

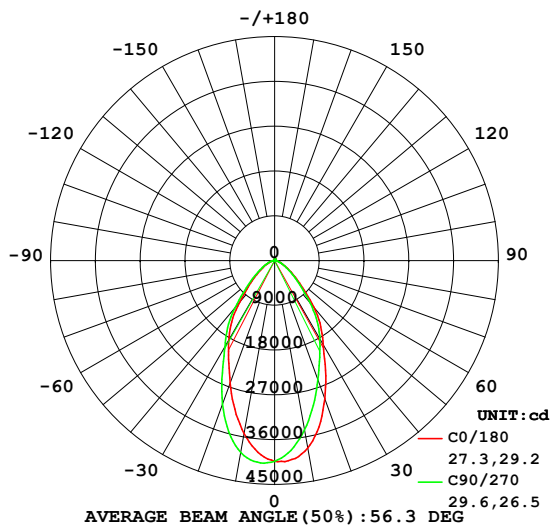
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:118.48V I:2.5092A P:296.74W PF:0.9982 Freq:60.01Hz
Lamp Flux:46179.6x1 lm

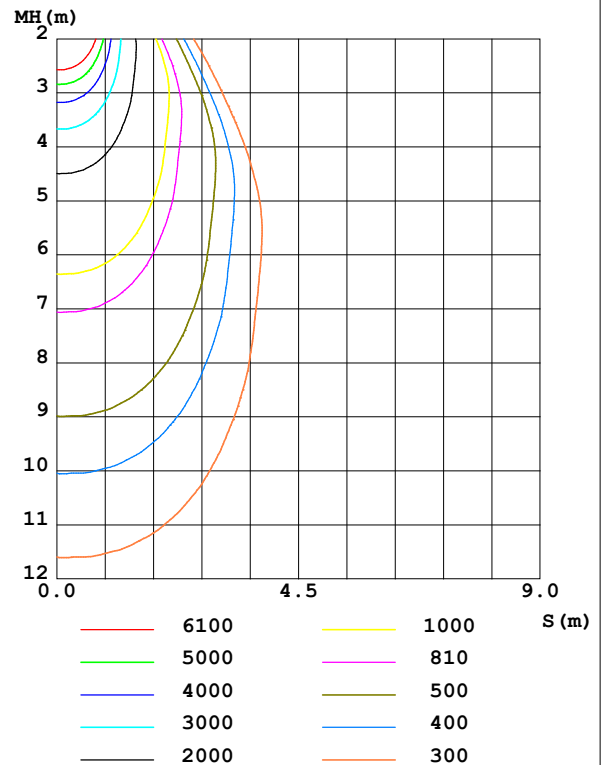
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:Havells Lighting LLC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 155.62 lm/W
MODEL	HL-RHB-MW-MCCT-ML2-300W	Imax (cd)	40879	S/MH(C0/180)	0.78	
NOMINAL POWER(W)	300	LOR(%)	100.0	S/MH(C90/270)	0.89	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	46180	η UP,DN(C0-180)	0.2,48.1	
NOMINAL FLUX(lm)	46179.6	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.2,51.6	
LAMPS INSIDE	1	η up (%)	0.3	CIBSE SHR NOM	0.75	
TEST VOLTAGE(V)	120	η down (%)	99.7	CIBSE SHR MAX	0.95	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature: 28.2°C
Operators:DAMIN
Test Date:2025-11-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.471
Humidity: 100.0%
Test Distance:26.000m [K=0.4255]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

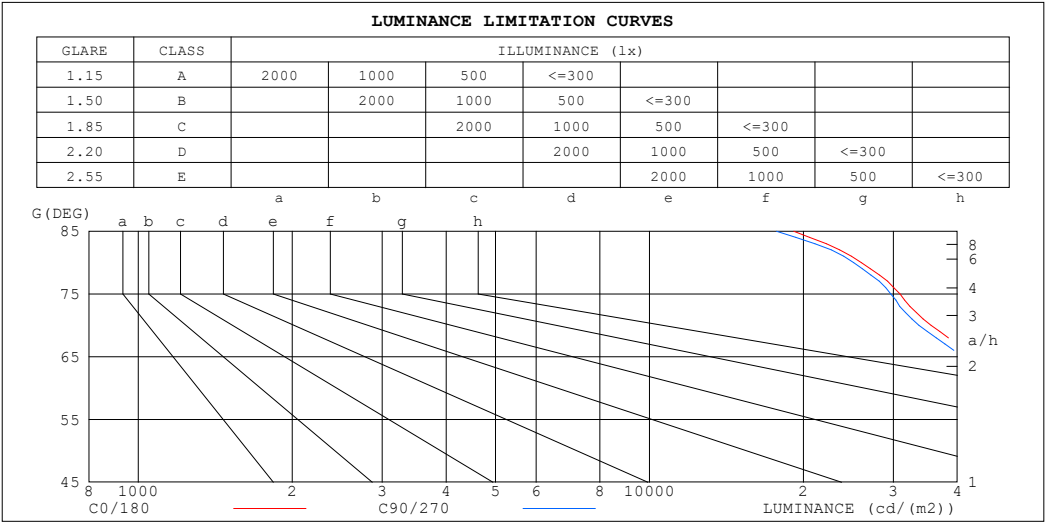
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	3829	3622	3458	3422	3532	3742	3917	3955	0- 10	3683	3683	7.98,7.98
20	2953	2721	2548	2506	2618	2837	3068	3112	10- 20	9125	12809	27.7,27.7
30	1960	1892	1821	1778	1846	1945	2002	2002	20- 30	10638	23446	50.8,50.8
40	1233	1155	1115	1064	1093	1237	1247	1282	30- 40	9706	33152	71.8,71.8
50	583.8	567.7	533.9	548.7	536.3	575.4	596.3	624.1	40- 50	6410	39562	85.7,85.7
60	272.6	266.9	256.0	258.9	255.5	266.4	282.8	290.4	50- 60	3584	43146	93.4,93.4
70	121.6	119.1	115.2	115.4	114.3	118.8	128.7	130.5	60- 70	1837	44983	97.4,97.4
80	45.06	44.73	43.57	43.44	42.65	43.63	47.08	47.42	70- 80	843.9	45827	99.2,99.2
90	1.192	0.9928	0.9908	1.059	1.003	0.9085	1.050	1.233	80- 90	198.4	46025	99.7,99.7
100	0.2606	0.2712	0.2884	0.2949	0.1972	0.1946	0.1935	0.1917	90-100	3.695	46029	99.7,99.7
110	0.5676	0.5895	0.6722	0.6438	0.2785	0.2627	0.2546	0.2581	100-110	3.388	46032	99.7,99.7
120	1.159	1.299	1.326	1.375	0.4022	0.3815	0.3792	0.3766	110-120	6.157	46038	99.7,99.7
130	2.156	2.289	2.365	2.419	0.8321	0.7897	0.7751	0.7568	120-130	10.45	46049	99.7,99.7
140	3.570	3.798	4.022	4.060	1.624	1.557	1.494	1.464	130-140	16.03	46065	99.8,99.8
150	5.565	5.840	6.105	6.129	3.012	2.900	2.772	2.788	140-150	21.72	46087	99.8,99.8
160	8.010	8.198	8.367	8.416	7.763	7.497	7.387	7.396	150-160	26.40	46113	99.9,99.9
170	14.83	14.84	14.91	15.11	35.16	35.69	36.13	36.27	160-170	37.95	46151	99.9,99.9
180	26.41	26.65	26.69	26.73	27.06	27.21	27.37	27.48	170-180	28.57	46180	100,100
DEG	LUMINOUS INTENSITY:X10cd									UNIT:lm		

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γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.471
 Humidity: 100.0%
 Test Distance:26.000m [K=0.4255]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:118.48V I:2.5092A P:296.74W PF:0.9982 Freq:60.01Hz Lamp Flux:46179.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	19150	17725
80	25959	25104
75	30900	29676
70	35572	33687
65	43457	41137
60	54540	51222
55	70044	64537
50	90861	83101
45	119120	108115

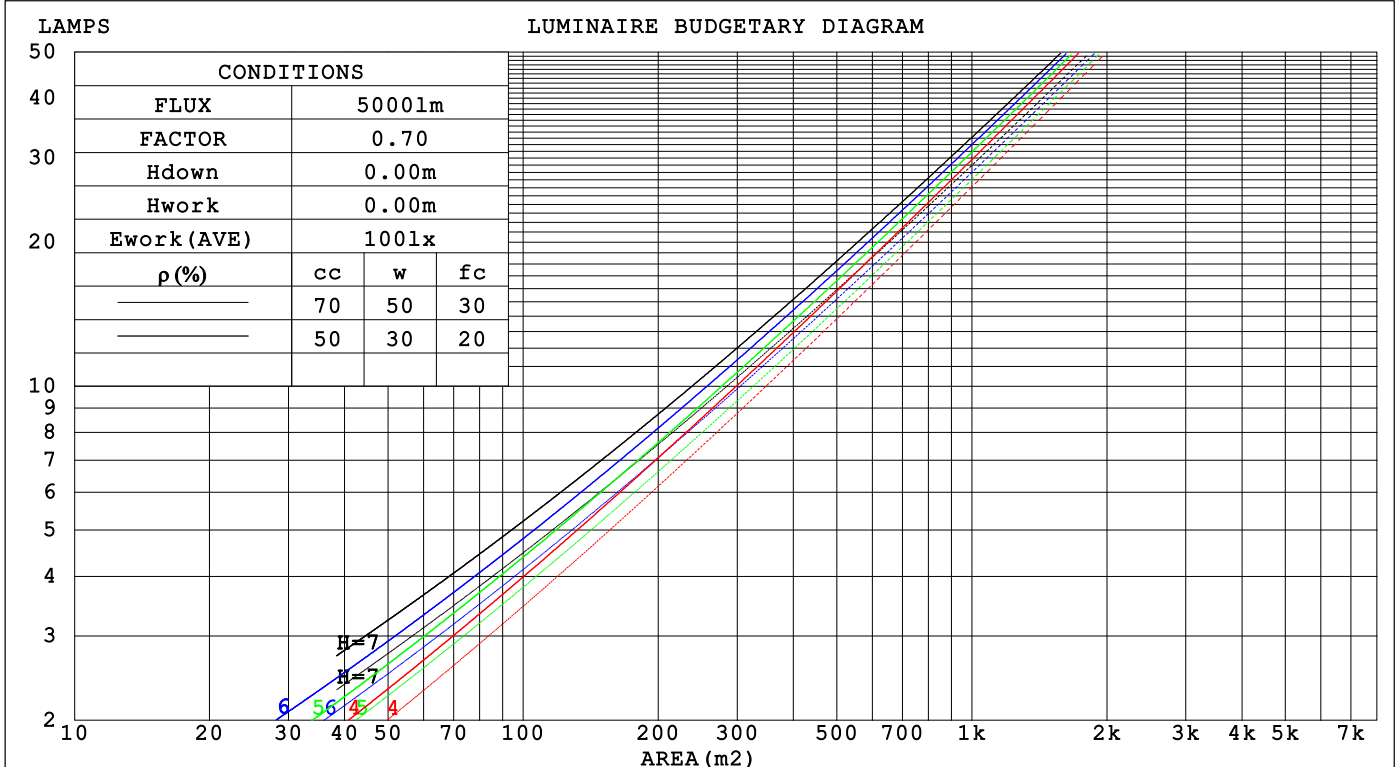
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Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.471
Humidity: 100.0%
Test Distance:26.000m [K=0.4255]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:118.48V I:2.5092A P:296.74W PF:0.9982 Freq:60.01Hz Lamp Flux:46179.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

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			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	1.02	1.02	1.02	.00
1.0	1.08	1.05	1.02	1.06	1.03	1.01	1.02	.00	.98	.98	.96	.95	.95	.93	.92	.90
2.0	.98	.93	.89	.97	.92	.88	.93	.89	.86	.90	.87	.84	.87	.85	.82	.81
3.0	.90	.84	.79	.88	.83	.78	.86	.81	.77	.83	.79	.75	.81	.77	.74	.72
4.0	.82	.75	.70	.81	.75	.70	.79	.73	.69	.77	.72	.68	.75	.70	.67	.65
5.0	.76	.69	.63	.75	.68	.63	.73	.67	.62	.71	.66	.62	.69	.65	.61	.59
6.0	.70	.63	.58	.69	.62	.57	.67	.61	.57	.66	.60	.56	.64	.60	.56	.54
7.0	.65	.58	.53	.64	.57	.53	.63	.57	.52	.61	.56	.52	.60	.55	.52	.50
8.0	.60	.53	.48	.60	.53	.48	.58	.52	.48	.57	.52	.48	.56	.51	.48	.46
9.0	.56	.50	.45	.56	.49	.45	.55	.49	.45	.54	.48	.44	.53	.48	.44	.43
10.0	.53	.46	.42	.52	.46	.42	.51	.46	.41	.51	.45	.41	.50	.45	.41	.40



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γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.471
Humidity: 100.0%
Test Distance:26.000m [K=0.4255]
Remarks:

WEC AND CCEC

Test:U:118.48V I:2.5092A P:296.74W PF:0.9982 Freq:60.01Hz Lamp Flux:46179.6x1 lm					
NAME:		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.:		SUR.:		Shielding 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	.222	.126	.040	.215	.123	.039	.202	.116	.037	.190	.110	.035	.179	.104	.034	
2.0	.214	.117	.036	.208	.114	.035	.197	.109	.034	.186	.105	.033	.177	.100	.032	
3.0	.202	.108	.032	.197	.106	.032	.188	.102	.031	.179	.098	.030	.170	.094	.029	
4.0	.191	.099	.029	.187	.098	.029	.178	.094	.028	.170	.091	.028	.163	.088	.027	
5.0	.180	.092	.027	.176	.090	.026	.169	.088	.026	.162	.085	.025	.155	.083	.025	
6.0	.170	.085	.024	.167	.084	.024	.160	.082	.024	.154	.080	.023	.148	.078	.023	
7.0	.161	.080	.023	.158	.079	.022	.152	.077	.022	.146	.075	.022	.141	.073	.022	
8.0	.152	.074	.021	.150	.074	.021	.144	.072	.021	.139	.071	.020	.135	.069	.020	
9.0	.145	.070	.020	.142	.069	.019	.137	.068	.019	.133	.067	.019	.129	.065	.019	
10.0	.138	.066	.018	.135	.065	.018	.131	.064	.018	.127	.063	.018	.123	.062	.018	

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	.193	.193	.193	.165	.165	.165	.113	.113	.113	.065	.065	.065	.021	.021	.021	
1.0	.177	.159	.144	.151	.137	.124	.103	.094	.086	.060	.054	.050	.019	.018	.016	
2.0	.164	.135	.110	.141	.116	.095	.097	.080	.066	.056	.047	.039	.018	.015	.013	
3.0	.154	.116	.086	.132	.100	.075	.091	.070	.053	.052	.041	.031	.017	.013	.010	
4.0	.145	.102	.070	.125	.088	.060	.086	.062	.043	.050	.036	.025	.016	.012	.008	
5.0	.137	.091	.057	.118	.079	.050	.081	.055	.035	.047	.032	.021	.015	.011	.007	
6.0	.130	.082	.048	.112	.071	.042	.077	.050	.030	.045	.029	.018	.014	.010	.006	
7.0	.124	.075	.041	.106	.065	.036	.074	.046	.025	.043	.027	.015	.014	.009	.005	
8.0	.118	.069	.036	.101	.060	.031	.070	.042	.022	.041	.025	.013	.013	.008	.004	
9.0	.113	.064	.031	.097	.056	.027	.067	.039	.019	.039	.023	.012	.013	.008	.004	
10.0	.108	.060	.028	.093	.052	.024	.064	.036	.017	.038	.022	.010	.012	.007	.003	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature: 28.2℃
Operators:DAMIN
Test Date:2025-11-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.471
Humidity: 100.0%
Test Distance:26.000m [K=0.4255]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:118.48V I:2.5092A P:296.74W PF:0.9982 Freq:60.01Hz Lamp Flux:46179.6x1 lm										
NAME:			TYPE:			WEIGHT:				
SPEC.:			DIM.:			SERIAL No.:				
MFR.:			SUR.:			Shielding 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	12.9	14.1	13.1	14.2	14.4	12.6	13.8	12.8	14.0	14.1
3H	13.2	14.3	13.5	14.5	14.8	13.0	14.0	13.2	14.3	14.5
4H	13.4	14.4	13.7	14.6	14.9	13.1	14.1	13.4	14.4	14.6
6H	13.5	14.4	13.8	14.7	14.9	13.2	14.1	13.5	14.4	14.7
8H	13.5	14.4	13.8	14.7	14.9	13.2	14.1	13.5	14.4	14.7
12H	13.5	14.3	13.8	14.6	14.9	13.2	14.1	13.5	14.4	14.6
4H 2H	13.0	14.0	13.3	14.2	14.5	12.7	13.7	13.0	14.0	14.2
3H	13.5	14.4	13.8	14.6	14.9	13.2	14.1	13.6	14.4	14.7
4H	13.7	14.5	14.1	14.8	15.1	13.5	14.3	13.8	14.6	14.9
6H	13.9	14.6	14.2	14.9	15.3	13.6	14.3	14.0	14.7	15.0
8H	13.9	14.6	14.3	14.9	15.3	13.7	14.3	14.1	14.7	15.1
12H	13.9	14.5	14.3	14.9	15.3	13.7	14.3	14.1	14.7	15.1
8H 4H	13.7	14.4	14.1	14.7	15.1	13.5	14.1	13.9	14.5	14.9
6H	14.0	14.5	14.4	14.9	15.3	13.8	14.3	14.2	14.7	15.1
8H	14.0	14.5	14.5	14.9	15.4	13.8	14.3	14.3	14.7	15.2
12H	14.1	14.5	14.6	14.9	15.4	13.9	14.3	14.4	14.7	15.2
12H 4H	13.7	14.3	14.1	14.7	15.1	13.5	14.1	13.9	14.4	14.9
6H	14.0	14.4	14.4	14.9	15.3	13.7	14.2	14.2	14.6	15.1
8H	14.1	14.5	14.5	14.9	15.4	13.8	14.3	14.3	14.7	15.2
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.9 / - 1.2					+ 0.9 / - 1.2				
1.5H	+ 1.2 / - 0.9					+ 1.1 / - 0.8				
2.0H	+ 1.9 / - 1.4					+ 1.7 / - 1.3				

CIE Pub.117, 46180 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 13.3)
Area: 0.1 m2

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Operators:DAMIN
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.471
Humidity: 100.0%
Test Distance:26.000m [K=0.4255]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:118.48V I:2.5092A P:296.74W PF:0.9982 Freq:60.01Hz Lamp Flux:46179.6x1 lm		
NAME:	TYPE:	WEIGHT:
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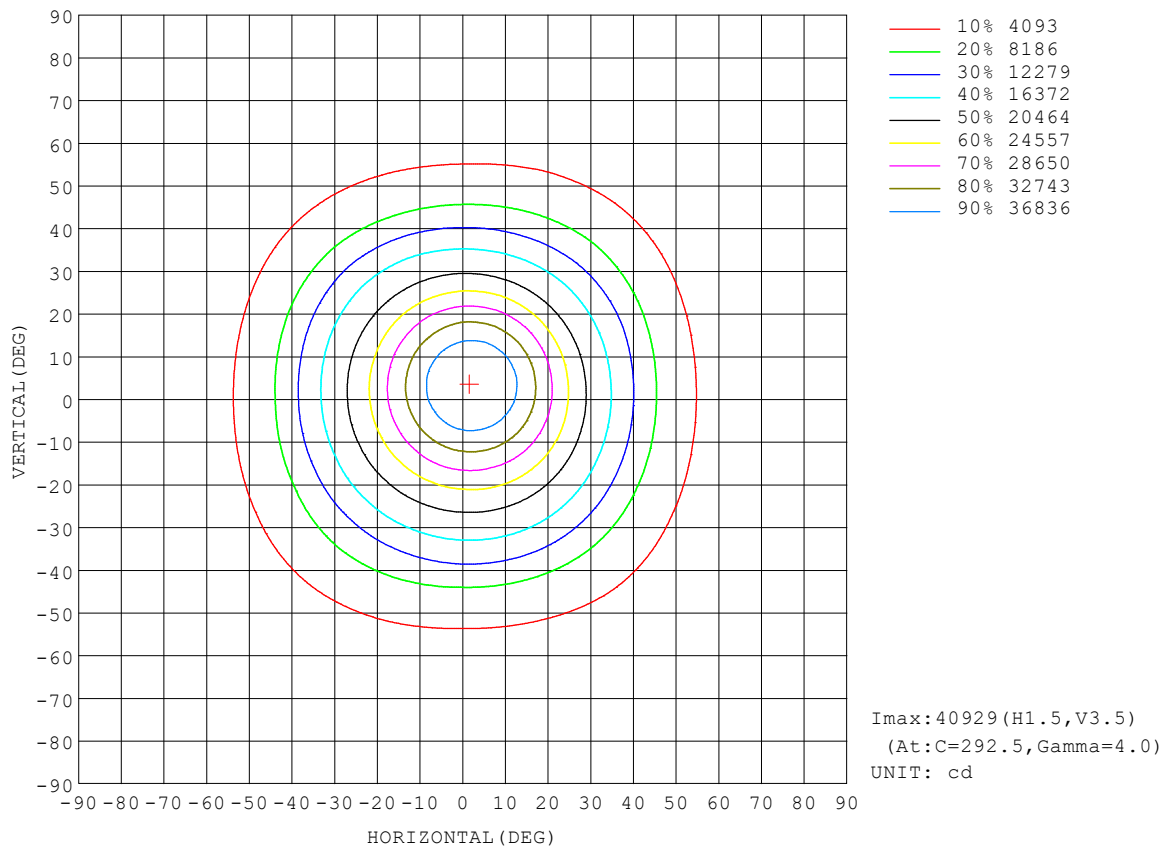
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	74	65	60	73	65	60	72	64	60	55
0.80	83	74	69	82	74	69	81	73	69	64
1.00	90	82	77	89	81	76	87	82	76	70
1.25	95	88	83	94	87	82	92	86	82	76
1.50	99	92	87	97	91	87	95	90	86	80
2.00	103	98	93	102	96	92	99	94	91	85
2.50	106	101	96	104	99	96	101	97	94	87
3.00	108	103	100	106	102	99	103	99	96	89
4.00	111	107	104	109	105	102	105	102	100	92
5.00	112	109	106	110	107	105	106	104	102	93
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.471
Humidity: 100.0%
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Remarks:

ISOCANDELA DIAGRAM

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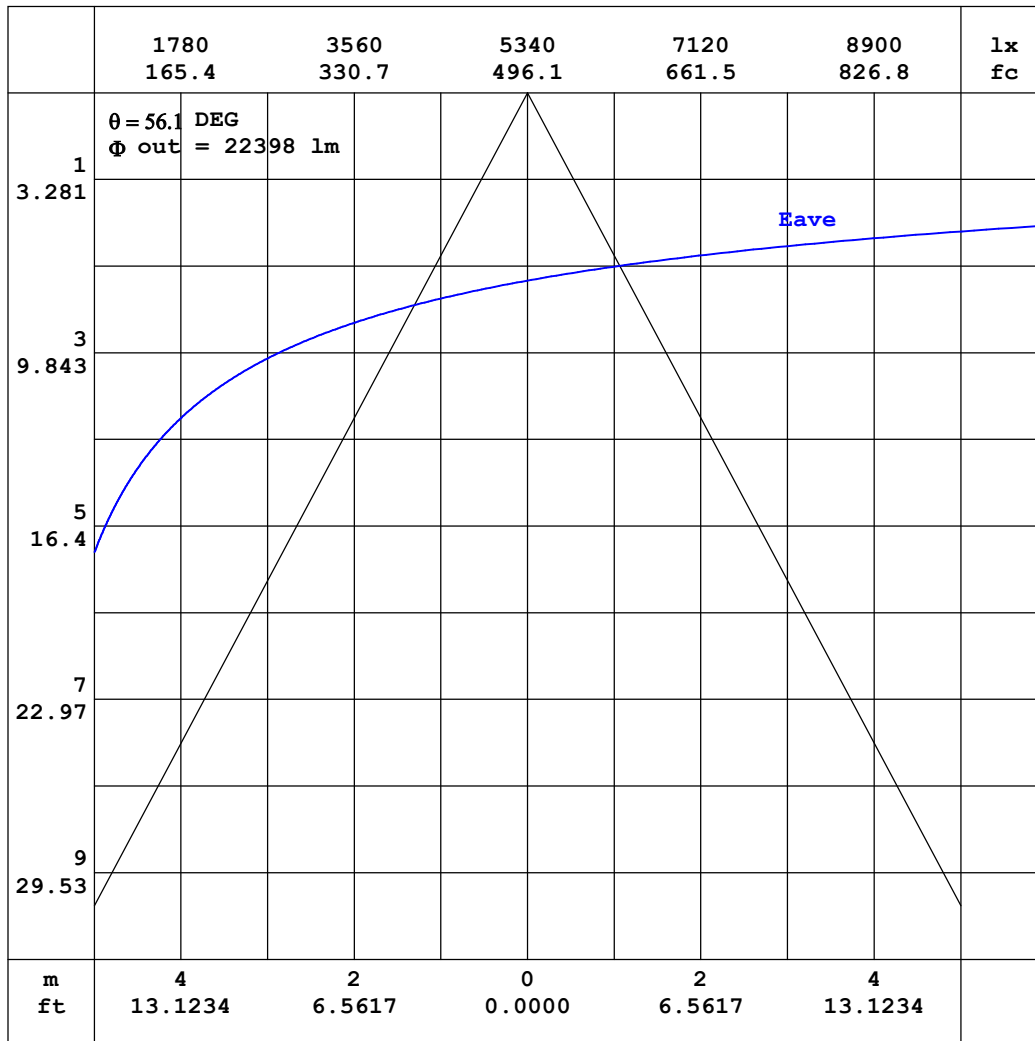


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γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.471
Humidity: 100.0%
Test Distance:26.000m [K=0.4255]
Remarks:

AAI CURVES

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NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
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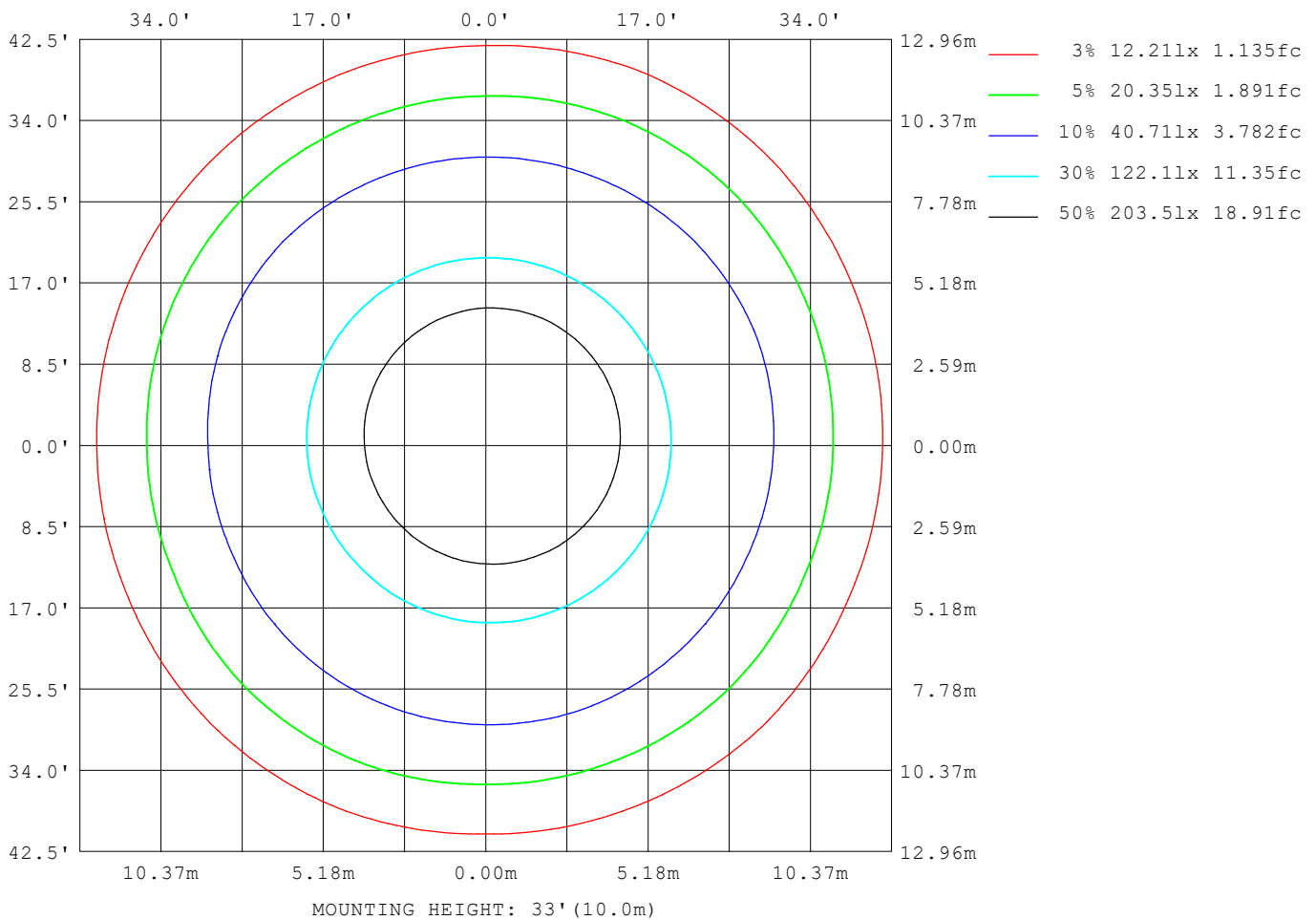
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.471
Humidity: 100.0%
Test Distance:26.000m [K=0.4255]
Remarks:

ISOLUX DIAGRAM

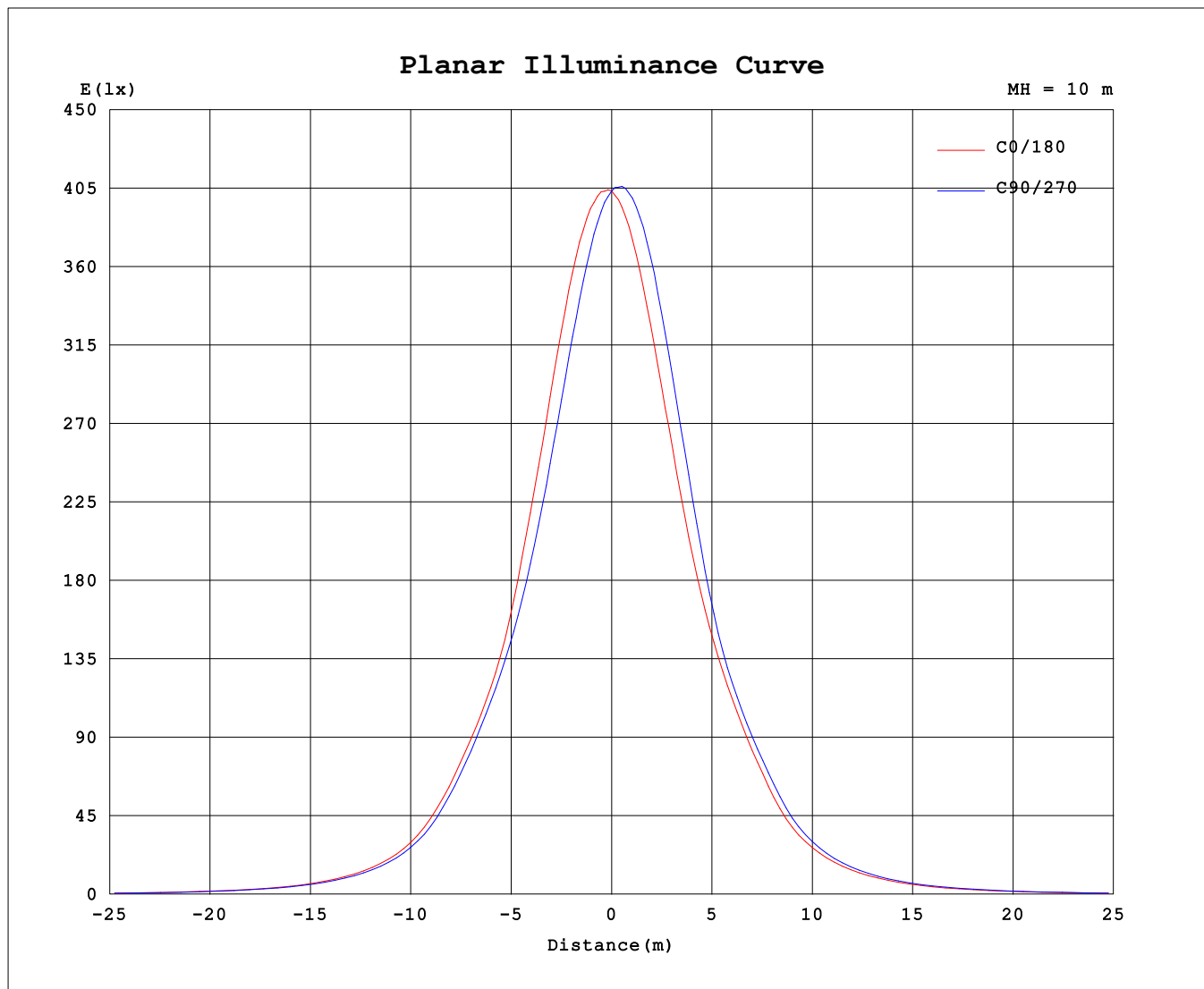
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Remarks:

Planar Illuminance Curve



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Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.471
Humidity: 100.0%
Test Distance:26.000m [K=0.4255]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:118.48V I:2.5092A P:296.74W PF:0.9982 Freq:60.01Hz Lamp Flux:46179.6x1 lm																	
NAME:									TYPE:						WEIGHT:		
SPEC.:									DIM.:						SERIAL No.:		
MFR.:									SUR.:						Shielding Angle:		

Table--1

UNIT: X10cd

C (DEG) γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	4032	4032	4032	4032	4032	4032	4032	4032	4032	4032	4032	4032	4032	4032	4032	4032			
5	4012	3967	3915	3864	3828	3806	3804	3826	3870	3928	3983	4027	4064	4088	4084	4064			
10	3829	3727	3622	3528	3458	3423	3422	3462	3532	3631	3742	3842	3917	3959	3955	3919			
15	3458	3330	3196	3082	3008	2976	2980	3021	3094	3202	3332	3459	3568	3626	3620	3561			
20	2953	2838	2721	2619	2548	2509	2506	2540	2618	2717	2837	2964	3068	3124	3112	3052			
25	2427	2348	2263	2196	2148	2119	2112	2137	2191	2258	2336	2419	2494	2538	2537	2500			
30	1960	1929	1892	1855	1821	1790	1778	1800	1846	1898	1945	1981	2002	2008	2002	1992			
35	1625	1586	1557	1533	1498	1463	1445	1460	1507	1572	1626	1650	1652	1660	1663	1651			
40	1233	1188	1155	1141	1115	1082	1064	1059	1093	1174	1237	1245	1247	1260	1282	1283			
45	842	817	804	782	764	774	772	745	759	807	837	839	855	872	892	885			
50	584	567	568	547	534	549	549	534	536	557	575	589	596	623	624	605			
55	402	389	392	378	370	380	378	370	371	378	393	406	411	433	427	413			
60	273	266	267	260	256	259	259	254	255	258	266	278	283	295	290	281			
65	184	180	180	176	174	174	174	172	173	174	179	188	193	199	196	190			
70	122	120	119	117	115	114	115	115	114	115	119	125	129	132	131	126			
75	79.9	79.4	78.3	78.7	76.8	77.1	76.4	75.5	74.8	75.5	78.5	81.0	83.4	84.2	85.7	83.3			
80	45.1	45.0	44.7	45.2	43.6	43.7	43.4	43.1	42.6	41.9	43.6	45.3	47.1	47.4	47.4	46.7			
85	16.7	16.7	16.4	16.4	15.4	15.5	15.3	14.8	14.7	14.1	15.2	16.1	16.8	17.2	17.3	17.0			
90	1.19	1.09	0.99	1.00	0.99	1.04	1.06	1.02	1.00	0.93	0.91	0.98	1.05	1.17	1.23	1.27			
95	0.21	0.21	0.22	0.22	0.23	0.23	0.23	0.23	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.21			
100	0.26	0.26	0.27	0.28	0.29	0.30	0.29	0.29	0.20	0.19	0.19	0.19	0.19	0.19	0.19	0.19			
105	0.38	0.39	0.40	0.41	0.42	0.44	0.43	0.42	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21			
110	0.57	0.57	0.59	0.61	0.67	0.65	0.64	0.63	0.28	0.27	0.26	0.26	0.25	0.25	0.26	0.25			
115	0.81	0.85	0.88	0.89	0.98	0.95	0.96	0.95	0.36	0.33	0.32	0.32	0.31	0.32	0.34	0.32			
120	1.16	1.24	1.30	1.31	1.33	1.34	1.38	1.38	0.40	0.39	0.38	0.38	0.38	0.38	0.38	0.37			
125	1.63	1.71	1.76	1.79	1.80	1.82	1.85	1.85	0.57	0.56	0.54	0.54	0.53	0.53	0.53	0.52			
130	2.16	2.22	2.29	2.33	2.37	2.40	2.42	2.40	0.83	0.81	0.79	0.78	0.78	0.77	0.76	0.76			
135	2.79	2.87	2.97	3.05	3.11	3.16	3.17	3.14	1.16	1.13	1.11	1.10	1.08	1.06	1.05	1.06			
140	3.57	3.66	3.80	3.93	4.02	4.06	4.06	4.01	1.62	1.59	1.56	1.52	1.49	1.47	1.46	1.50			
145	4.50	4.61	4.77	4.93	5.04	5.08	5.05	5.01	2.17	2.13	2.09	2.03	1.99	1.97	1.98	2.03			
150	5.56	5.68	5.84	5.99	6.11	6.15	6.13	6.08	3.01	2.96	2.90	2.83	2.77	2.76	2.79	2.84			
155	6.68	6.78	6.91	7.03	7.13	7.17	7.17	7.13	4.50	4.40	4.32	4.24	4.18	4.17	4.19	4.25			
160	8.01	8.09	8.20	8.29	8.37	8.40	8.42	8.40	7.76	7.61	7.50	7.43	7.39	7.37	7.40	7.47			
165	10.3	10.4	10.5	10.5	10.6	10.6	10.7	10.7	15.4	15.3	15.2	15.2	15.2	15.3	15.3	15.4			
170	14.8	14.8	14.8	14.9	14.9	15.0	15.1	15.2	35.2	35.4	35.7	35.9	36.1	36.2	36.3	36.3			
175	20.0	19.8	19.9	19.9	19.9	20.1	20.2	20.4	43.3	43.4	43.9	44.1	44.3	44.4	44.4	44.3			
180	26.4	26.5	26.7	26.7	26.7	26.7	26.7	26.7	27.1	27.1	27.2	27.3	27.4	27.4	27.5	27.5			

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature: 28.2℃
Operators:DAMIN
Test Date:2025-11-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.471
Humidity: 100.0%
Test Distance:26.000m [K=0.4255]
Remarks: