

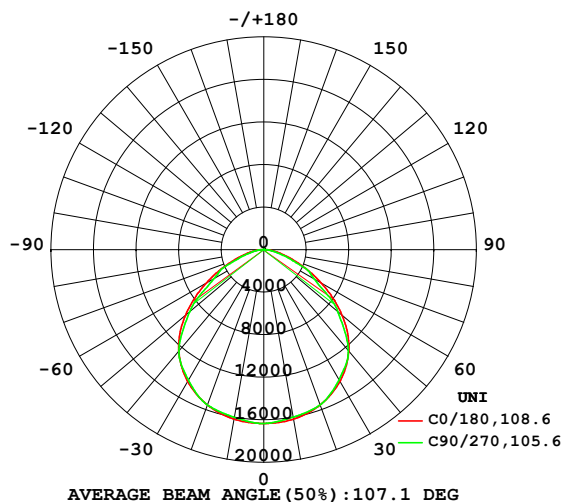
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

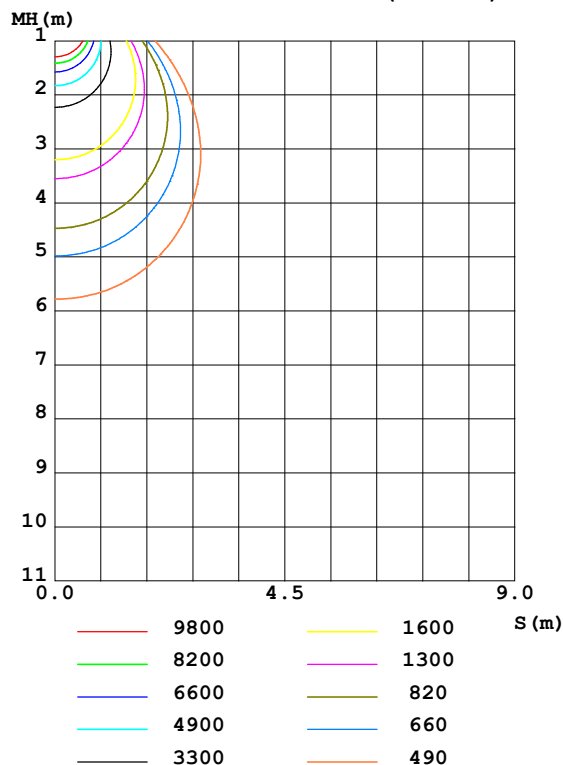
Test:U:229.5V I:1.3210A P:299.8W PF:0.9890 Freq:50.01Hz UTHDi:0% ITHDi:0% Lamp Flux:43341.5x1 lm		
NAME: LHB09-300-5070-L00404	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 144.56 lm/W			
MODEL	/	I _{max} (cd)	16345	S/MH (C0/180)	1.30
NOMINAL POWER(W)	/	LOR(%)	100.0	S/MH (C90/270)	1.29
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	43342	η UP,DN(C0-180)	0.0,50.2
NOMINAL FLUX(lm)	43341.5	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.8
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230	η down (%)	100.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:26.6DEG
Operators:LYJ
Test Date:2020-11-11

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.426
Humidity:49.8%
Test Distance:26.000m [K=0.4574]
Remarks:

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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	1619	1604	1598	1604	1619	1604	1601	1604	0- 10	1546	1546	3.57,3.57
20	1553	1545	1553	1545	1553	1542	1554	1542	10- 20	4470	6015	13.9,13.9
30	1432	1438	1415	1438	1432	1430	1418	1430	20- 30	6892	12907	29.8,29.8
40	1245	1233	1238	1233	1245	1224	1241	1224	30- 40	8376	21284	49.1,49.1
50	961.8	951.8	910.6	951.8	961.8	939.2	910.8	939.2	40- 50	8452	29736	68.6,68.6
60	621.0	607.7	543.4	607.7	621.0	589.6	535.8	589.6	50- 60	6802	36538	84.3,84.3
70	310.4	302.1	270.3	302.1	310.4	286.9	264.1	286.9	60- 70	4331	40869	94.3,94.3
80	110.8	107.5	85.04	107.5	110.8	99.31	85.94	99.31	70- 80	1985	42854	98.9,98.9
90	0	0	0	0	0	0	0	0	80- 90	487.7	43342	100,100
100	0	0	0	0	0	0	0	0	90-100	0	43342	100,100
110	0	0	0	0	0	0	0	0	100-110	0	43342	100,100
120	0	0	0	0	0	0	0	0	110-120	0	43342	100,100
130	0	0	0	0	0	0	0	0	120-130	0	43342	100,100
140	0	0	0	0	0	0	0	0	130-140	0	43342	100,100
150	0	0	0	0	0	0	0	0	140-150	0	43342	100,100
160	0	0	0	0	0	0	0	0	150-160	0	43342	100,100
170	0	0	0	0	0	0	0	0	160-170	0	43342	100,100
180	0	0	0	0	0	0	0	0	170-180	0	43342	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 25620 lm

%lum = 59.1%

%lamp = 59.1%

Conical surface Flux(120deg): 36538 lm

%lum = 84.3%

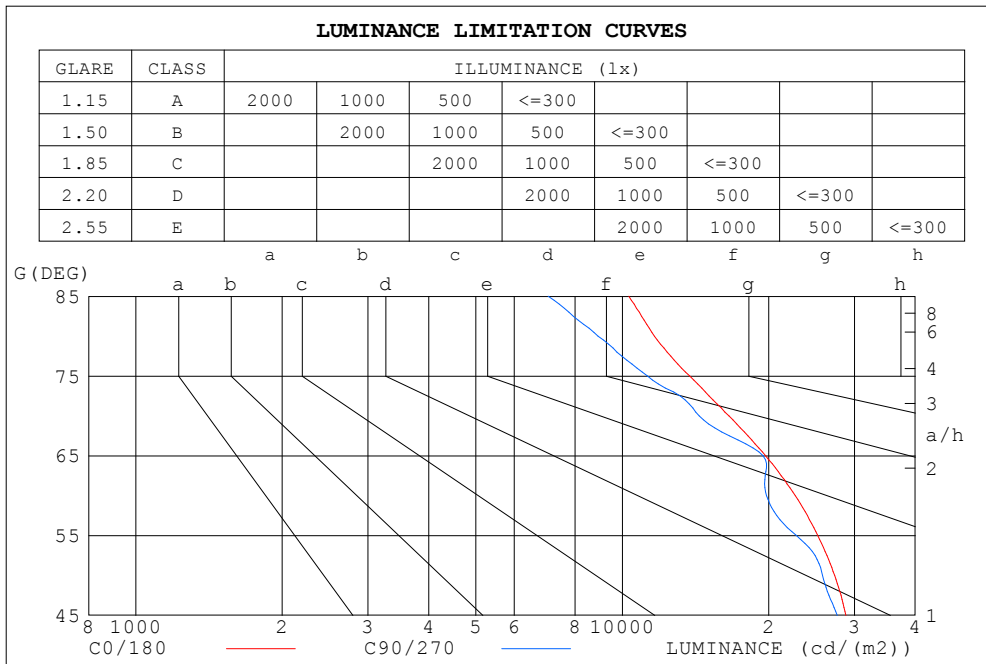
%lamp = 84.3%

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C Interval: 15.0DEG
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Test Date:2020-11-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.426
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LUMINANCE LIMITATION CURVES



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	10322	7040
80	11644	8918
75	13760	11262
70	16566	14388
65	19711	19456
60	22673	19791
55	25226	22789
50	27316	25795
45	28818	27675

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WEC AND CCEC

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	.283	.161	.051	.276	.157	.050	.263	.151	.048	.251	.145	.046	.240	.139	.045	
2.0	.271	.148	.046	.265	.146	.045	.253	.141	.044	.243	.136	.043	.233	.132	.042	
3.0	.254	.135	.040	.249	.133	.040	.238	.129	.039	.229	.125	.038	.220	.122	.038	
4.0	.237	.123	.036	.232	.121	.036	.223	.118	.035	.215	.115	.035	.207	.112	.034	
5.0	.221	.112	.033	.216	.111	.032	.208	.108	.032	.201	.106	.032	.194	.104	.031	
6.0	.206	.103	.030	.202	.102	.029	.195	.100	.029	.188	.098	.029	.182	.096	.028	
7.0	.192	.095	.027	.189	.094	.027	.183	.092	.027	.177	.091	.026	.171	.089	.026	
8.0	.181	.088	.025	.178	.087	.025	.172	.086	.025	.166	.084	.024	.161	.083	.024	
9.0	.170	.082	.023	.167	.081	.023	.162	.080	.023	.157	.079	.023	.153	.077	.022	
10.0	.160	.077	.021	.158	.076	.021	.153	.075	.021	.149	.074	.021	.145	.073	.021	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.178	.156	.136	.153	.134	.117	.104	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.169	.132	.101	.145	.114	.087	.099	.079	.061	.057	.046	.036	.018	.015	.012	
3.0	.161	.114	.077	.138	.099	.066	.095	.068	.047	.055	.040	.027	.018	.013	.009	
4.0	.154	.101	.060	.132	.087	.052	.091	.061	.037	.052	.036	.022	.017	.012	.007	
5.0	.147	.090	.049	.126	.078	.042	.087	.055	.030	.050	.032	.018	.016	.010	.006	
6.0	.140	.082	.040	.120	.071	.035	.083	.050	.025	.048	.029	.015	.015	.010	.005	
7.0	.133	.075	.034	.114	.065	.030	.079	.045	.021	.046	.027	.013	.015	.009	.004	
8.0	.127	.069	.029	.109	.060	.026	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.121	.064	.026	.104	.056	.022	.072	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.115	.060	.023	.100	.052	.020	.069	.037	.014	.040	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
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 Temperature:26.6DEG
 Operators:LYJ
 Test Date:2020-11-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.426
 Humidity:49.8%
 Test Distance:26.000m [K=0.4574]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR(Unified Glare Rating) Table

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	26.5	28.1	26.8	28.4	28.7	25.6	27.1	25.9	27.4	27.8
3H	27.7	29.2	28.1	29.5	29.8	26.8	28.2	27.2	28.6	28.9
4H	28.2	29.5	28.5	29.8	30.2	27.2	28.5	27.6	28.8	29.2
6H	28.4	29.6	28.8	30.0	30.4	27.4	28.6	27.8	29.0	29.3
8H	28.5	29.7	28.9	30.1	30.5	27.4	28.6	27.8	29.0	29.4
12H	28.6	29.7	29.0	30.1	30.5	27.4	28.6	27.9	28.9	29.4
4H 2H	26.9	28.2	27.3	28.5	28.9	26.1	27.4	26.5	27.8	28.1
3H	28.3	29.4	28.7	29.8	30.2	27.6	28.7	28.0	29.1	29.5
4H	28.8	29.8	29.3	30.2	30.7	28.0	29.0	28.4	29.4	29.8
6H	29.2	30.1	29.7	30.5	31.0	28.3	29.1	28.7	29.6	30.0
8H	29.4	30.2	29.8	30.6	31.1	28.3	29.2	28.8	29.6	30.1
12H	29.5	30.2	29.9	30.7	31.1	28.4	29.1	28.9	29.6	30.1
8H 4H	29.0	29.8	29.5	30.3	30.7	28.2	29.0	28.7	29.5	29.9
6H	29.5	30.2	30.0	30.6	31.1	28.6	29.2	29.1	29.7	30.2
8H	29.7	30.3	30.2	30.8	31.3	28.7	29.3	29.2	29.8	30.3
12H	29.8	30.4	30.4	30.9	31.4	28.8	29.3	29.3	29.8	30.4
12H 4H	29.0	29.7	29.5	30.2	30.7	28.2	29.0	28.7	29.4	29.9
6H	29.5	30.1	30.0	30.6	31.1	28.6	29.2	29.1	29.7	30.2
8H	29.7	30.3	30.2	30.8	31.3	28.8	29.3	29.3	29.8	30.4
CIE190: 2010										

CIE190: 2010
Area: 0.221 m2

C Range: 0 - 360DEG
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 γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.426
Humidity:49.8%
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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

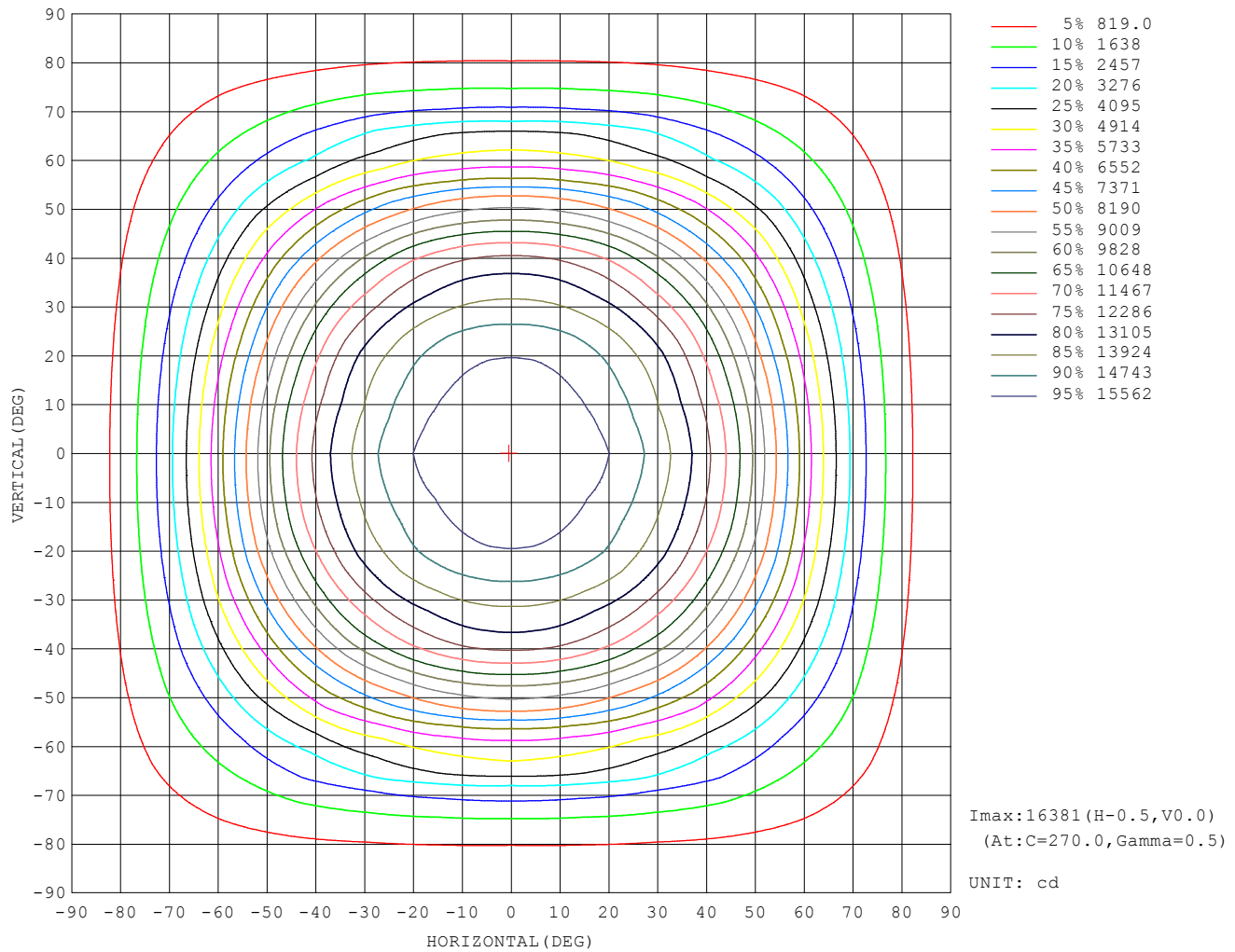
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	60	49	42	59	48	42	58	48	42	35
0.80	70	59	52	69	59	52	67	58	51	45
1.00	79	68	61	78	68	61	75	69	61	54
1.25	86	76	69	84	75	69	82	74	68	61
1.50	91	81	75	89	81	74	86	79	73	66
2.00	97	89	83	95	88	83	92	86	81	74
2.50	101	94	88	99	92	87	95	90	85	77
3.00	104	98	93	102	96	91	98	93	89	81
4.00	107	102	98	105	101	97	101	97	94	85
5.00	110	105	102	107	103	100	103	100	97	88
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.426
 Humidity: 49.8%
 Test Distance: 26.000m [K=0.4574]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

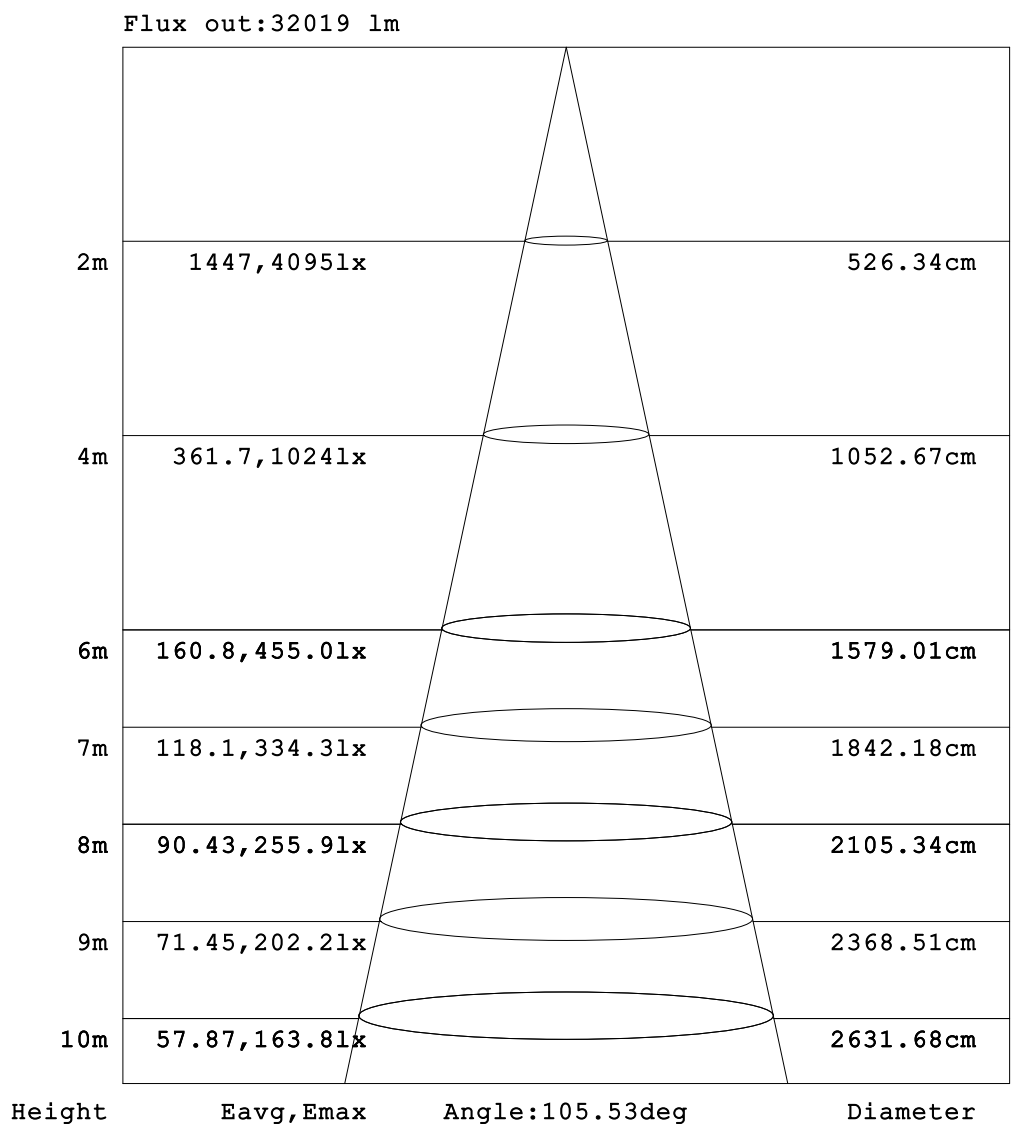
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:26.6DEG
Operators:LYJ
Test Date:2020-11-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.426
Humidity:49.8%
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Remarks:

AAI Figure



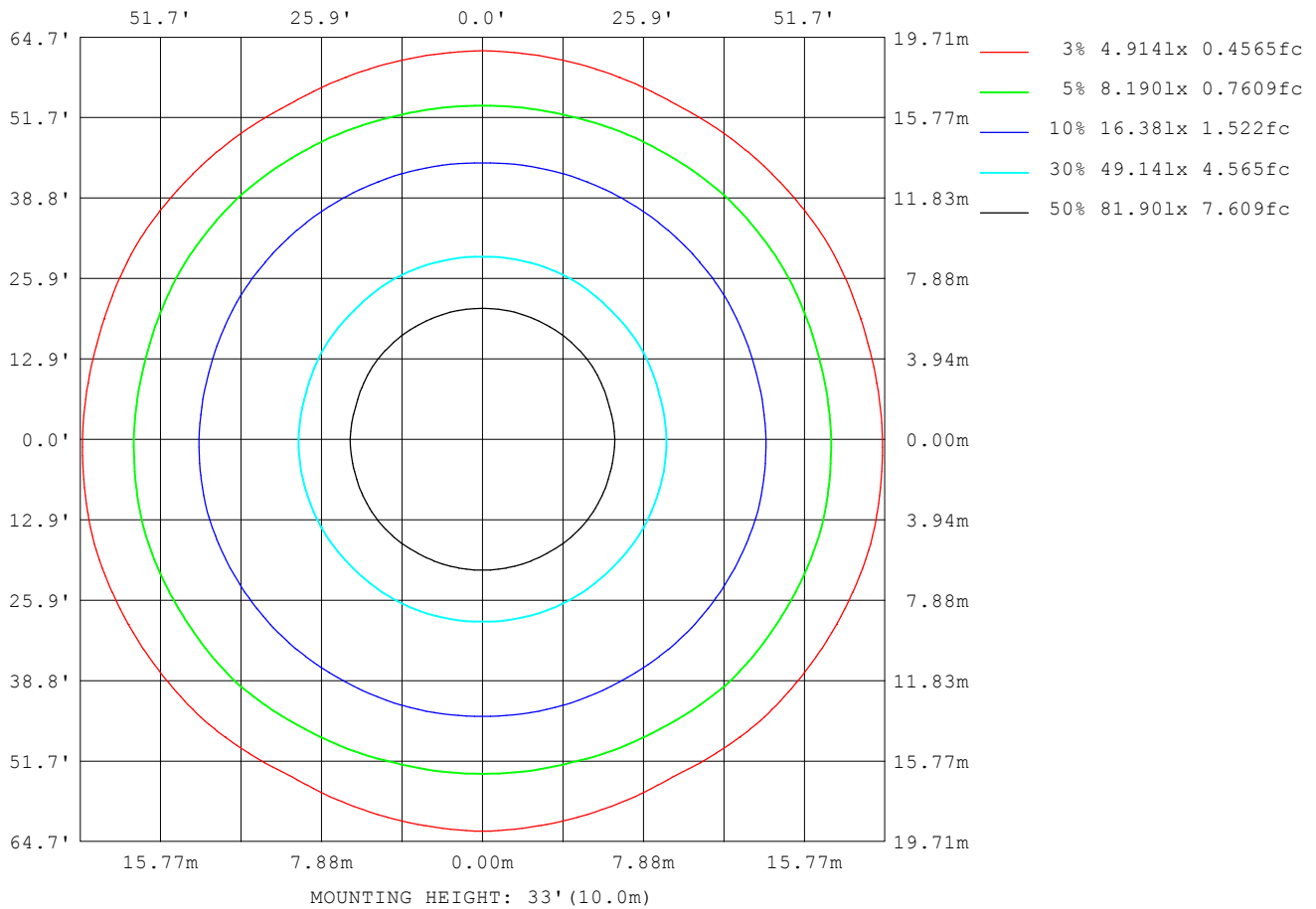
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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C Interval: 15.0DEG
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Temperature: 26.6DEG
Operators: LYJ
Test Date: 2020-11-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.426
Humidity: 49.8%
Test Distance: 26.000m [K=0.4574]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

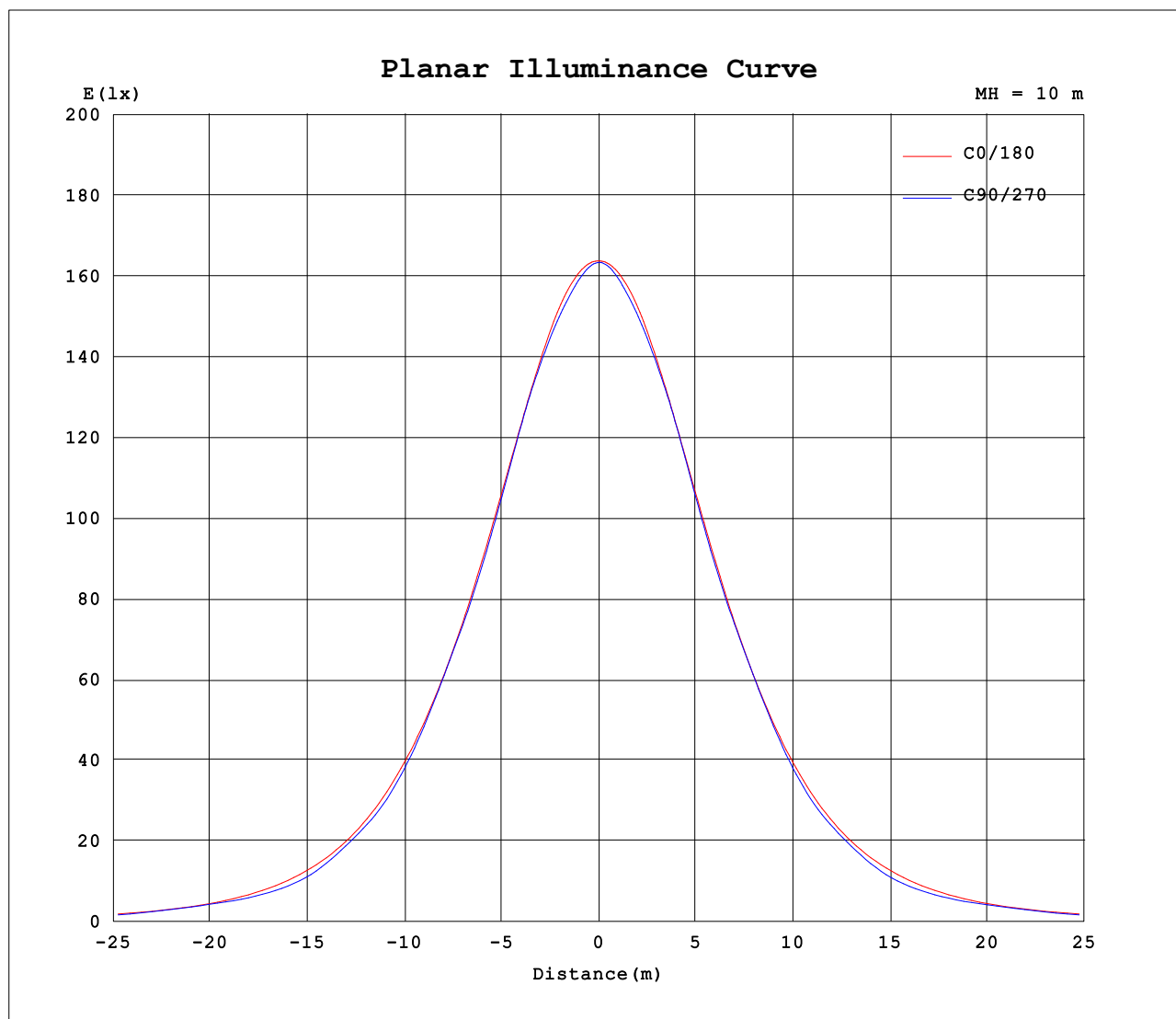
ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 26.6DEG
Operators: LYJ
Test Date: 2020-11-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
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Remarks:

Planar Illuminance Curve



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