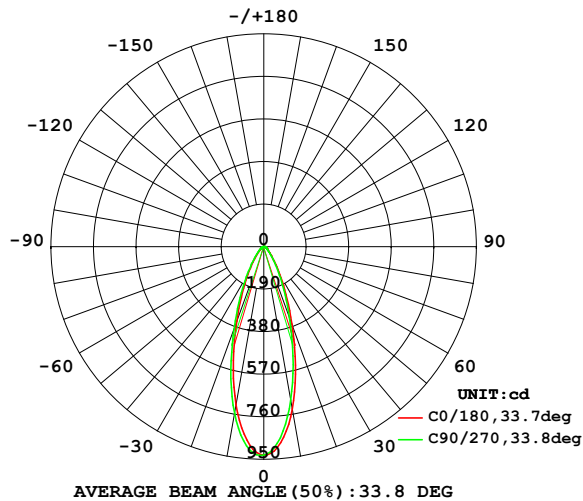


LUMINAIRE PHOTOMETRIC TEST REPORT

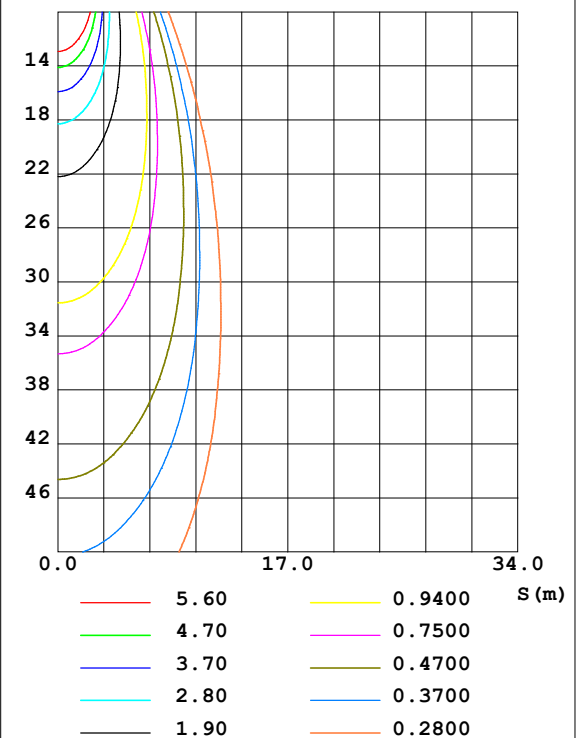
NAME: MR16 5W 2700K 30Degree	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Brilliance.led.llc	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL		I _{max} (cd)	934.6	S/MH (C0/180)	0.56
NOMINAL POWER(W)	0	LOR(%)	97.5	S/MH (C90/270)	0.53
RATED VOLTAGE(V)	0	TOTAL FLUX(lm)	465.21	η UP,DN(C0-180)	0.0,47.0
NOMINAL FLUX(lm)	477.322	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.4
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	0.0	η down (%)	97.5	CIBSE SHR MAX	0.60

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Zhu
Test Date: 2020-06-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.280
Humidity: 65.0%
Test Distance: 5.833m [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	736.0	728.1	695.6	684.0	716.0	725.7	755.0	777.7	0- 10	78.68	78.68	16.9,16.5
20	368.5	372.1	338.2	339.0	353.6	374.5	388.0	420.4	10- 20	148.6	227.3	48.9,47.6
30	145.0	158.8	132.7	142.7	140.3	160.9	157.4	182.2	20- 30	111.7	339.0	72.9,71
40	55.75	62.97	50.57	56.37	53.32	63.81	60.77	71.93	30- 40	60.87	399.8	85.9,83.8
50	24.99	26.13	22.19	23.07	23.08	25.79	26.40	29.02	40- 50	30.11	430.0	92.4,90.1
60	14.44	13.96	12.69	13.27	12.86	13.58	14.35	14.52	50- 60	16.28	446.2	95.9,93.5
70	10.27	9.182	8.336	8.822	8.229	8.971	10.14	9.584	60- 70	11.38	457.6	98.4,95.9
80	3.378	3.244	2.775	2.195	2.967	2.979	3.443	4.054	70- 80	6.524	464.1	99.8,97.2
90	0.0753	0.0324	0.0347	0.0347	0.0237	0.0216	0.0217	0.0260	80- 90	1.078	465.2	100,97.5
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

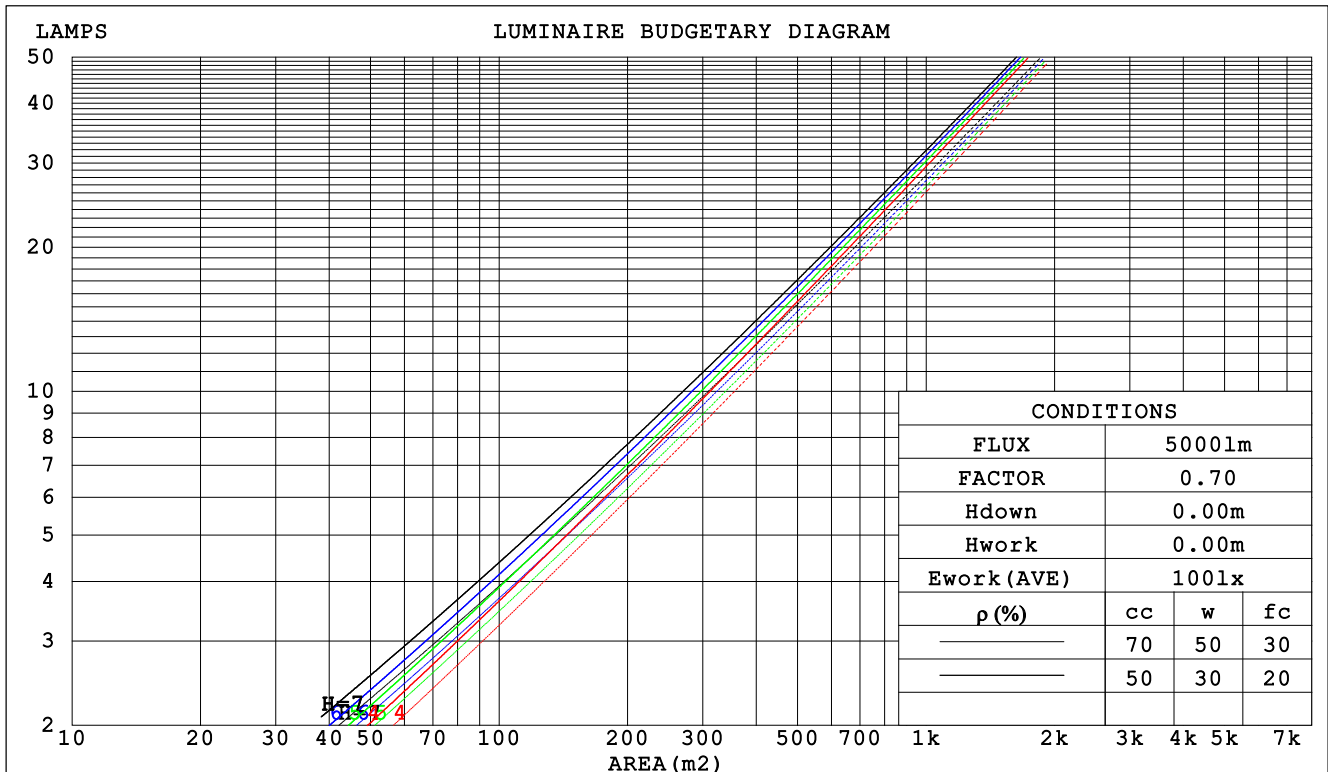
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Zhu
 Test Date:2020-06-11

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.280
 Humidity:65.0%
 Test Distance:5.833m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: MR16 5W 2700K 30Degree	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Brilliance.led.llc	SUR.:	PROTECTION ANGLE:

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	1.16	1.16	1.16	1.13	1.13	1.13	1.08	1.08	1.08	1.04	1.04	1.04	.99	.99	.99	.97
1.0	1.08	1.05	1.03	1.05	1.03	1.01	1.01	.90	.98	.98	.96	.95	.94	.93	.92	.91
2.0	.90	.96	.92	.98	.94	.91	.95	.92	.89	.92	.90	.87	.89	.87	.86	.84
3.0	.93	.88	.84	.92	.87	.84	.89	.85	.82	.87	.84	.81	.85	.82	.80	.78
4.0	.87	.82	.78	.86	.81	.77	.84	.80	.76	.82	.78	.75	.80	.77	.75	.73
5.0	.82	.76	.72	.81	.76	.72	.79	.75	.71	.78	.74	.71	.76	.73	.70	.69
6.0	.78	.72	.68	.77	.71	.67	.75	.71	.67	.74	.70	.67	.73	.69	.66	.65
7.0	.73	.68	.64	.73	.67	.64	.72	.67	.63	.70	.66	.63	.69	.65	.63	.61
8.0	.70	.64	.60	.69	.64	.60	.68	.63	.60	.67	.63	.60	.66	.62	.59	.58
9.0	.66	.61	.57	.66	.61	.57	.65	.60	.57	.64	.60	.57	.63	.59	.56	.55
10.0	.63	.58	.54	.63	.58	.54	.62	.57	.54	.61	.57	.54	.61	.57	.54	.53



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Zhu
 Test Date: 2020-06-11

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.280
 Humidity: 65.0%
 Test Distance: 5.833m [K=1.0000]
 Remarks:

WEC AND CCEC

NAME: MR16 5W 2700K 30Degree	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Brilliance.led.llc	SUR.:	PROTECTION ANGLE:

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						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.182	.103	.033	.175	.100	.032	.163	.093	.030	.151	.087	.028	.141	.082	.026	
2.0	.172	.094	.029	.167	.092	.028	.156	.087	.027	.147	.082	.026	.138	.078	.025	
3.0	.162	.086	.026	.157	.084	.025	.148	.080	.024	.140	.077	.024	.133	.073	.023	
4.0	.152	.079	.023	.148	.078	.023	.141	.075	.022	.134	.072	.022	.127	.069	.021	
5.0	.144	.073	.021	.140	.072	.021	.133	.070	.020	.127	.067	.020	.122	.065	.020	
6.0	.136	.068	.019	.133	.067	.019	.127	.065	.019	.121	.063	.019	.116	.061	.018	
7.0	.129	.064	.018	.126	.063	.018	.121	.061	.018	.116	.060	.017	.112	.058	.017	
8.0	.122	.060	.017	.120	.059	.017	.115	.058	.016	.111	.056	.016	.107	.055	.016	
9.0	.117	.056	.016	.114	.056	.016	.110	.055	.015	.106	.053	.015	.103	.052	.015	
10.0	.111	.053	.015	.109	.053	.015	.106	.052	.015	.102	.051	.014	.099	.050	.014	

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.186	.186	.186	.159	.159	.159	.108	.108	.108	.062	.062	.062	.020	.020	.020	
1.0	.167	.153	.140	.143	.132	.121	.098	.090	.084	.056	.052	.049	.018	.017	.016	
2.0	.153	.129	.109	.131	.111	.094	.090	.077	.066	.052	.045	.039	.017	.014	.013	
3.0	.141	.111	.087	.121	.096	.075	.083	.066	.053	.048	.039	.031	.015	.013	.010	
4.0	.131	.096	.070	.112	.083	.061	.077	.058	.043	.045	.034	.025	.014	.011	.008	
5.0	.122	.085	.058	.105	.074	.050	.072	.051	.036	.042	.030	.021	.013	.010	.007	
6.0	.114	.076	.049	.098	.066	.042	.068	.046	.030	.039	.027	.018	.013	.009	.006	
7.0	.107	.069	.041	.092	.059	.036	.064	.042	.025	.037	.025	.015	.012	.008	.005	
8.0	.102	.062	.035	.087	.054	.031	.060	.038	.022	.035	.022	.013	.011	.007	.004	
9.0	.096	.057	.031	.083	.050	.027	.057	.035	.019	.033	.021	.011	.011	.007	.004	
10.0	.092	.053	.027	.079	.046	.024	.055	.032	.017	.032	.019	.010	.010	.006	.003	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zhu
Test Date:2020-06-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.280
Humidity:65.0%
Test Distance:5.833m [K=1.0000]
Remarks:

Uncorrected UGR Table

NAME: MR16 5W 2700K 30Degree					TYPE:					WEIGHT:				
SPEC.:					DIM.:					SERIAL No.:				
MFR.: Brilliance.led.llc					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				
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					5.7	6.6	5.9	6.8	6.9	5.2	6.2	5.4	6.3	6.5
3H					6.6	7.5	6.9	7.7	7.9	6.0	6.9	6.3	7.1	7.3
4H					7.1	7.9	7.3	8.1	8.3	6.4	7.2	6.6	7.4	7.6
6H					7.3	8.1	7.6	8.3	8.6	6.5	7.3	6.8	7.6	7.8
8H					7.3	8.1	7.7	8.3	8.6	6.5	7.3	6.9	7.5	7.8
12H					7.3	8.1	7.7	8.3	8.6	6.5	7.2	6.8	7.5	7.8
4H 2H					5.9	6.7	6.2	6.9	7.2	5.5	6.3	5.8	6.6	6.8
3H					7.1	7.8	7.4	8.1	8.3	6.6	7.3	6.9	7.5	7.8
4H					7.6	8.3	8.0	8.6	8.9	7.0	7.7	7.3	8.0	8.3
6H					8.0	8.6	8.4	8.9	9.2	7.3	7.9	7.7	8.2	8.5
8H					8.0	8.6	8.4	8.9	9.3	7.3	7.8	7.7	8.2	8.5
12H					8.1	8.6	8.5	8.9	9.3	7.2	7.7	7.7	8.1	8.5
8H 4H					7.8	8.3	8.2	8.7	9.0	7.2	7.7	7.6	8.1	8.4
6H					8.2	8.6	8.6	9.0	9.4	7.5	8.0	8.0	8.4	8.8
8H					8.3	8.7	8.7	9.1	9.5	7.6	8.0	8.0	8.4	8.8
12H					8.3	8.7	8.8	9.1	9.6	7.5	7.9	8.0	8.3	8.8
12H 4H					7.7	8.2	8.2	8.6	9.0	7.2	7.7	7.6	8.0	8.4
6H					8.2	8.6	8.6	9.0	9.4	7.5	7.9	8.0	8.4	8.8
8H					8.3	8.6	8.8	9.1	9.5	7.6	7.9	8.1	8.4	8.8
Variations with the observer position at spacings:														
S = 1.0H					+ 0.6 / - 0.8					+ 0.7 / - 0.9				
1.5H					+ 1.0 / - 0.7					+ 1.1 / - 0.9				
2.0H					+ 1.1 / - 0.6					+ 1.1 / - 0.8				

CIE Pub.117 Corrected 477.3 lm Total Lamp Luminous Flux.(8log(F/F0) = -2.6)

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zhu
Test Date:2020-06-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.280
Humidity:65.0%
Test Distance:5.833m [K=1.0000]
Remarks:

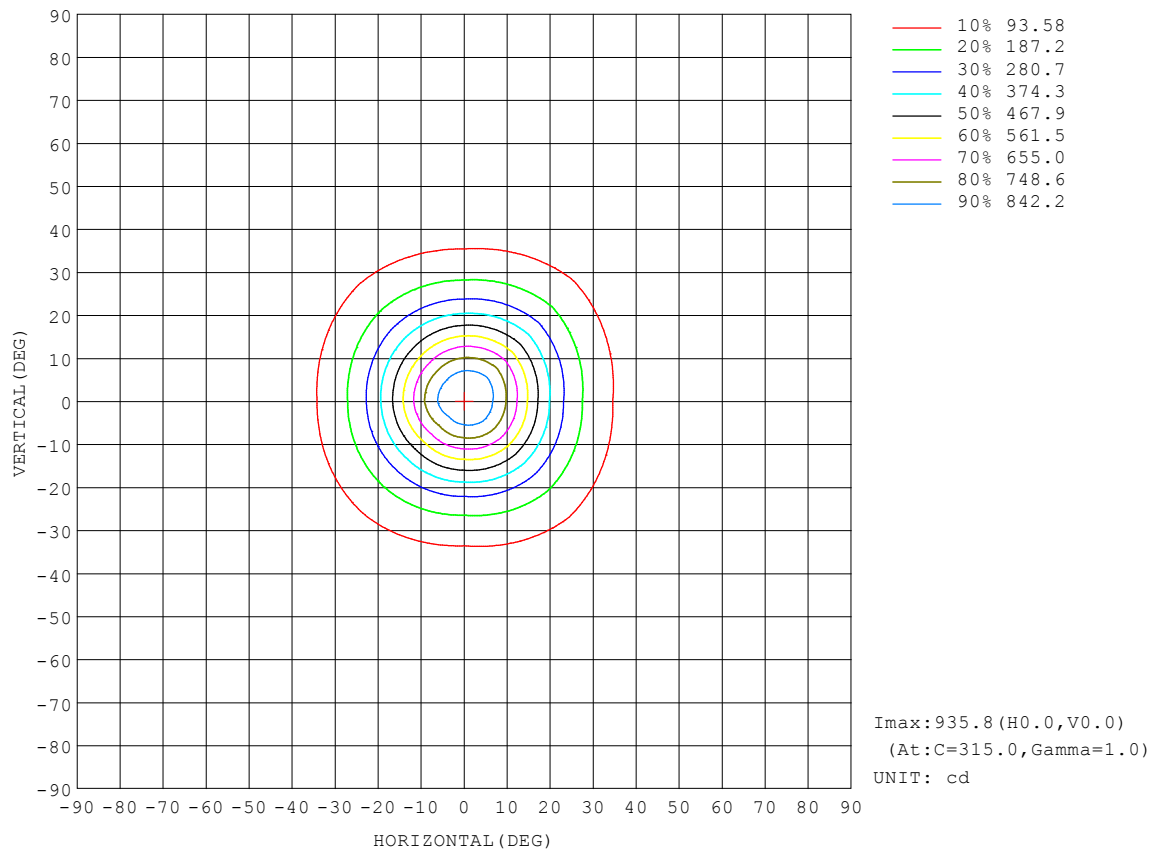
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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.280
Humidity:65.0%
Test Distance:5.833m [K=1.0000]
Remarks:

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ISOCANDELA DIAGRAM

NAME: MR16 5W 2700K 30Degree	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Brilliance.led.llc	SUR.:	PROTECTION ANGLE:

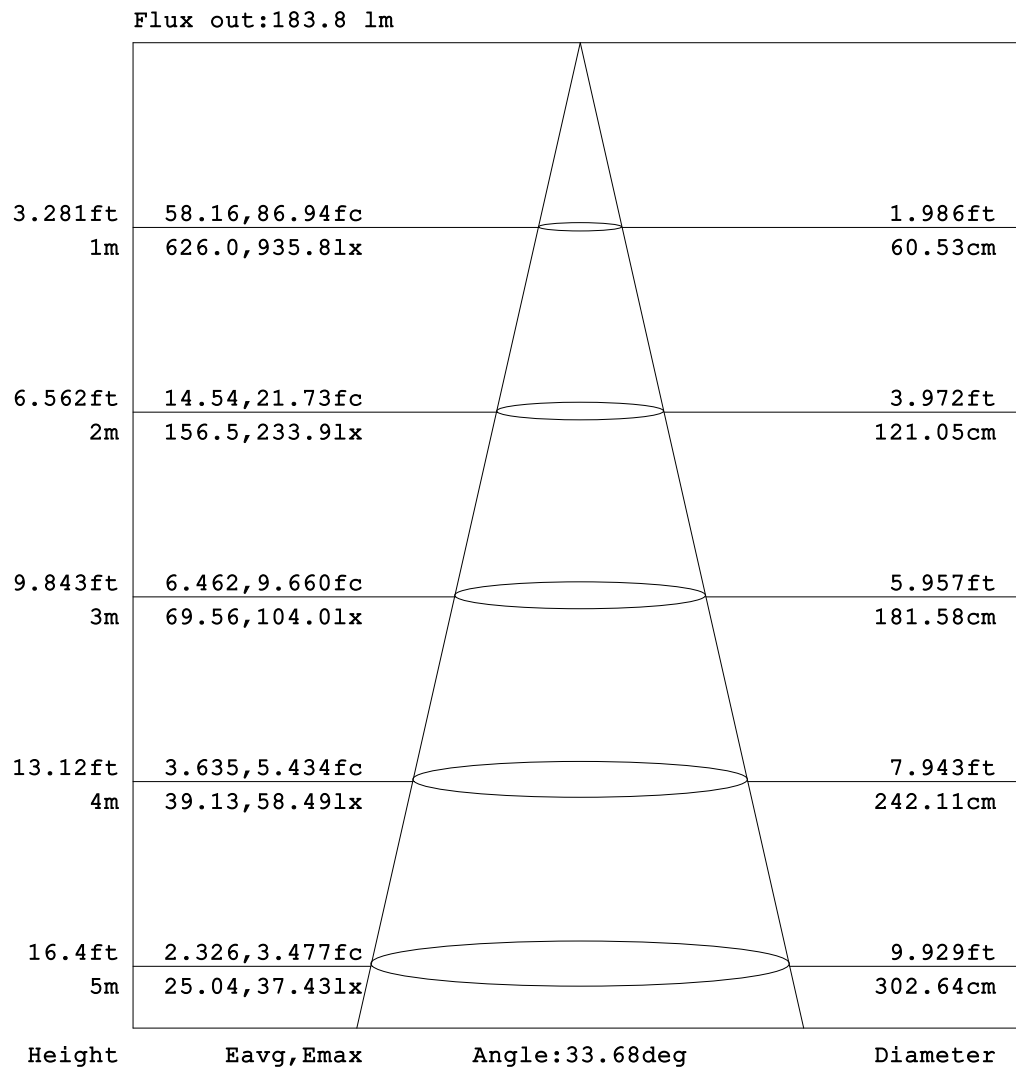


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zhu
Test Date:2020-06-11

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.280
Humidity:65.0%
Test Distance:5.833m [K=1.0000]
Remarks:

AAI Figure

NAME: MR16 5W 2700K 30Degree	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Brilliance.led.llc	SUR.:	PROTECTION ANGLE:



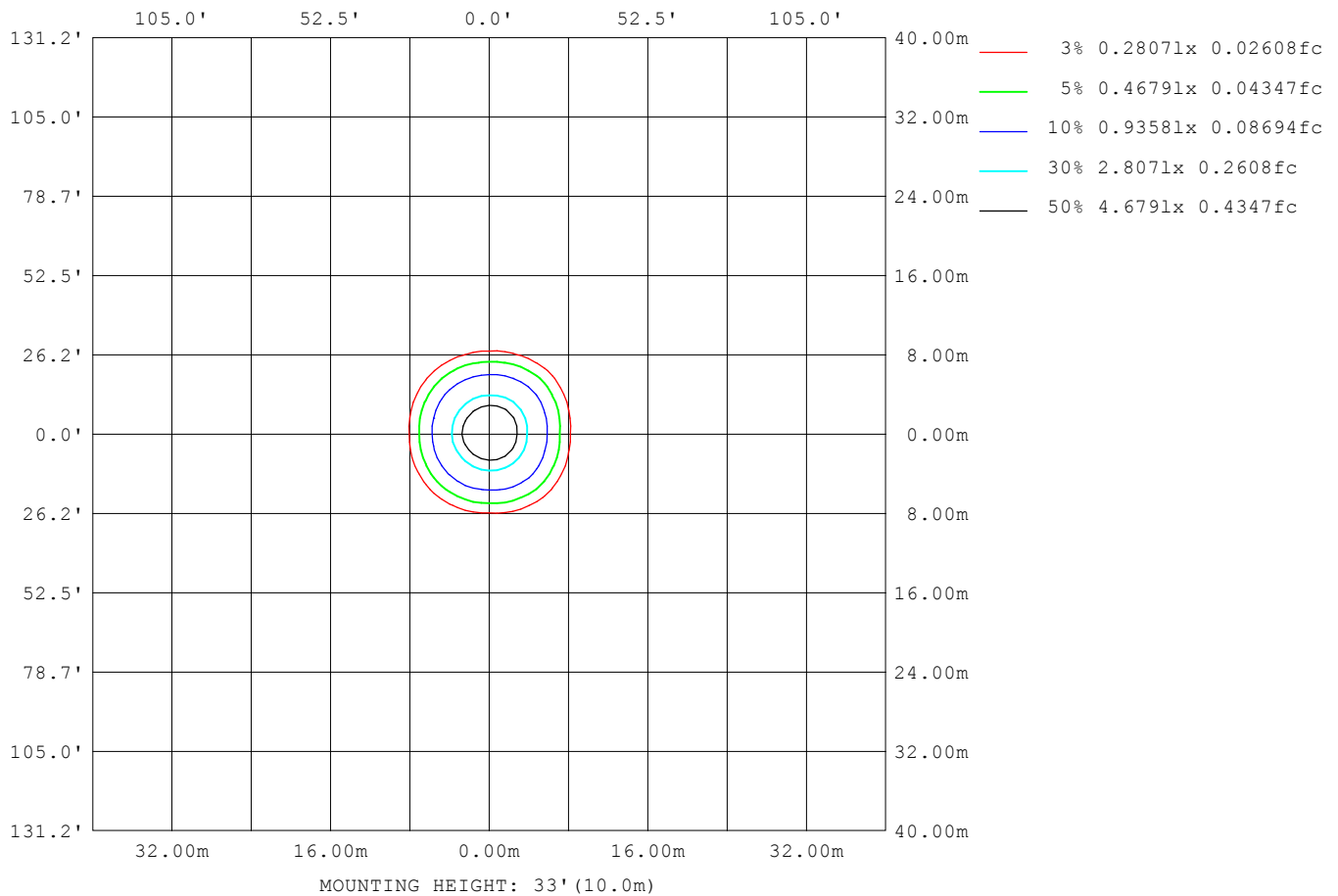
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Zhu
Test Date: 2020-06-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.280
Humidity: 65.0%
Test Distance: 5.833m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

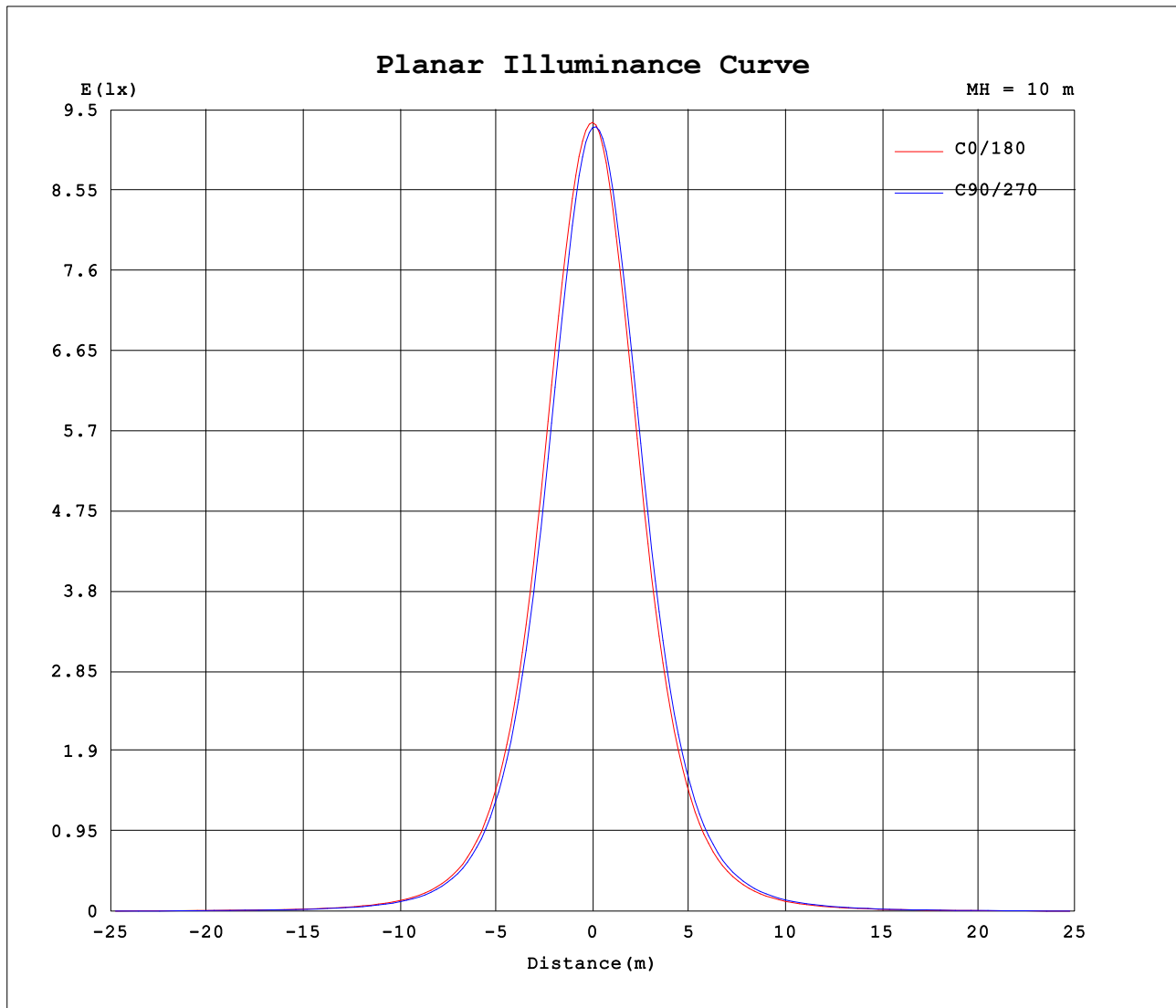
NAME: MR16 5W 2700K 30Degree	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Brilliance.led.llc	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Zhu
Test Date: 2020-06-11

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.280
Humidity: 65.0%
Test Distance: 5.833m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Zhu
Test Date: 2020-06-11

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.280
Humidity: 65.0%
Test Distance: 5.833m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.280
Humidity:65.0%
Test Distance:5.833m [K=1.0000]
Remarks:

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