.3	75.6,75.6
70	22.96	17.20	10.11	14.69	18.35	25.83	28.18	30.97	60- 70	26.87	171.2	89.7,89.7
80	8.160	3.767	1.381	3.420	5.666	11.69	11.28	15.34	70- 80	15.00	186.2	97.5,97.5
90	0.2448	0.0554	0.0608	0.0774	0.1265	0.4611	0.7992	1.705	80- 90	3.215	189.4	99.2,99.2
100	0.0608	0.1161	0.0939	0.1272	0.0940	0.0497	0.0609	0.7519	90-100	0.2363	189.6	99.3,99.3
110	0.0829	0.1769	0.1603	0.1990	0.1548	0.0828	0.1327	0.4090	100-110	0.1743	189.8	99.4,99.4
120	0.1603	0.2267	0.2322	0.2543	0.1990	0.1603	0.1879	0.1548	110-120	0.1748	190.0	99.5,99.5
130	0.2154	0.2764	0.2762	0.2985	0.2598	0.2155	0.2432	0.1768	120-130	0.1934	190.2	99.6,99.6
140	0.2377	0.3206	0.3482	0.3372	0.3095	0.2432	0.2930	0.2266	130-140	0.2093	190.4	99.7,99.7
150	0.3205	0.3372	0.3482	0.3593	0.3427	0.3095	0.3261	0.2874	140-150	0.1926	190.6	99.8,99.8
160	0.3317	0.3814	0.3482	0.3815	0.3759	0.3317	0.3648	0.3427	150-160	0.1602	190.7	99.9,99.9
170	0.3593	0.3925	0.3869	0.3925	0.3980	0.3482	0.3870	0.3427	160-170	0.1030	190.8	100,100
180	0.4201	0.4090	0.4035	0.4035	0.4090	0.4035	0.4090	0.4090	170-180	0.0372	190.9	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
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 Humidity:65.0%
 Test Distance:8.400m [K=1.0000]
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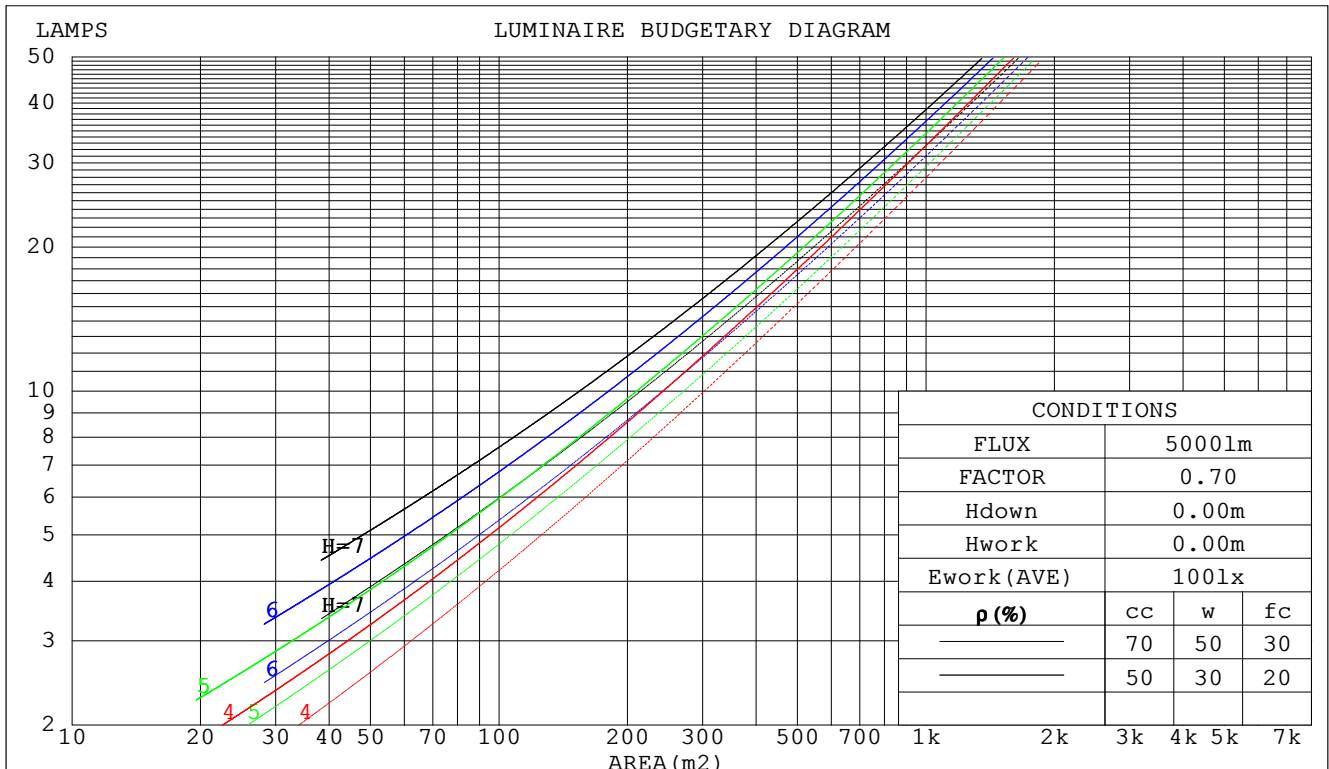
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:12.00V I:0.2985A P:3.582W PF:1.000 Lamp Flux:190.864x1 lm		
NAME: LED STRIP	TYPE:5050RGB-G	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	.96	.93	.90	.92	.90	.87	.89	.86	.84	.82
2.0	.89	.82	.76	.87	.81	.75	.84	.78	.73	.80	.76	.72	.77	.73	.70	.68
3.0	.78	.69	.63	.76	.68	.62	.73	.66	.61	.70	.64	.60	.67	.63	.58	.56
4.0	.69	.59	.53	.67	.59	.52	.65	.57	.51	.62	.56	.50	.60	.54	.50	.47
5.0	.61	.52	.45	.60	.51	.45	.58	.50	.44	.55	.49	.43	.54	.48	.43	.41
6.0	.55	.45	.39	.54	.45	.39	.52	.44	.38	.50	.43	.38	.48	.42	.37	.35
7.0	.49	.40	.34	.49	.40	.34	.47	.39	.34	.45	.38	.33	.44	.38	.33	.31
8.0	.45	.36	.30	.44	.36	.30	.43	.35	.30	.42	.35	.30	.40	.34	.29	.27
9.0	.41	.33	.27	.41	.33	.27	.39	.32	.27	.38	.31	.27	.37	.31	.26	.25
10.0	.38	.30	.24	.37	.30	.24	.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:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

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WEC AND CCEC

Test:U:12.00V I:0.2985A P:3.582W PF:1.000 Lamp Flux:190.864x1 lm		
NAME: LED STRIP	TYPE:5050RGB-G	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	.319	.181	.057	.312	.178	.056	.298	.171	.055	.285	.164	.053	.273	.159	.051															
2.0	.301	.165	.051	.295	.162	.050	.282	.157	.049	.271	.152	.048	.261	.147	.046															
3.0	.278	.148	.044	.273	.146	.044	.262	.142	.043	.252	.138	.042	.242	.134	.042															
4.0	.256	.133	.039	.251	.131	.039	.242	.128	.038	.233	.125	.038	.224	.122	.037															
5.0	.236	.120	.035	.232	.119	.035	.223	.116	.034	.215	.114	.034	.208	.111	.033															
6.0	.219	.110	.031	.215	.108	.031	.207	.106	.031	.200	.104	.031	.193	.102	.030															
7.0	.203	.100	.028	.200	.099	.028	.193	.097	.028	.186	.095	.028	.180	.094	.028															
8.0	.189	.093	.026	.186	.092	.026	.180	.090	.026	.174	.088	.025	.169	.087	.025															
9.0	.177	.086	.024	.174	.085	.024	.169	.083	.024	.164	.082	.023	.159	.081	.023															
10.0	.166	.080	.022	.164	.079	.022	.159	.078	.022	.154	.076	.022	.150	.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	.196	.196	.196	.168	.168	.168	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.187	.162	.140	.160	.139	.120	.109	.096	.083	.063	.055	.048	.020	.018	.016	
2.0	.179	.138	.103	.154	.119	.089	.105	.082	.062	.061	.048	.036	.019	.015	.012	
3.0	.172	.120	.079	.148	.104	.069	.101	.072	.048	.059	.042	.028	.019	.014	.009	
4.0	.165	.107	.063	.141	.093	.055	.097	.065	.039	.056	.038	.023	.018	.012	.008	
5.0	.157	.097	.052	.135	.084	.046	.093	.059	.032	.054	.034	.019	.017	.011	.006	
6.0	.150	.089	.045	.129	.077	.039	.089	.054	.027	.052	.032	.016	.017	.010	.005	
7.0	.143	.082	.039	.123	.071	.034	.085	.050	.024	.049	.029	.014	.016	.010	.005	
8.0	.137	.076	.034	.118	.066	.030	.081	.046	.021	.047	.027	.013	.015	.009	.004	
9.0	.130	.071	.031	.112	.062	.027	.078	.043	.019	.045	.026	.011	.015	.008	.004	
10.0	.125	.067	.028	.107	.058	.025	.075	.041	.018	.043	.024	.010	.014	.008	.003	

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:0.2985A P:3.582W PF:1.000 Lamp Flux:190.864x1 lm										
NAME: LED STRIP					TYPE:5050RGB-G			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	19.3	20.9	19.6	21.1	21.3	18.2	19.8	18.5	20.0	20.2
3H	21.2	22.6	21.5	22.9	23.1	19.3	20.7	19.6	21.0	21.2
4H	21.9	23.3	22.2	23.5	23.8	19.4	20.8	19.7	21.0	21.3
6H	22.3	23.6	22.6	23.9	24.2	19.4	20.7	19.7	21.0	21.3
8H	22.3	23.6	22.7	23.9	24.2	19.3	20.6	19.7	20.9	21.2
12H	22.3	23.5	22.7	23.8	24.2	19.3	20.5	19.6	20.8	21.1
4H 2H	19.8	21.2	20.1	21.5	21.7	19.0	20.3	19.3	20.6	20.9
3H	21.8	23.0	22.2	23.3	23.7	20.2	21.4	20.5	21.7	22.0
4H	22.6	23.7	23.0	24.0	24.4	20.4	21.5	20.8	21.8	22.2
6H	23.1	24.1	23.5	24.4	24.8	20.4	21.4	20.8	21.8	22.1
8H	23.2	24.1	23.6	24.5	24.9	20.4	21.3	20.8	21.7	22.1
12H	23.2	24.0	23.6	24.4	24.8	20.3	21.2	20.8	21.6	22.0
8H 4H	22.7	23.6	23.1	23.9	24.3	20.6	21.5	21.1	21.9	22.3
6H	23.2	24.0	23.7	24.4	24.8	20.7	21.5	21.2	21.9	22.3
8H	23.3	24.0	23.8	24.4	24.9	20.7	21.4	21.2	21.8	22.3
12H	23.4	23.9	23.8	24.4	24.9	20.7	21.2	21.2	21.7	22.2
12H 4H	22.6	23.5	23.1	23.9	24.3	20.6	21.5	21.1	21.9	22.3
6H	23.2	23.9	23.7	24.3	24.8	20.7	21.4	21.2	21.8	22.3
8H	23.3	23.9	23.8	24.3	24.8	20.7	21.3	21.2	21.8	22.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.2 / - 0.3				
1.5H	+ 0.1 / - 0.2					+ 0.3 / - 0.5				
2.0H	+ 0.2 / - 0.4					+ 0.3 / - 0.7				

CIE Pub.117 Corrected 190.9 lm Total Lamp Luminous Flux.(8log(F/F0) = -5.8)

C Range: 0 - 360DEG
C Interval: 45.0DEG
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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:0.2985A P:3.582W PF:1.000 Lamp Flux:190.864x1 lm		
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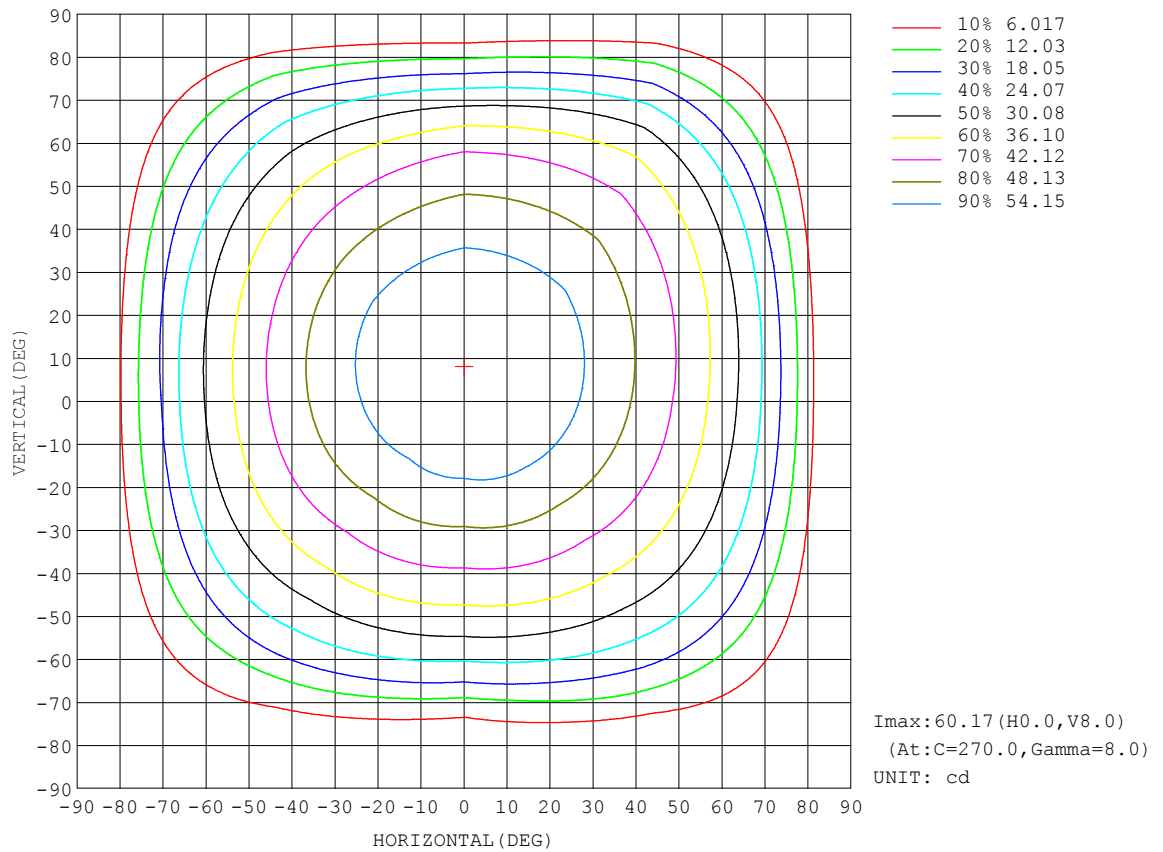
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	55	43	36	55	43	36	53	43	36	29
0.80	65	53	46	64	53	46	62	52	45	38
1.00	74	62	55	73	62	54	70	63	54	46
1.25	81	70	63	80	69	62	77	68	61	54
1.50	86	76	69	85	75	68	81	73	67	59
2.00	94	85	78	92	83	77	88	81	75	67
2.50	98	90	83	96	88	82	92	85	80	72
3.00	101	94	88	99	92	87	95	89	85	76
4.00	105	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		

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 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
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 Remarks:

ISOCANDELA DIAGRAM

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NAME: LED STRIP	TYPE:5050RGB-G	WEIGHT:
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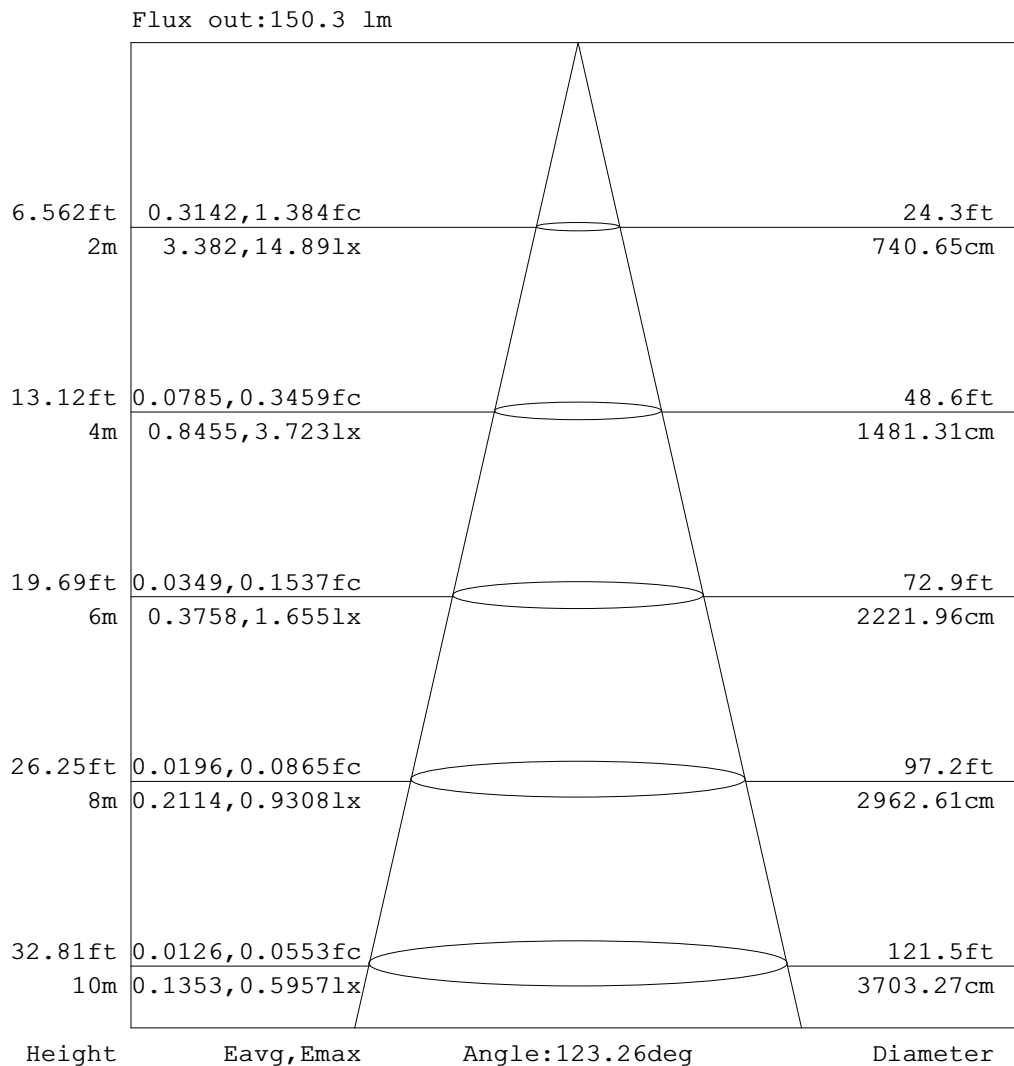


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AAI Figure

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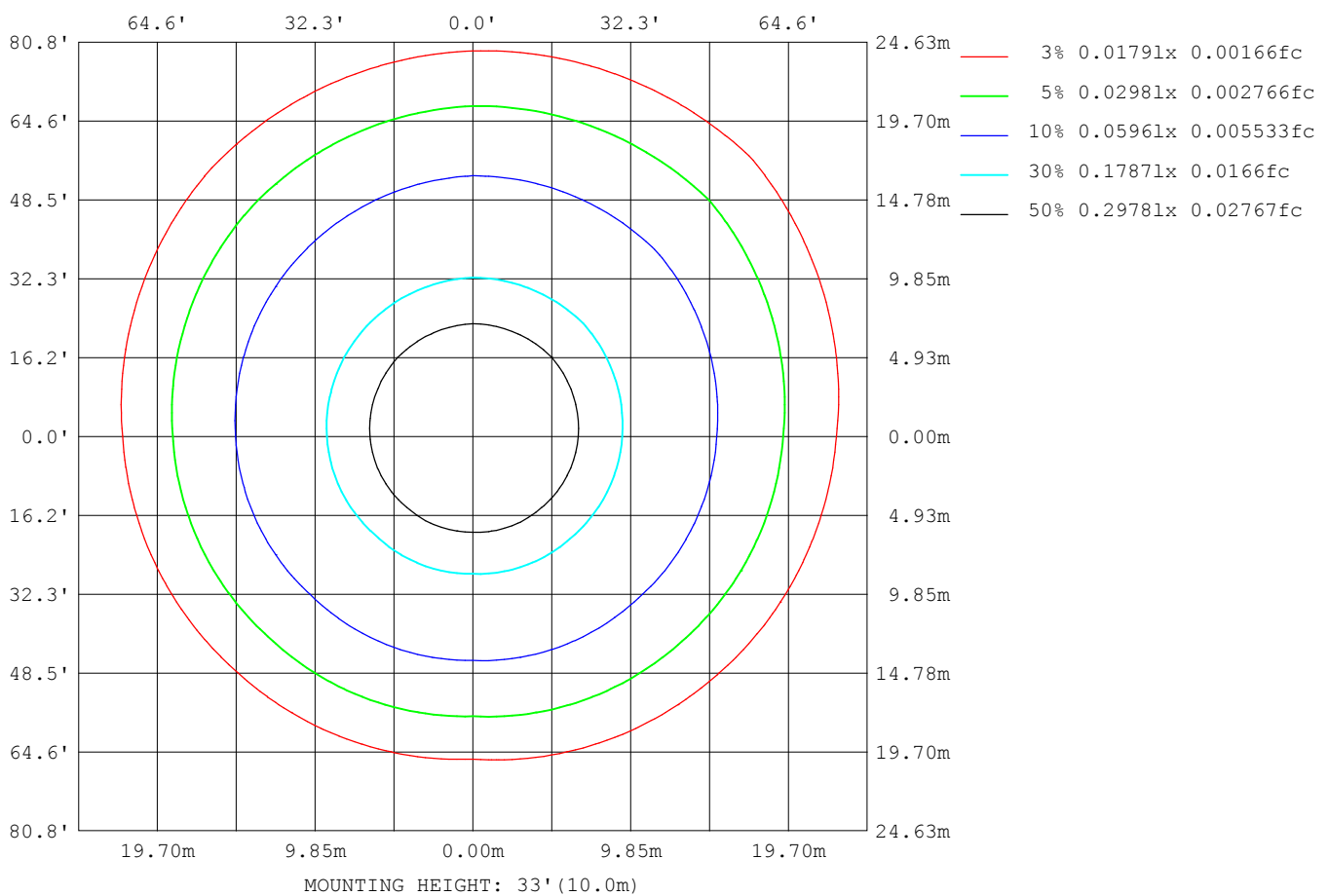
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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Remarks:

ISOLUX DIAGRAM

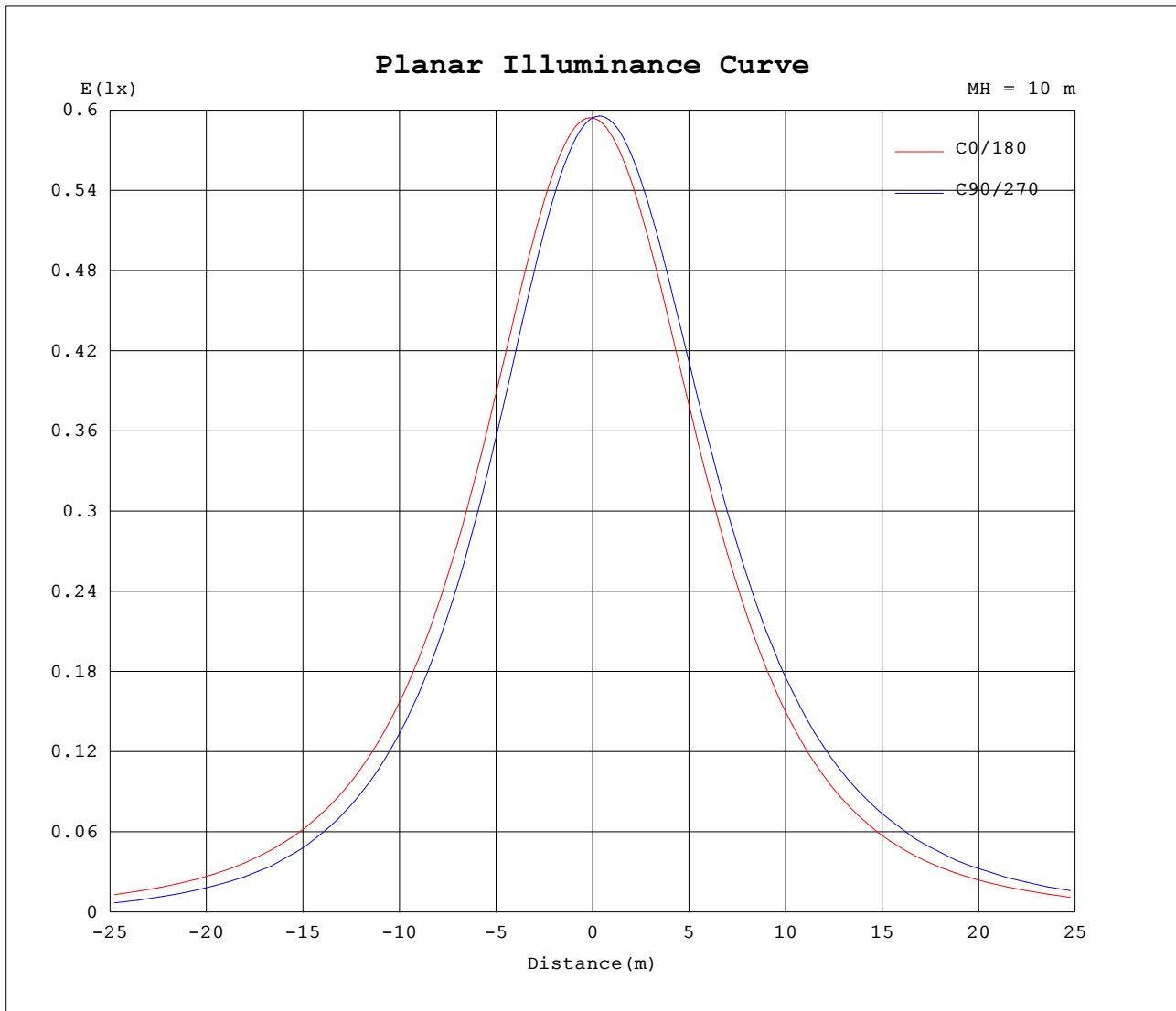
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Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:12.00V I:0.2985A P:3.582W PF:1.000 Lamp Flux:190.864x1 lm		
NAME: LED STRIP	TYPE:5050RGB-G	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	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4										
5	59.5	58.9	58.6	58.5	59.0	59.6	60.0	59.9										
10	59.0	58.0	57.2	57.2	58.3	59.5	60.2	60.0										
15	58.1	56.5	55.4	55.5	57.1	59.0	59.9	59.7										
20	56.7	54.6	53.2	53.5	55.6	58.0	59.2	58.9										
25	54.9	52.2	50.5	51.0	53.7	56.5	58.0	57.6										
30	52.7	49.5	47.6	48.3	51.4	54.6	56.4	55.9										
35	50.2	46.5	44.5	45.3	48.7	52.2	54.4	53.9										
40	47.5	43.3	41.3	42.1	45.8	49.5	52.2	51.7										
45	44.5	40.0	37.9	38.6	42.5	46.5	49.7	49.3										
50	41.1	36.4	34.1	34.9	38.9	43.2	47.1	46.7										
55	37.4	32.5	29.8	30.8	34.8	39.7	44.1	43.8										
60	33.3	28.1	24.6	26.3	30.4	35.7	40.0	40.4										
65	28.6	23.1	18.4	21.3	25.3	31.2	34.6	36.3										
70	23.0	17.2	10.1	14.7	18.3	25.8	28.2	31.0										
75	16.0	9.11	4.72	7.39	13.0	19.3	20.1	23.7										
80	8.16	3.77	1.38	3.42	5.67	11.7	11.3	15.3										
85	1.84	0.60	0.21	0.67	1.61	3.87	3.62	6.29										
90	0.24	0.06	0.06	0.08	0.13	0.46	0.80	1.71										
95	0.07	0.08	0.06	0.10	0.07	0.05	0.04	0.97										
100	0.06	0.12	0.09	0.13	0.09	0.05	0.06	0.75										
105	0.06	0.15	0.15	0.17	0.12	0.05	0.09	0.54										
110	0.08	0.18	0.16	0.20	0.15	0.08	0.13	0.41										
115	0.14	0.20	0.21	0.22	0.18	0.15	0.15	0.13										
120	0.16	0.23	0.23	0.25	0.20	0.16	0.19	0.15										
125	0.16	0.25	0.24	0.29	0.23	0.16	0.22	0.15										
130	0.22	0.28	0.28	0.30	0.26	0.22	0.24	0.18										
135	0.23	0.30	0.32	0.32	0.28	0.24	0.27	0.23										
140	0.24	0.32	0.35	0.34	0.31	0.24	0.29	0.23										
145	0.26	0.34	0.35	0.35	0.33	0.27	0.31	0.25										
150	0.32	0.34	0.35	0.36	0.34	0.31	0.33	0.29										
155	0.33	0.36	0.35	0.38	0.36	0.33	0.34	0.33										
160	0.33	0.38	0.35	0.38	0.38	0.33	0.36	0.34										
165	0.33	0.39	0.36	0.39	0.39	0.33	0.37	0.34										
170	0.36	0.39	0.39	0.39	0.40	0.35	0.39	0.34										
175	0.41	0.40	0.40	0.40	0.41	0.39	0.40	0.38										
180	0.42	0.41	0.40	0.40	0.41	0.40	0.41	0.41										

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: