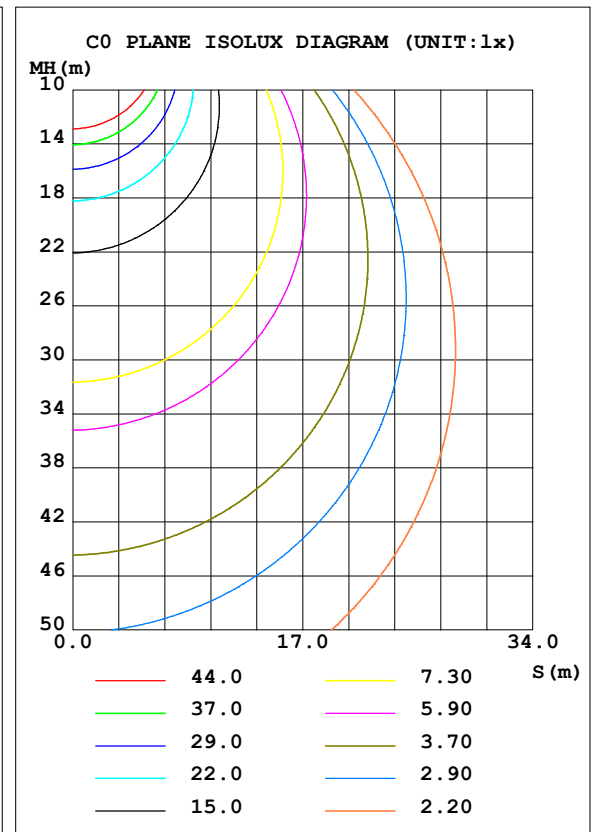
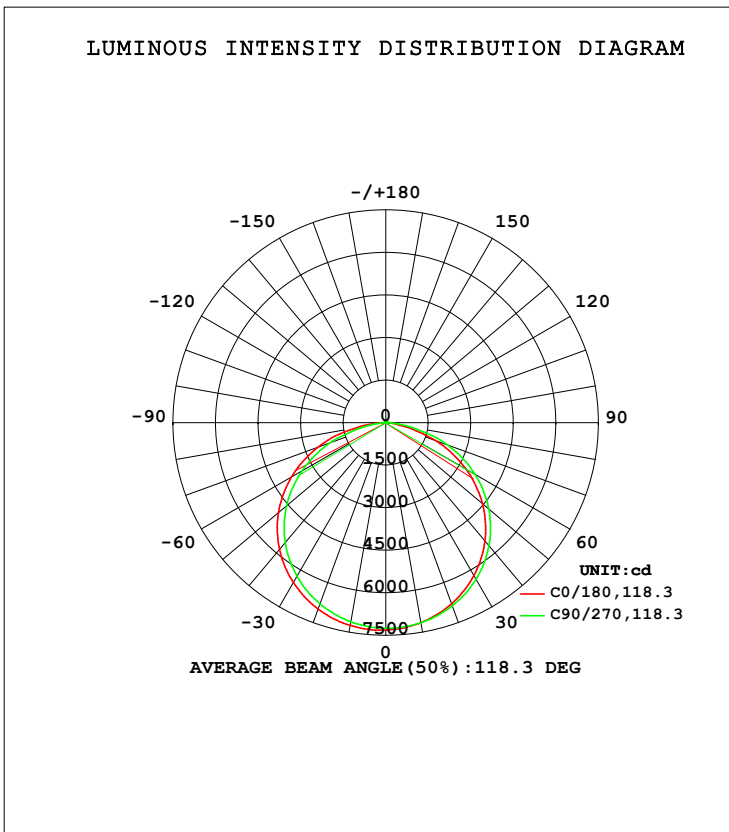


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.0V I:0.6830A P:146.3W PF:0.9720 Freq:50.00Hz Lamp Flux:22040.1x1 lm		
NAME: LED	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

DATA OF LAMP		PHOTOMETRIC DATA Eff: 150.65 lm/W			
MODEL	HBL-150-120D	I _{max} (cd)	7319	S/MH (C0/180)	1.32
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	1.28
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	22040	η UP, DN (C0-180)	0.6, 49.5
NOMINAL FLUX (lm)	22040.1	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.4, 49.5
LAMPS INSIDE	1	η up (%)	1.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220	η down (%)	99.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 007
 Test Date: 2016-08-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 5.560m [K=1.0000]
 Remarks: 529-150W-120D

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	7159	7157	7163	7164	7258	7191	7127	7072	0- 10	688.6	688.6	3.12,3.12
20	6795	6827	6870	6899	6992	6895	6797	6717	10- 20	1986	2674	12.1,12.1
30	6222	6289	6369	6427	6518	6390	6262	6155	20- 30	3050	5725	26,26
40	5443	5544	5663	5751	5834	5678	5518	5389	30- 40	3749	9474	43,43
50	4451	4590	4747	4864	4942	4759	4569	4414	40- 50	3979	13453	61,61
60	3259	3431	3624	3772	3842	3632	3416	3240	50- 60	3680	17132	77.7,77.7
70	1900	2107	2330	2498	2551	2331	2094	1904	60- 70	2853	19985	90.7,90.7
80	468.6	660.0	859.5	1014	1053	858.7	637.6	474.6	70- 80	1541	21526	97.7,97.7
90	15.78	14.52	13.22	14.72	9.414	7.111	7.878	8.577	80- 90	294.0	21820	99,99
100	24.30	22.90	21.41	20.16	11.91	12.88	14.00	14.83	90-100	15.44	21836	99.1,99.1
110	33.54	32.01	30.69	28.86	18.80	19.91	21.27	21.95	100-110	23.00	21859	99.2,99.2
120	43.25	41.72	40.37	38.39	26.53	27.57	29.49	29.88	110-120	29.96	21889	99.3,99.3
130	51.17	50.33	48.88	47.29	34.49	35.16	36.98	37.14	120-130	34.75	21923	99.5,99.5
140	55.98	55.66	54.19	53.47	40.86	40.77	43.01	42.33	130-140	35.25	21959	99.6,99.6
150	59.39	59.37	57.82	57.76	46.51	47.69	50.12	49.14	140-150	31.99	21991	99.8,99.8
160	63.76	63.44	63.14	62.73	52.77	52.86	54.45	54.65	150-160	25.89	22017	99.9,99.9
170	66.44	66.12	65.80	64.90	62.43	62.07	62.70	63.31	160-170	17.26	22034	100,100
180	67.42	67.30	66.06	66.65	68.22	66.35	66.85	66.14	170-180	6.248	22040	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 11467 lm

%lum = 52.0%

%lamp = 52.0%

Conical surface Flux(120deg): 17132 lm

%lum = 77.7%

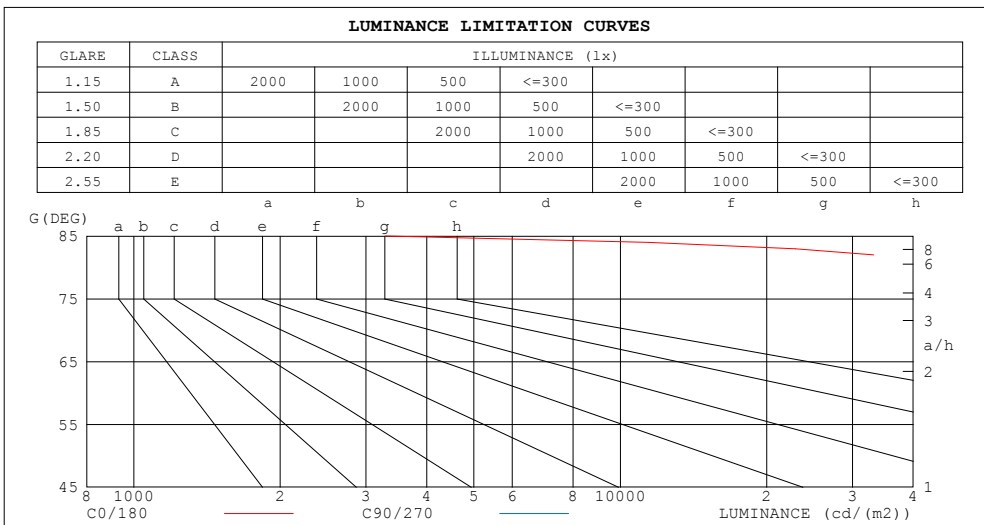
%lamp = 77.7%

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:007
 Test Date:2016-08-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:5.560m [K=1.0000]
 Remarks: 529-150W-120D

LUMINANCE LIMITATION CURVES

Test:U:220.0V I:0.6830A P:146.3W PF:0.9720 Freq:50.00Hz Lamp Flux:22040.1x1 lm		
NAME: LED	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:0.1275*0.1275*3.14	Shielding Angle:120



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	3291	62374
80	52917	97047
75	83622	118869
70	108918	133579
65	120610	138973
60	127794	142129
55	132628	143959
50	135789	144815
45	137890	145033

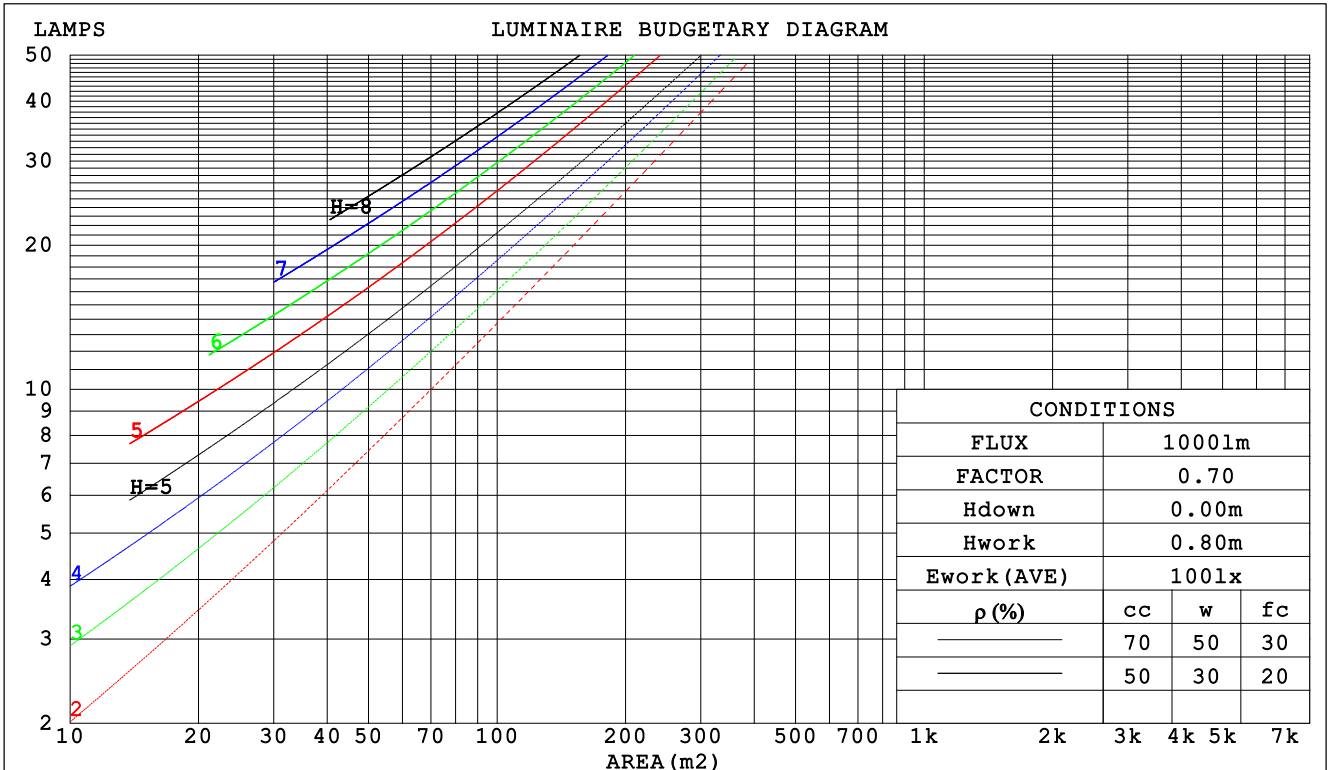
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:007
 Test Date:2016-08-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:5.560m [K=1.0000]
 Remarks: 529-150W-120D

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.0V I:0.6830A P:146.3W PF:0.9720 Freq:50.00Hz Lamp Flux:22040.1x1 lm		
NAME: LED	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

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	.96	1.01	.98	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.78	.88	.82	.77	.84	.79	.75	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.71	.64	.77	.70	.63	.74	.68	.62	.71	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.68	.60	.54	.66	.58	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.40	.51	.44	.39	.49	.43	.39	.37
7.0	.51	.42	.35	.50	.41	.35	.48	.40	.35	.46	.40	.35	.45	.39	.34	.32
8.0	.46	.37	.32	.45	.37	.31	.44	.36	.31	.43	.36	.31	.41	.35	.31	.29
9.0	.42	.34	.28	.42	.34	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.38	.31	.25	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:007
 Test Date:2016-08-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:5.560m [K=1.0000]
 Remarks: 529-150W-120D

WEC AND CCEC

Test:U:220.0V I:0.6830A P:146.3W PF:0.9720 Freq:50.00Hz Lamp Flux:22040.1x1 lm		
NAME: LED	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

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	.307	.175	.055	.300	.171	.054	.286	.164	.052	.273	.158	.051	.262	.152	.049	
2.0	.292	.160	.049	.285	.157	.048	.273	.152	.047	.262	.147	.046	.251	.142	.045	
3.0	.271	.144	.043	.265	.142	.043	.254	.138	.042	.244	.134	.041	.235	.130	.040	
4.0	.250	.130	.038	.245	.128	.038	.236	.125	.037	.227	.122	.037	.218	.119	.036	
5.0	.232	.118	.034	.227	.117	.034	.219	.114	.033	.211	.111	.033	.203	.108	.033	
6.0	.215	.108	.031	.211	.106	.031	.203	.104	.030	.196	.102	.030	.189	.100	.030	
7.0	.200	.099	.028	.196	.098	.028	.189	.096	.028	.183	.094	.027	.177	.092	.027	
8.0	.187	.091	.026	.183	.090	.026	.177	.089	.025	.171	.087	.025	.166	.085	.025	
9.0	.175	.085	.024	.172	.084	.024	.166	.082	.023	.161	.081	.023	.156	.079	.023	
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.152	.075	.021	.148	.074	.021	

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	.116	.116	.116	.066	.066	.066	.021	.021	.021	
1.0	.188	.164	.142	.161	.141	.122	.110	.097	.085	.063	.056	.049	.020	.018	.016	
2.0	.180	.140	.106	.154	.120	.091	.106	.083	.064	.061	.048	.037	.020	.016	.012	
3.0	.172	.122	.082	.148	.105	.071	.101	.073	.050	.059	.043	.029	.019	.014	.010	
4.0	.165	.109	.066	.142	.094	.057	.097	.066	.040	.056	.038	.024	.018	.012	.008	
5.0	.158	.098	.055	.135	.085	.048	.093	.060	.034	.054	.035	.020	.017	.011	.007	
6.0	.151	.090	.047	.129	.078	.041	.089	.055	.029	.052	.032	.017	.017	.011	.006	
7.0	.144	.083	.041	.124	.072	.036	.085	.051	.025	.050	.030	.015	.016	.010	.005	
8.0	.137	.077	.036	.118	.067	.032	.082	.047	.023	.048	.028	.013	.015	.009	.004	
9.0	.131	.073	.033	.113	.063	.029	.078	.044	.020	.046	.026	.012	.015	.009	.004	
10.0	.125	.068	.030	.108	.059	.026	.075	.042	.019	.044	.025	.011	.014	.008	.004	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:007
 Test Date:2016-08-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:5.560m [K=1.0000]
 Remarks: 529-150W-120D

UGR(Unified Glare Rating) Table

Test:U:220.0V I:0.6830A P:146.3W PF:0.9720 Freq:50.00Hz Lamp Flux:22040.1x1 lm										
NAME: LED					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.:					SUR.:0.1275*0.1275*3.14			Shielding Angle:120		
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	19.1	20.6	19.4	20.8	21.0	19.4	21.0	19.7	21.2	21.4
3H	20.5	21.9	20.8	22.1	22.4	21.1	22.5	21.4	22.7	23.0
4H	20.9	22.2	21.2	22.5	22.7	21.7	23.0	22.0	23.3	23.5
6H	21.0	22.3	21.4	22.6	22.9	22.0	23.3	22.4	23.6	23.9
8H	21.0	22.2	21.4	22.5	22.8	22.1	23.3	22.5	23.6	23.9
12H	20.9	22.1	21.3	22.4	22.7	22.1	23.3	22.5	23.6	23.9
4H 2H	19.7	21.1	20.1	21.3	21.6	20.0	21.3	20.3	21.6	21.9
3H	21.3	22.4	21.6	22.8	23.1	21.8	23.0	22.2	23.3	23.6
4H	21.8	22.8	22.2	23.2	23.5	22.5	23.6	22.9	23.9	24.2
6H	22.0	22.9	22.4	23.3	23.7	22.9	23.9	23.4	24.3	24.6
8H	22.0	22.9	22.4	23.3	23.7	23.1	23.9	23.5	24.3	24.7
12H	22.0	22.8	22.4	23.2	23.6	23.1	23.9	23.5	24.3	24.7
8H 4H	22.0	22.9	22.4	23.3	23.7	22.6	23.5	23.1	23.9	24.3
6H	22.3	23.1	22.8	23.5	23.9	23.2	23.9	23.7	24.3	24.8
8H	22.4	23.0	22.8	23.4	23.9	23.4	24.0	23.8	24.5	24.9
12H	22.3	22.9	22.8	23.4	23.8	23.5	24.0	23.9	24.5	25.0
12H 4H	22.0	22.8	22.4	23.2	23.6	22.6	23.4	23.1	23.8	24.3
6H	22.3	23.0	22.8	23.4	23.9	23.2	23.8	23.7	24.3	24.8
8H	22.4	22.9	22.9	23.4	23.9	23.4	23.9	23.9	24.4	24.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117, 22040 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 10.7)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:007
 Test Date:2016-08-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:5.560m [K=1.0000]
 Remarks: 529-150W-120D

UTILIZATION FACTORS TABLE

Test:U:220.0V I:0.6830A P:146.3W PF:0.9720 Freq:50.00Hz Lamp Flux:22040.1x1 lm		
NAME: LED	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

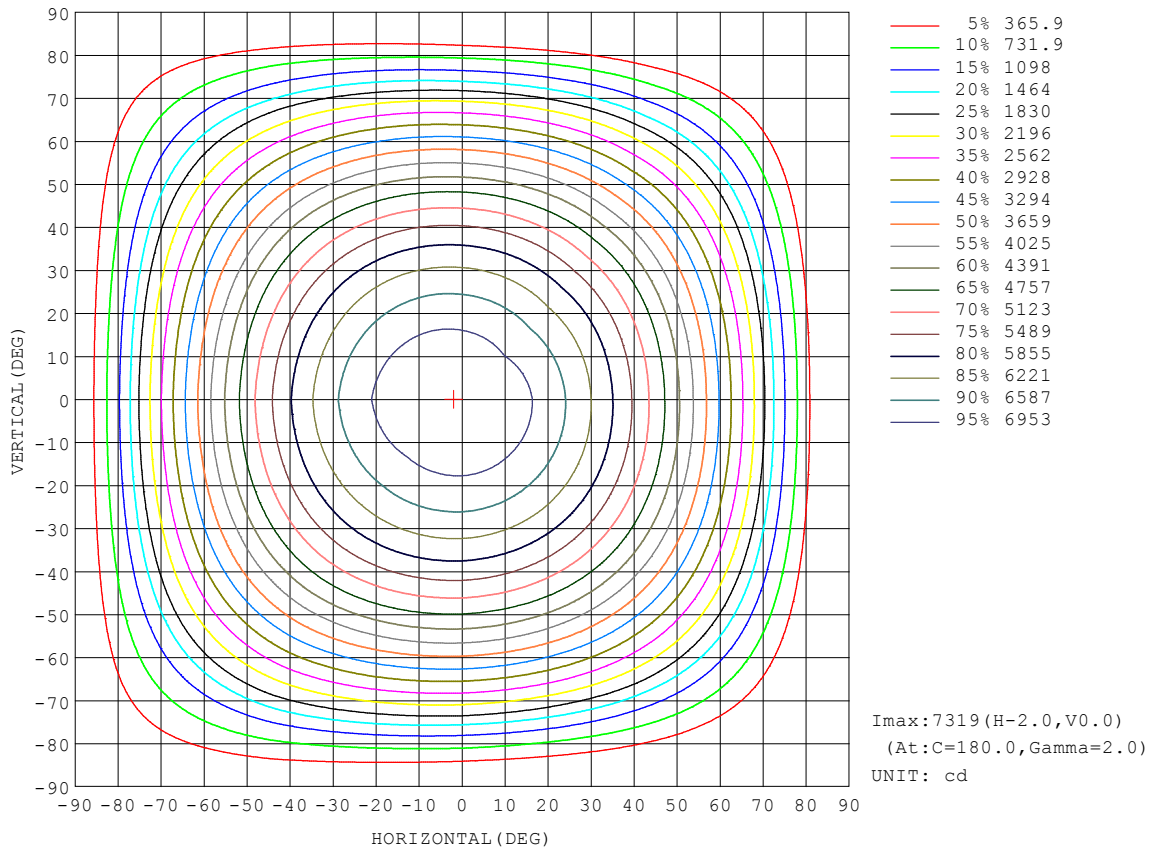
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	45	38	56	45	38	54	44	37	31
0.80	67	55	47	66	54	47	64	54	47	40
1.00	75	64	56	74	63	56	72	65	56	48
1.25	82	72	64	81	71	64	78	69	63	56
1.50	87	77	70	86	76	70	83	75	69	61
2.00	94	86	79	93	85	78	89	82	77	69
2.50	98	91	85	96	89	84	92	86	82	73
3.00	102	95	89	100	93	88	95	90	86	77
4.00	106	100	96	104	98	94	99	95	91	82
5.00	108	104	100	106	102	98	101	98	95	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:007
 Test Date:2016-08-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:5.560m [K=1.0000]
 Remarks: 529-150W-120D

ISOCANDELA DIAGRAM

Test:U:220.0V I:0.6830A P:146.3W PF:0.9720 Freq:50.00Hz Lamp Flux:22040.1x1 lm		
NAME: LED	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

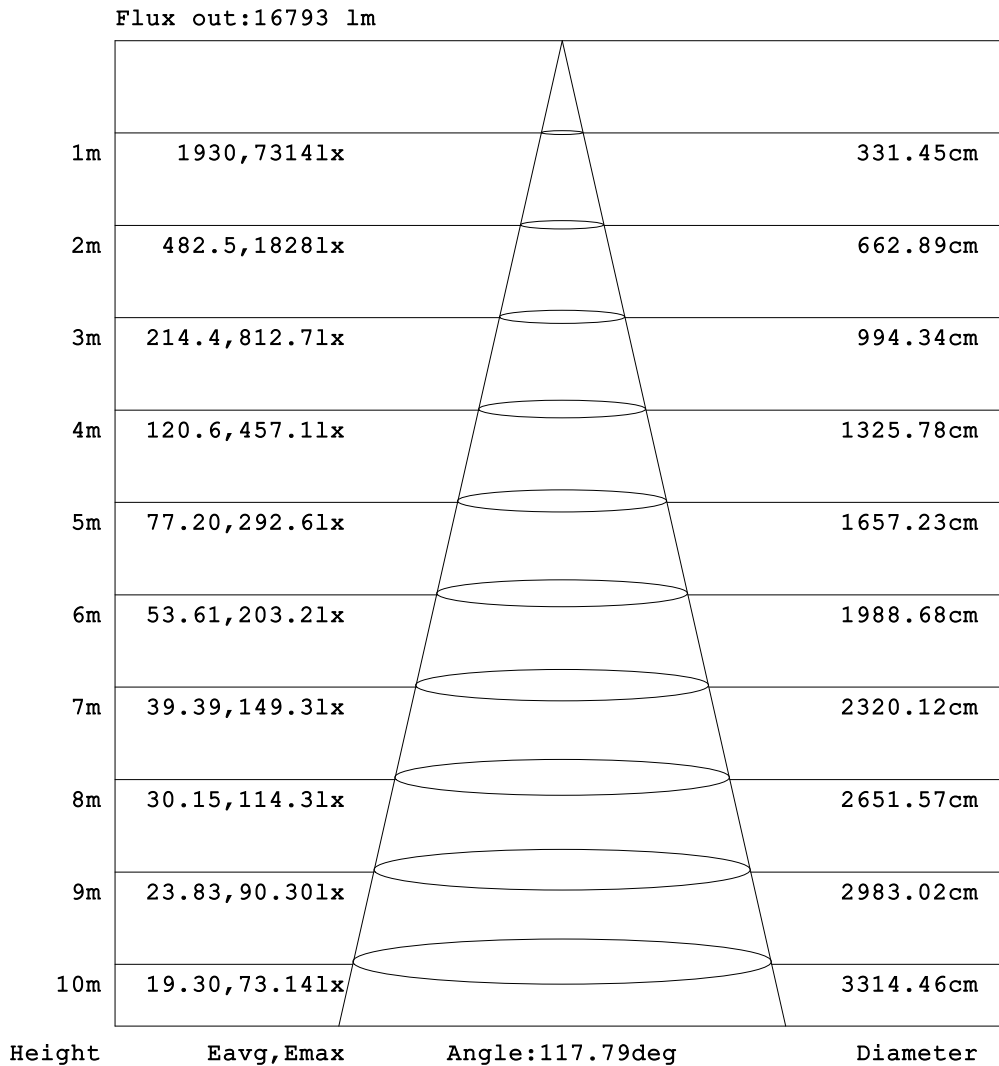


C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:007
 Test Date:2016-08-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:5.560m [K=1.0000]
 Remarks: 529-150W-120D

AAI Figure

Test:U:220.0V I:0.6830A P:146.3W PF:0.9720 Freq:50.00Hz Lamp Flux:22040.1x1 lm		
NAME: LED	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:0.1275*0.1275*3.14	Shielding Angle:120



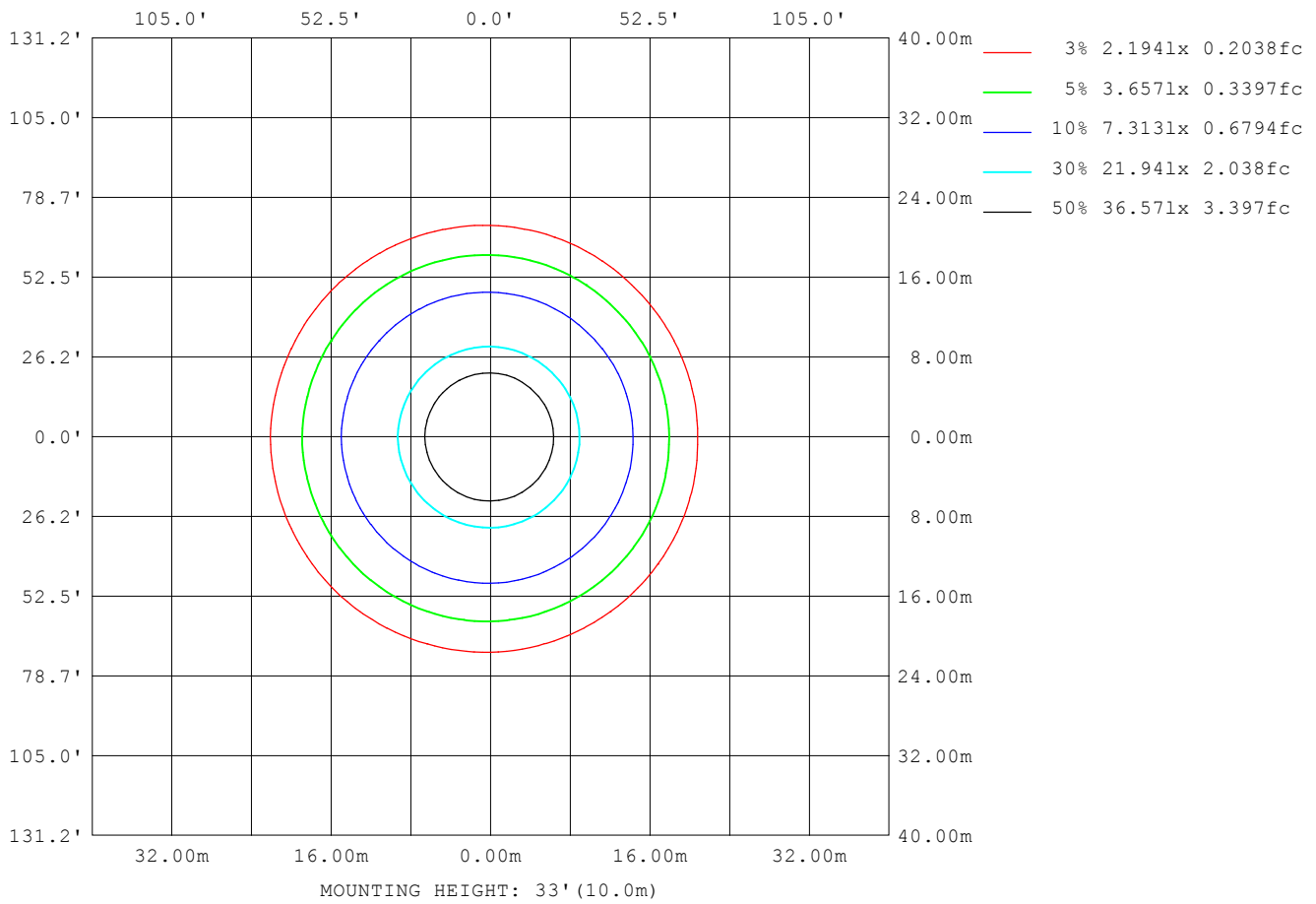
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:007
 Test Date:2016-08-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:5.560m [K=1.0000]
 Remarks: 529-150W-120D

ISOLUX DIAGRAM

Test:U:220.0V I:0.6830A P:146.3W PF:0.9720 Freq:50.00Hz Lamp Flux:22040.1x1 lm		
NAME: LED	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:0.1275*0.1275*3.14	Shielding Angle:120



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:007
 Test Date:2016-08-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:5.560m [K=1.0000]
 Remarks: 529-150W-120D

LED Avg.L Report

Test:U:220.0V I:0.6830A P:146.3W PF:0.9720 Freq:50.00Hz Lamp Flux:22040.1x1 lm		
NAME: LED	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

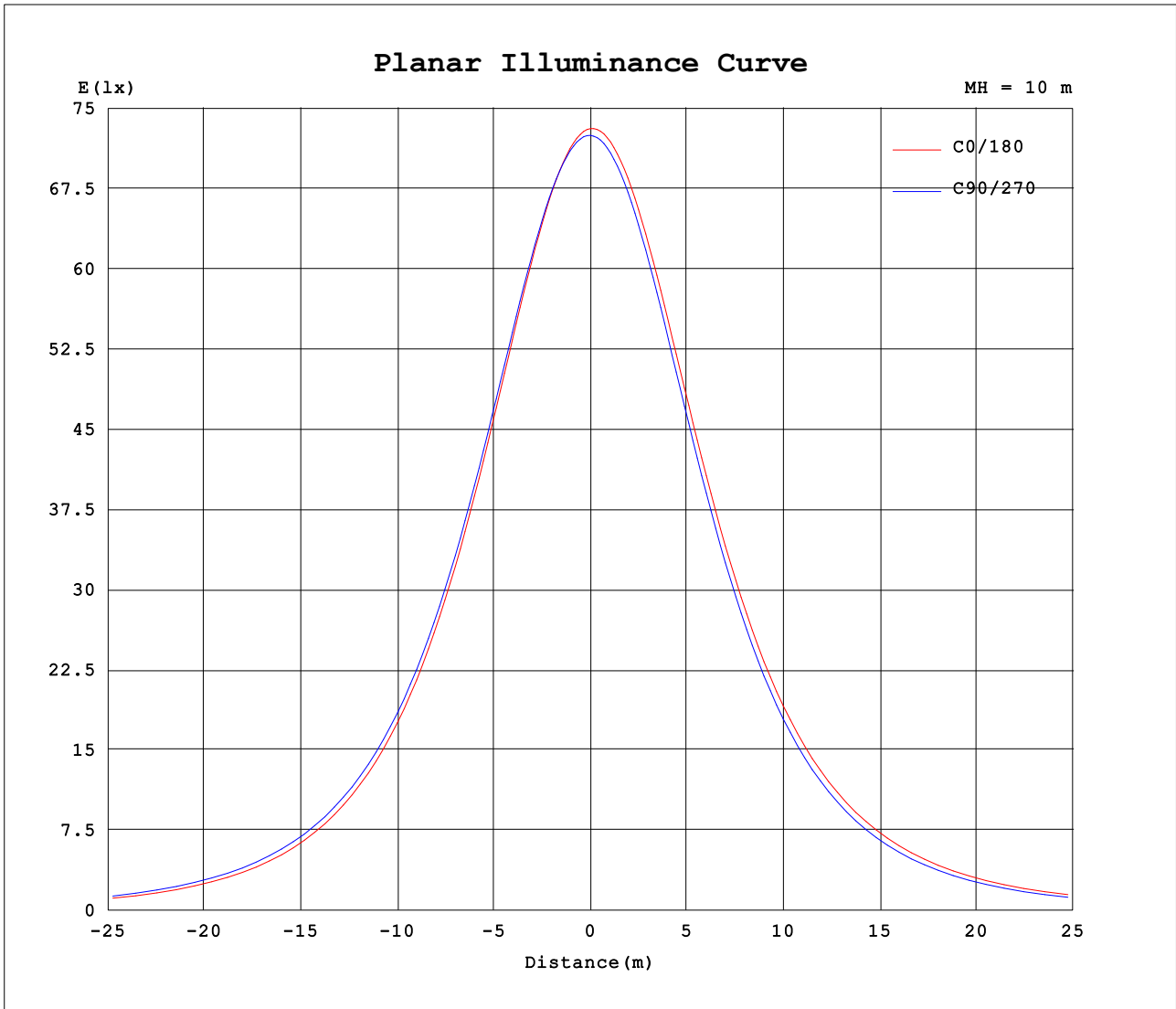
AvgL	cd/m2
L_0~180 (65) av	134921
L_0~180 (75) av	112355
L_0~180 (85) av	51175
L_90~270 (65) av	133788
L_90~270 (75) av	108343
L_90~270 (85) av	41316
L_45 (65) av	133747
L_45 (75) av	109558
L_45 (85) av	45202

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:007
 Test Date:2016-08-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:5.560m [K=1.0000]
 Remarks: 529-150W-120D

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 007
 Test Date: 2016-08-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 5.560m [K=1.0000]
 Remarks: 529-150W-120D

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.0V I:0.6830A P:146.3W PF:0.9720 Freq:50.00Hz Lamp Flux:22040.1x1 lm		
NAME: LED	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	45	90	135	180	225	270	315										
0	7313	7278	7249	7221	7313	7278	7249	7221										
5	7262	7244	7232	7219	7312	7260	7214	7173										
10	7159	7157	7163	7164	7258	7191	7127	7072										
15	7003	7018	7042	7057	7151	7069	6988	6921										
20	6795	6827	6870	6899	6992	6895	6797	6717										
25	6535	6584	6646	6689	6781	6669	6555	6462										
30	6222	6289	6369	6427	6518	6390	6262	6155										
35	5859	5943	6042	6115	6202	6061	5915	5797										
40	5443	5544	5663	5751	5834	5678	5518	5389										
45	4973	5092	5230	5333	5413	5245	5068	4928										
50	4451	4590	4747	4864	4942	4759	4569	4414										
55	3880	4034	4211	4345	4416	4220	4013	3851										
60	3259	3431	3624	3772	3842	3632	3416	3240										
65	2600	2785	2995	3155	3216	2999	2772	2591										
70	1900	2107	2330	2498	2551	2331	2094	1904										
75	1104	1300	1569	1812	1862	1566	1291	1107										
80	469	660	859	1014	1053	859	638	475										
85	14.6	123	277	412	440	259	90.0	9.47										
90	15.8	14.5	13.2	14.7	9.41	7.11	7.88	8.58										
95	19.9	18.5	17.0	16.0	8.86	9.74	10.8	11.6										
100	24.3	22.9	21.4	20.2	11.9	12.9	14.0	14.8										
105	28.8	27.3	26.0	24.4	15.2	16.4	17.5	18.3										
110	33.5	32.0	30.7	28.9	18.8	19.9	21.3	22.0										
115	38.6	36.8	35.5	33.6	22.5	23.7	25.3	25.8										
120	43.3	41.7	40.4	38.4	26.5	27.6	29.5	29.9										
125	47.5	46.3	44.9	43.1	30.6	31.6	33.5	33.7										
130	51.2	50.3	48.9	47.3	34.5	35.2	37.0	37.1										
135	53.8	53.3	51.8	50.6	37.8	38.0	40.0	39.8										
140	56.0	55.7	54.2	53.5	40.9	40.8	43.0	42.3										
145	58.2	58.2	56.4	56.1	44.2	44.3	46.8	45.8										
150	59.4	59.4	57.8	57.8	46.5	47.7	50.1	49.1										
155	61.5	61.1	60.2	60.3	50.3	51.0	53.0	52.7										
160	63.8	63.4	63.1	62.7	52.8	52.9	54.5	54.6										
165	64.7	64.4	64.2	63.5	57.4	57.1	58.4	58.9										
170	66.4	66.1	65.8	64.9	62.4	62.1	62.7	63.3										
175	67.6	66.8	66.0	65.6	65.5	64.8	65.0	65.4										
180	67.4	67.3	66.1	66.7	68.2	66.3	66.9	66.1										

C Range: 0 - 360DEG
 C Interval: 45.0DEG
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 Operators:007
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