

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

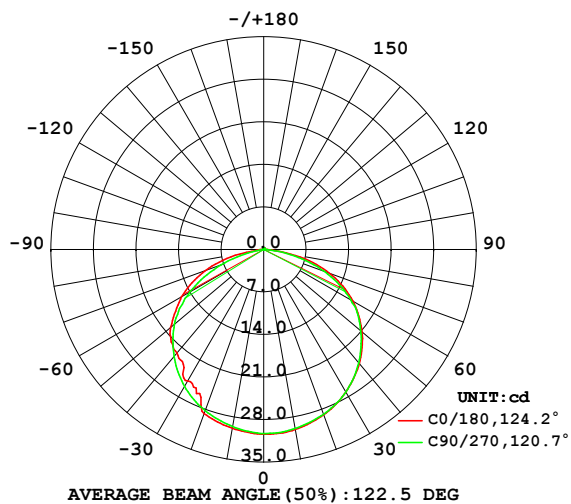
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LUMINAIRE PHOTOMETRIC TEST REPORT

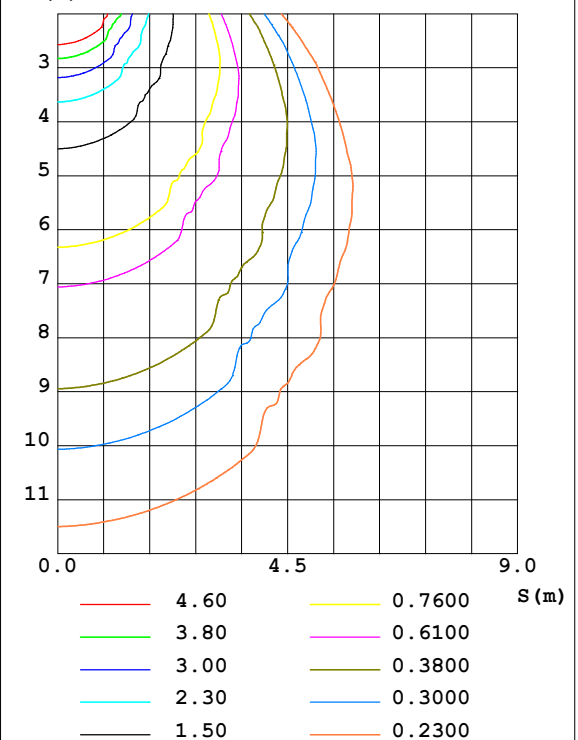
Test:U:12.00V I:0.4535A P:5.442W PF:1.000 Lamp Flux:94.7984x1 lm		
NAME: LED STRIP	TYPE:5050RGB-R	WEIGHT:
DIM.: 1000*10	SPEC.:1000*10	SERIAL No.:
MFR.: BLUEVISON		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 17.42 lm/W			
MODELS	5050L60V12RGB0IP20-10	I _{max} (cd)	30.40	S/MH (C0/180)	1.25
NOMINAL POWER(W)	5.442	LOR(%)	100.0	S/MH (C90/270)	1.28
RATED VOLTAGE(V)	12	TOTAL FLUX (lm)	94.798	η UP,DN (C0-180)	0.3,47.0
NOMINAL FLUX(lm)	94.7984	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.4,52.3
LAMPS INSIDE	1	η up (%)	0.7	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)	12	η down (%)	99.3	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	29.87	29.67	29.58	29.57	30.08	30.13	29.91	29.88	0- 10	2.870	2.870	3.03,3.03
20	28.73	28.36	28.22	28.15	28.95	28.95	28.85	28.83	10- 20	8.283	11.15	11.8,11.8
30	25.01	26.17	26.05	26.00	27.08	27.10	27.06	27.00	20- 30	12.70	23.86	25.2,25.2
40	22.23	23.13	22.95	23.12	24.50	24.52	24.35	24.30	30- 40	15.72	39.58	41.7,41.7
50	20.04	19.17	19.18	19.50	21.15	21.19	20.87	20.66	40- 50	17.01	56.59	59.7,59.7
60	15.65	14.54	14.04	15.13	16.92	17.02	16.58	16.30	50- 60	16.17	72.76	76.7,76.7
70	10.20	8.949	7.503	9.546	11.58	11.77	10.70	11.20	60- 70	12.93	85.69	90.4,90.4
80	2.938	1.850	0.7219	2.855	4.567	5.293	3.772	4.841	70- 80	7.240	92.93	98,98
90	0.0724	0.0166	0.0111	0.0166	0.0440	0.1943	0.1985	0.5756	80- 90	1.233	94.16	99.3,99.3
100	0.0387	0.0442	0.0111	0.0387	0.0387	0.0221	0.0332	0.2765	90-100	0.0873	94.25	99.4,99.4
110	0.0387	0.0719	0.0331	0.0719	0.0663	0.0221	0.0608	0.1714	100-110	0.0670	94.32	99.5,99.5
120	0.0773	0.0940	0.0608	0.0940	0.0830	0.0497	0.0940	0.0663	110-120	0.0664	94.38	99.6,99.6
130	0.0938	0.1272	0.0939	0.1216	0.1106	0.0719	0.1161	0.0718	120-130	0.0788	94.46	99.6,99.6
140	0.1492	0.1548	0.1547	0.1492	0.1382	0.1216	0.1493	0.1382	130-140	0.0945	94.56	99.7,99.7
150	0.1714	0.1603	0.1658	0.1658	0.1603	0.1603	0.1714	0.1603	140-150	0.0980	94.65	99.8,99.8
160	0.1714	0.1714	0.1769	0.1769	0.1714	0.1658	0.1714	0.1714	150-160	0.0787	94.73	99.9,99.9
170	0.1714	0.1714	0.1769	0.1769	0.1714	0.1658	0.1714	0.1714	160-170	0.0488	94.78	100,100
180	0.1714	0.1714	0.1769	0.1769	0.1714	0.1714	0.1714	0.1714	170-180	0.0164	94.80	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
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γ Range: 0 - 180DEG
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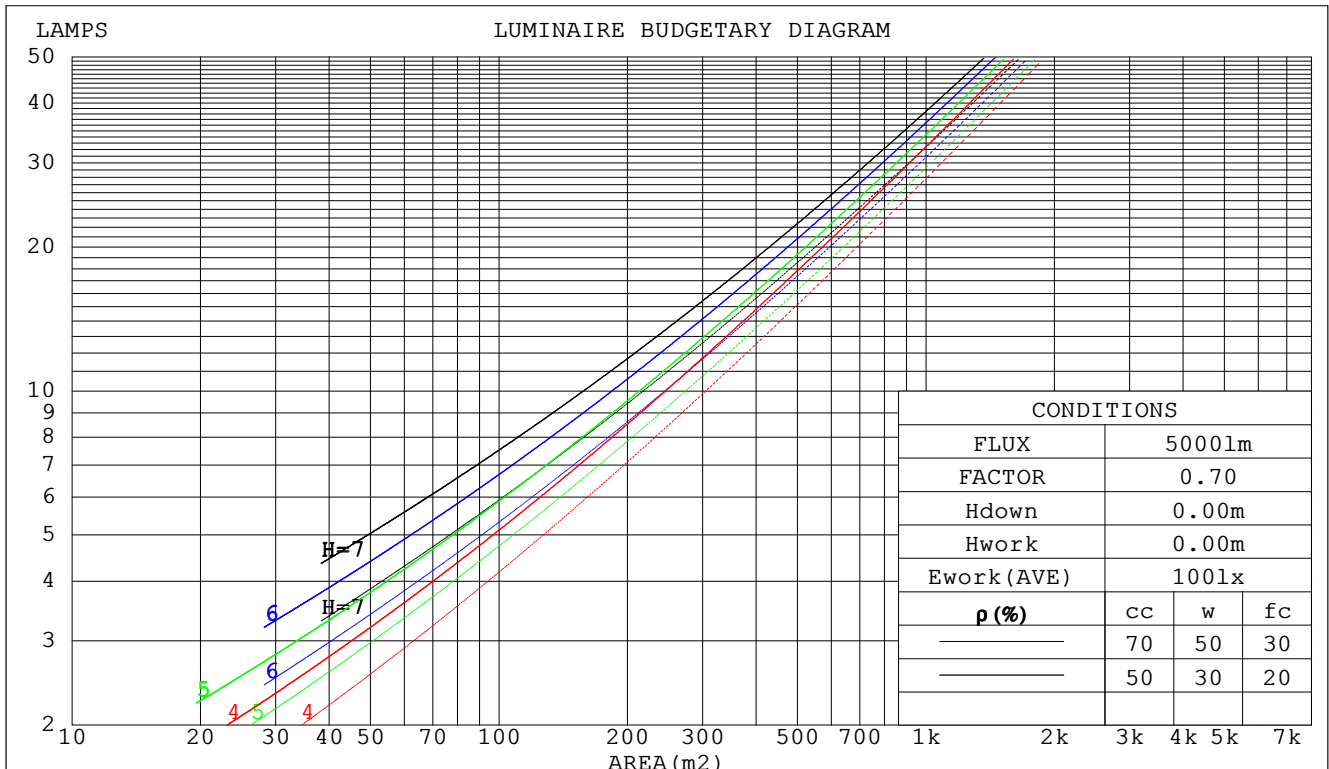
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:12.00V I:0.4535A P:5.442W PF:1.000 Lamp Flux:94.7984x1 lm		
NAME: LED STRIP	TYPE:5050RGB-R	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	1.04	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.81	.76	.84	.79	.74	.81	.76	.72	.78	.74	.71	.68
3.0	.78	.70	.63	.77	.69	.63	.74	.67	.61	.71	.65	.60	.68	.63	.59	.57
4.0	.69	.60	.53	.68	.59	.53	.65	.58	.52	.63	.56	.51	.60	.55	.50	.48
5.0	.62	.52	.46	.60	.52	.45	.58	.50	.45	.56	.49	.44	.54	.48	.44	.41
6.0	.55	.46	.39	.54	.46	.39	.52	.45	.39	.51	.44	.38	.49	.43	.38	.36
7.0	.50	.41	.35	.49	.41	.35	.47	.40	.34	.46	.39	.34	.44	.38	.34	.32
8.0	.45	.37	.31	.45	.36	.31	.43	.36	.30	.42	.35	.30	.41	.35	.30	.28
9.0	.42	.33	.28	.41	.33	.28	.40	.32	.27	.39	.32	.27	.38	.31	.27	.25
10.0	.38	.30	.25	.38	.30	.25	.37	.30	.25	.36	.29	.25	.35	.29	.24	.23



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 C Interval: 45.0DEG
 Test Speed: HIGH
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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:

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WEC AND CCEC

Test:U:12.00V I:0.4535A P:5.442W PF:1.000 Lamp Flux:94.7984x1 lm		
NAME: LED STRIP	TYPE:5050RGB-R	WEIGHT:
DIM.: 1000*10	SPEC.:1000*10	SERIAL No.:
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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	.312	.178	.056	.305	.174	.055	.291	.167	.053	.279	.161	.052	.267	.155	.050		
2.0	.297	.163	.050	.290	.160	.049	.278	.155	.048	.267	.150	.047	.257	.145	.046		
3.0	.275	.146	.044	.269	.144	.043	.259	.140	.043	.249	.136	.042	.240	.133	.041		
4.0	.254	.132	.039	.249	.130	.038	.239	.127	.038	.230	.124	.037	.222	.121	.037		
5.0	.234	.119	.035	.230	.118	.034	.221	.115	.034	.214	.113	.034	.206	.110	.033		
6.0	.217	.109	.031	.213	.108	.031	.206	.105	.031	.199	.103	.030	.192	.101	.030		
7.0	.202	.100	.028	.198	.099	.028	.192	.097	.028	.185	.095	.028	.179	.093	.027		
8.0	.188	.092	.026	.185	.091	.026	.179	.089	.026	.173	.088	.025	.168	.086	.025		
9.0	.176	.085	.024	.173	.085	.024	.168	.083	.024	.163	.082	.023	.158	.080	.023		
10.0	.166	.079	.022	.163	.079	.022	.158	.077	.022	.153	.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	.196	.196	.196	.167	.167	.167	.114	.114	.114	.066	.066	.066	.021	.021	.021	
1.0	.186	.161	.139	.159	.138	.120	.109	.095	.083	.063	.055	.048	.020	.018	.016	
2.0	.178	.137	.103	.153	.118	.089	.105	.082	.062	.060	.047	.036	.019	.015	.012	
3.0	.171	.120	.079	.146	.103	.068	.100	.072	.048	.058	.042	.028	.019	.014	.009	
4.0	.163	.106	.063	.140	.092	.055	.096	.064	.038	.056	.038	.023	.018	.012	.007	
5.0	.156	.096	.052	.134	.083	.045	.092	.058	.032	.053	.034	.019	.017	.011	.006	
6.0	.149	.088	.044	.128	.076	.038	.088	.053	.027	.051	.031	.016	.017	.010	.005	
7.0	.142	.081	.038	.122	.070	.033	.084	.049	.024	.049	.029	.014	.016	.009	.005	
8.0	.135	.075	.034	.117	.065	.029	.081	.046	.021	.047	.027	.012	.015	.009	.004	
9.0	.129	.070	.030	.111	.061	.026	.077	.043	.019	.045	.025	.011	.015	.008	.004	
10.0	.123	.066	.028	.106	.057	.024	.074	.040	.017	.043	.024	.010	.014	.008	.003	

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 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:0.4535A P:5.442W PF:1.000 Lamp Flux:94.7984x1 lm										
NAME: LED STRIP					TYPE:5050RGB-R			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	16.8	18.3	17.1	18.6	18.8	16.5	18.0	16.8	18.2	18.5
3H	18.5	19.9	18.8	20.2	20.4	17.8	19.2	18.1	19.4	19.7
4H	19.1	20.5	19.5	20.8	21.0	18.1	19.4	18.4	19.7	20.0
6H	19.4	20.7	19.8	21.0	21.3	18.1	19.4	18.4	19.7	20.0
8H	19.4	20.7	19.8	21.0	21.3	18.0	19.3	18.4	19.6	19.9
12H	19.4	20.6	19.8	20.9	21.2	18.0	19.2	18.4	19.5	19.8
4H 2H	17.4	18.7	17.7	19.0	19.3	17.1	18.5	17.5	18.8	19.0
3H	19.2	20.4	19.6	20.7	21.0	18.6	19.8	19.0	20.1	20.4
4H	20.0	21.0	20.3	21.4	21.7	19.0	20.1	19.4	20.4	20.8
6H	20.3	21.3	20.7	21.7	22.0	19.1	20.0	19.5	20.4	20.8
8H	20.4	21.2	20.8	21.6	22.0	19.0	19.9	19.5	20.3	20.7
12H	20.3	21.2	20.8	21.6	22.0	19.0	19.8	19.4	20.2	20.6
8H 4H	20.1	21.0	20.5	21.4	21.8	19.2	20.1	19.7	20.5	20.9
6H	20.5	21.3	21.0	21.7	22.1	19.3	20.1	19.8	20.5	20.9
8H	20.6	21.2	21.0	21.7	22.1	19.3	20.0	19.8	20.4	20.9
12H	20.6	21.1	21.1	21.6	22.1	19.3	19.9	19.8	20.3	20.8
12H 4H	20.1	20.9	20.5	21.3	21.7	19.2	20.0	19.7	20.4	20.9
6H	20.5	21.2	21.0	21.6	22.1	19.3	20.0	19.8	20.4	20.9
8H	20.6	21.1	21.0	21.6	22.1	19.3	19.9	19.8	20.3	20.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.3				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.5				
2.0H	+ 0.2 / - 0.3					+ 0.3 / - 0.5				

CIE Pub.117 Corrected 94.80 lm Total Lamp Luminous Flux. (8log(F/F0) = -8.2)

C Range: 0 - 360DEG
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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:0.4535A P:5.442W PF:1.000 Lamp Flux:94.7984x1 lm		
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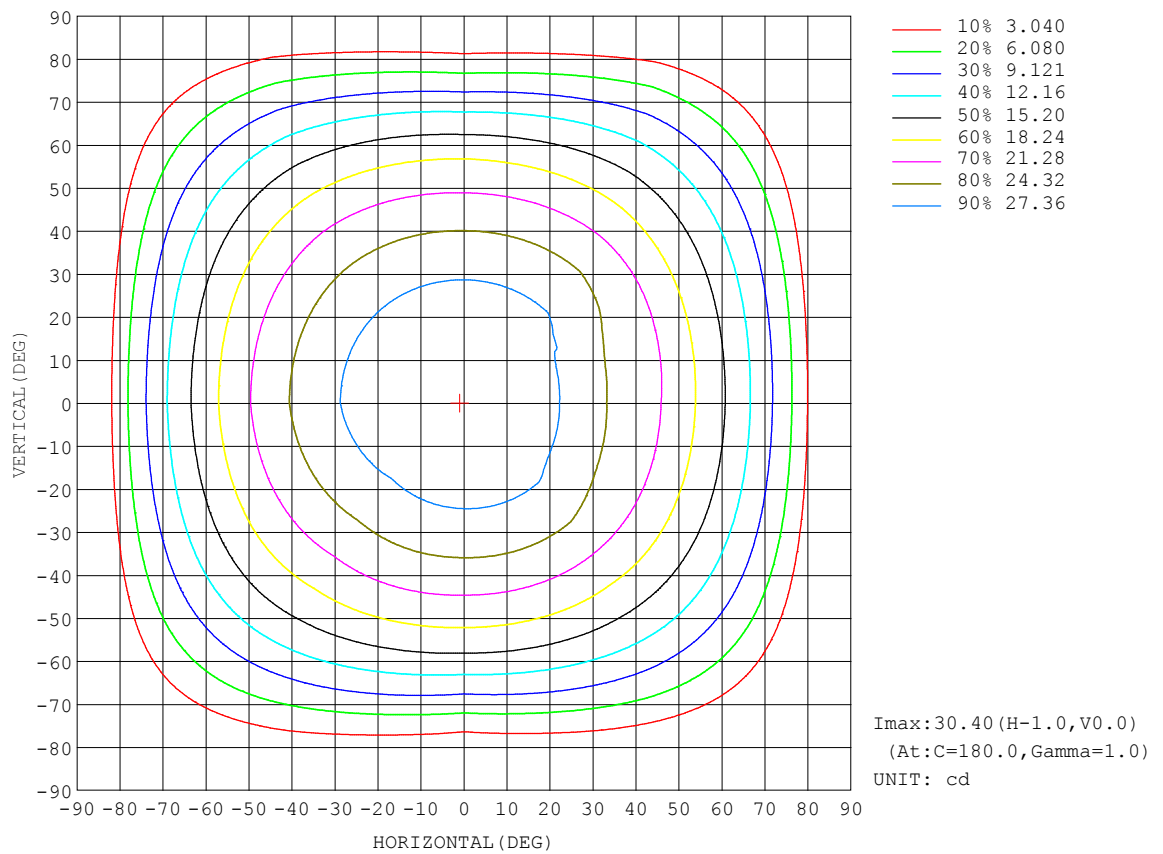
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	44	37	55	44	37	54	43	37	30
0.80	66	54	46	65	54	46	63	53	46	39
1.00	74	63	55	73	62	55	71	64	55	47
1.25	82	71	64	80	70	63	77	69	62	55
1.50	87	77	69	85	76	69	82	74	68	60
2.00	94	85	79	92	84	78	88	82	76	68
2.50	98	90	84	96	89	83	92	86	81	73
3.00	102	95	89	99	93	88	95	90	86	77
4.00	106	100	95	103	98	94	99	95	91	82
5.00	108	103	99	106	101	98	101	98	95	85
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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ISOCANDELA DIAGRAM

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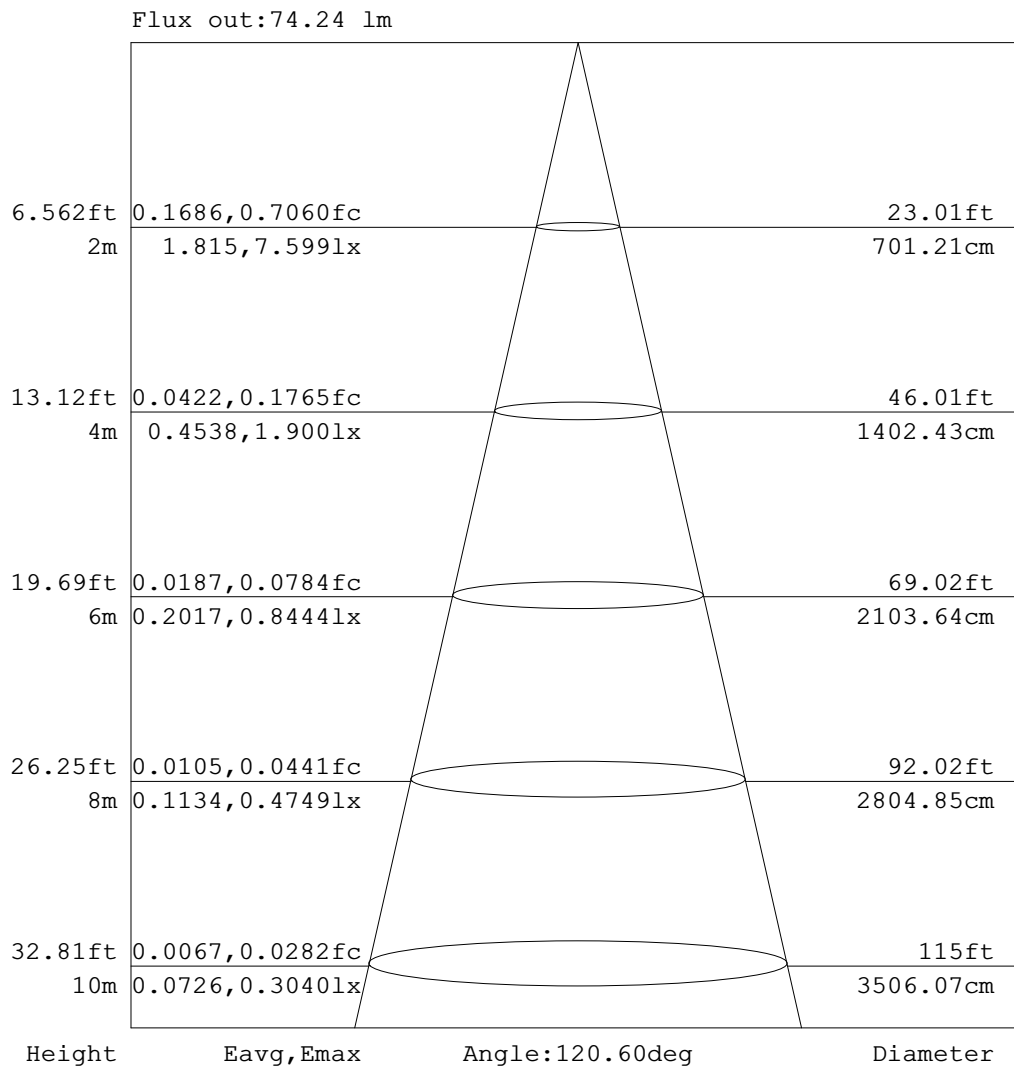


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AAI Figure

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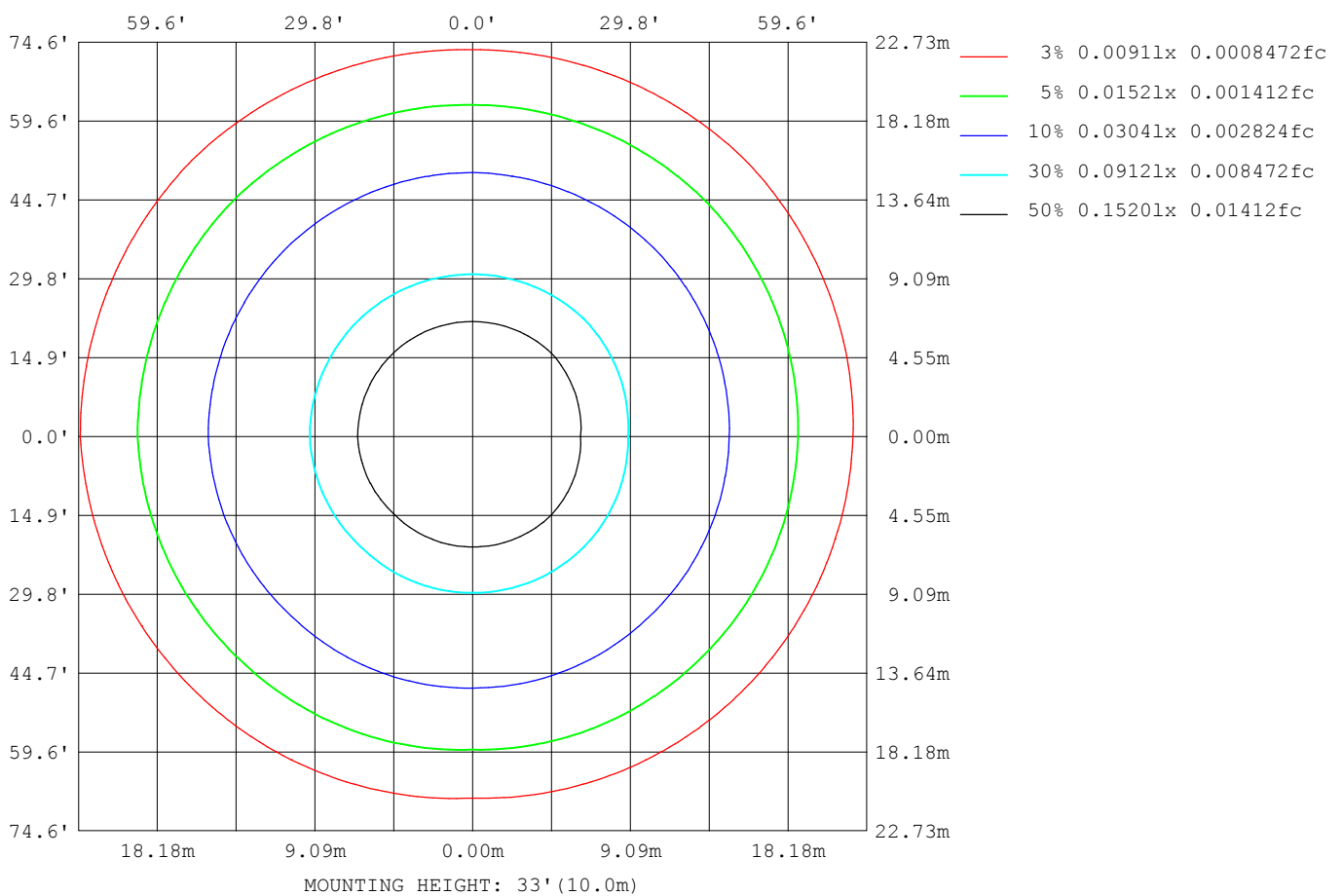
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

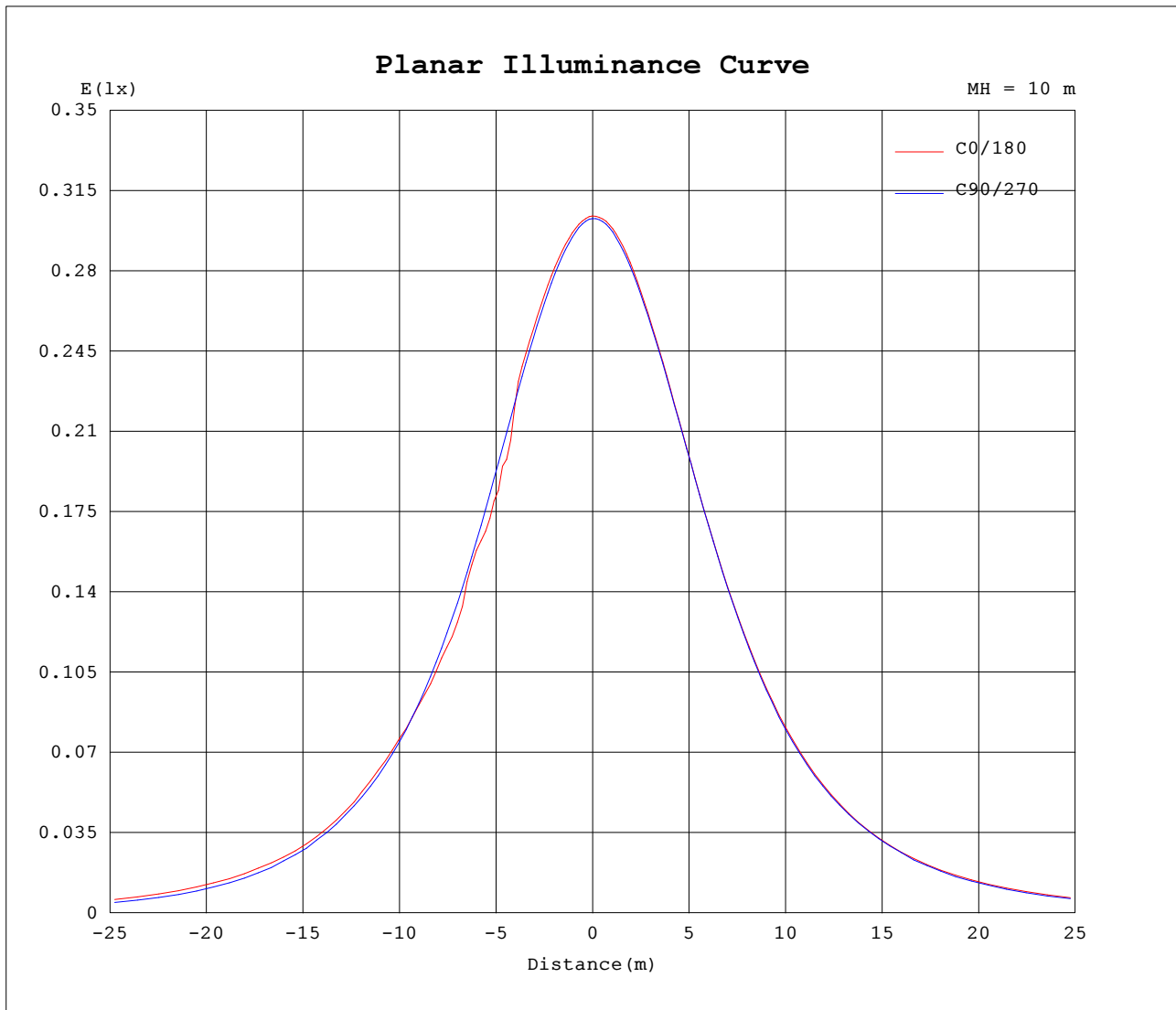
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Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:12.00V I:0.4535A P:5.442W PF:1.000 Lamp Flux:94.7984x1 lm		
NAME: LED STRIP	TYPE:5050RGB-R	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	30.4	30.3	30.3	30.2	30.4	30.3	30.3	30.2										
5	30.2	30.1	30.0	30.0	30.4	30.4	30.2	30.2										
10	29.9	29.7	29.6	29.6	30.1	30.1	29.9	29.9										
15	29.4	29.1	29.0	29.0	29.6	29.6	29.4	29.5										
20	28.7	28.4	28.2	28.2	29.0	28.9	28.9	28.8										
25	26.2	27.4	27.3	27.2	28.1	28.1	28.1	28.0										
30	25.0	26.2	26.0	26.0	27.1	27.1	27.1	27.0										
35	23.1	24.8	24.6	24.6	25.9	25.9	25.8	25.8										
40	22.2	23.1	23.0	23.1	24.5	24.5	24.3	24.3										
45	21.5	21.2	21.1	21.4	22.9	22.9	22.7	22.6										
50	20.0	19.2	19.2	19.5	21.1	21.2	20.9	20.7										
55	17.7	17.0	16.9	17.5	19.1	19.2	19.0	18.6										
60	15.6	14.5	14.0	15.1	16.9	17.0	16.6	16.3										
65	13.0	11.9	10.8	12.5	14.4	14.6	13.7	13.9										
70	10.2	8.95	7.50	9.55	11.6	11.8	10.7	11.2										
75	6.98	5.66	3.93	6.28	8.40	8.65	7.22	8.17										
80	2.94	1.85	0.72	2.86	4.57	5.29	3.77	4.84										
85	0.59	0.21	0.09	0.33	0.98	1.59	0.77	1.56										
90	0.07	0.02	0.01	0.02	0.04	0.19	0.20	0.58										
95	0.04	0.03	0.01	0.03	0.03	0.03	0.02	0.38										
100	0.04	0.04	0.01	0.04	0.04	0.02	0.03	0.28										
105	0.04	0.06	0.01	0.06	0.06	0.02	0.04	0.24										
110	0.04	0.07	0.03	0.07	0.07	0.02	0.06	0.17										
115	0.04	0.08	0.04	0.08	0.08	0.04	0.07	0.07										
120	0.08	0.09	0.06	0.09	0.08	0.05	0.09	0.07										
125	0.07	0.12	0.07	0.11	0.11	0.07	0.11	0.07										
130	0.09	0.13	0.09	0.12	0.11	0.07	0.12	0.07										
135	0.13	0.14	0.12	0.13	0.13	0.10	0.13	0.09										
140	0.15	0.15	0.15	0.15	0.14	0.12	0.15	0.14										
145	0.16	0.16	0.16	0.16	0.15	0.14	0.16	0.15										
150	0.17	0.16	0.17	0.17	0.16	0.16	0.17	0.16										
155	0.17	0.17	0.17	0.17	0.17	0.16	0.18	0.17										
160	0.17	0.17	0.18	0.18	0.17	0.17	0.17	0.17										
165	0.17	0.17	0.18	0.18	0.17	0.17	0.17	0.17										
170	0.17	0.17	0.18	0.18	0.17	0.17	0.17	0.17										
175	0.17	0.17	0.18	0.18	0.17	0.17	0.17	0.17										
180	0.17	0.17	0.18	0.18	0.17	0.17	0.17	0.17										

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: