

```

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.416
Humidity: 40.3%
Test Distance:2.500m [K=1.0461]
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	837.4	844.0	896.9	851.9	848.4	846.9	897.0	842.5	0- 10	84.79	84.79	3.81,3.81
20	664.5	653.4	671.9	672.9	679.9	672.3	680.8	669.3	10- 20	215.3	300.1	13.5,13.5
30	421.0	421.0	421.3	434.4	434.0	440.2	439.3	434.3	20- 30	248.1	548.2	24.6,24.6
40	268.8	253.1	251.9	258.1	276.8	265.7	265.0	261.4	30- 40	211.3	759.5	34.1,34.1
50	150.9	143.4	141.1	145.3	155.6	151.2	148.6	146.8	40- 50	153.9	913.4	41,41
60	67.26	70.54	66.33	71.26	70.19	76.46	71.21	72.17	50- 60	94.95	1008	45.3,45.3
70	32.54	28.31	27.10	29.06	34.21	31.23	29.19	29.04	60- 70	47.59	1056	47.4,47.4
80	10.15	7.441	7.309	8.401	10.84	8.707	8.065	8.053	70- 80	18.82	1075	48.3,48.3
90	0.0788	0.1262	0.1687	0.1086	0.0696	0.0820	0.0738	0.0775	80- 90	4.260	1079	48.5,48.5
100	12.04	9.950	9.702	9.896	12.37	9.585	8.264	8.528	90-100	4.880	1084	48.7,48.7
110	38.06	34.72	34.53	35.69	38.84	33.32	30.25	32.39	100-110	21.77	1106	49.7,49.7
120	78.12	84.72	83.16	86.69	79.48	81.08	74.78	79.84	110-120	54.67	1160	52.1,52.1
130	172.0	168.2	169.3	170.5	174.2	162.4	157.3	159.1	120-130	107.7	1268	57,57
140	303.4	295.5	296.6	295.1	306.7	286.7	278.4	276.4	130-140	172.4	1440	64.7,64.7
150	472.4	481.3	482.5	479.5	476.7	463.7	461.2	456.6	140-150	234.0	1674	75.2,75.2
160	676.8	700.1	703.8	699.1	672.7	675.0	677.8	671.7	150-160	262.6	1937	87,87
170	798.4	806.8	839.2	803.0	792.9	787.2	810.7	788.1	160-170	211.1	2148	96.5,96.5
180	837.4	837.4	837.4	837.4	837.4	837.4	837.4	837.4	170-180	77.93	2226	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 844.34 lm

%lum = 37.9%

%lamp = 37.9%

Conical surface Flux(120deg): 1008.4 lm

%lum = 45.3%

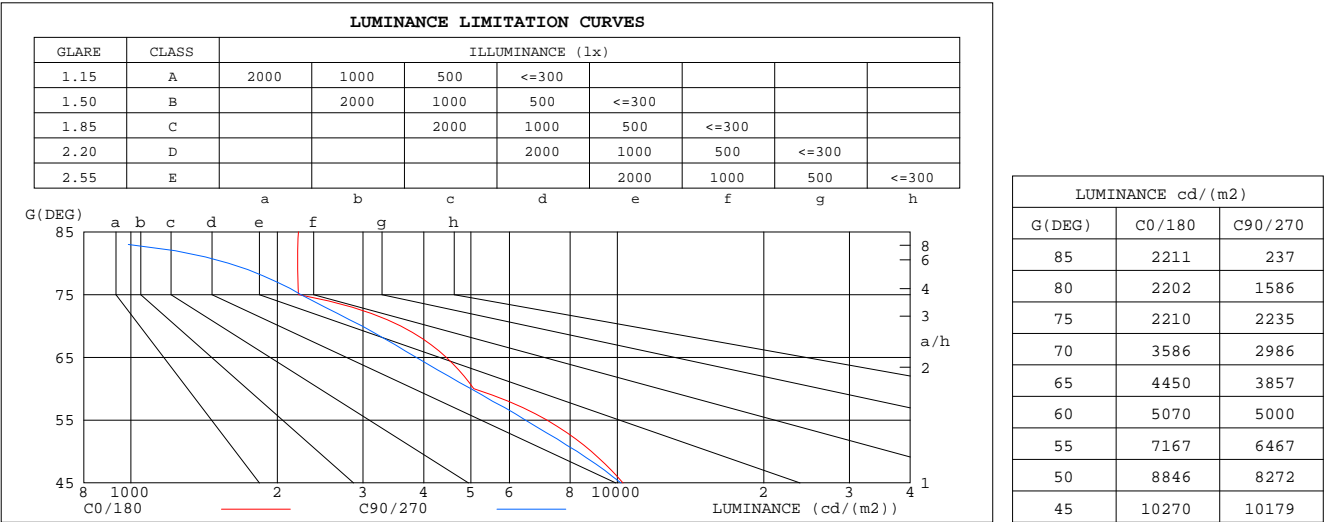
%lamp = 45.3%

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Alan Wang
Test Date: 17 October 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
Humidity: 40.3%
Test Distance: 2.500m [K=1.0461]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:0.1265A P:15.12W PF:0.9963 Freq:60.00Hz Lamp Flux:2226.17x1 lm		
NAME: Optic/CCT/Wattage/Up & Down Light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDVANCE LLC	SUR.:	Shielding Angle:



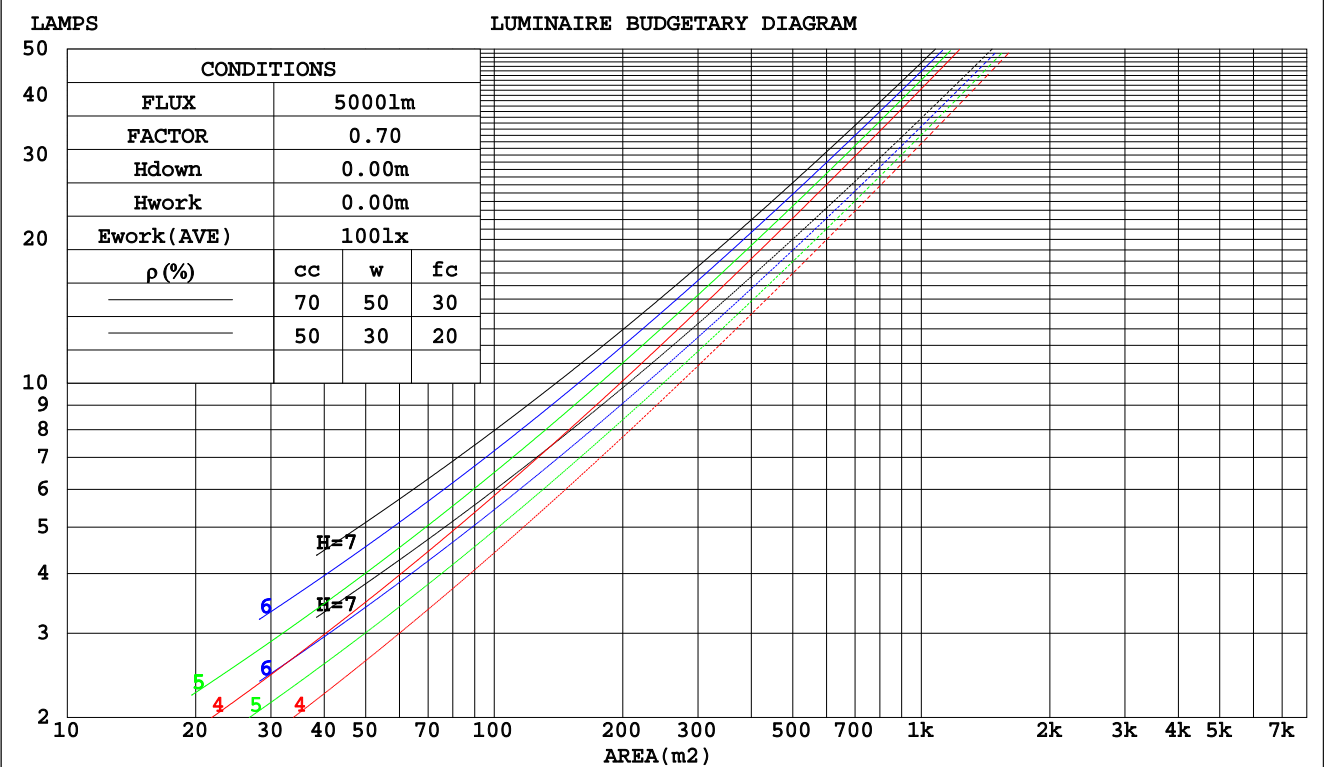
C Range: 0 - 360DEG
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Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.1265A P:15.12W PF:0.9963 Freq:60.00Hz Lamp Flux:2226.17x1 lm		
NAME: Optic/CCT/Wattage/Up & Down Light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDVANCE LLC	SUR.:	Shielding Angle:

pcc	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															



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
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WEC AND CCEC

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SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDVANCE LLC	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	.241	.137	.043	.219	.125	.040	.176	.101	.032	.138	.079	.026	.102	.059	.019		
2.0	.226	.124	.038	.206	.113	.035	.168	.093	.029	.133	.074	.023	.100	.057	.018		
3.0	.212	.113	.034	.193	.103	.031	.158	.086	.026	.126	.069	.021	.096	.053	.016		
4.0	.198	.103	.030	.181	.095	.028	.149	.079	.024	.119	.064	.019	.091	.050	.015		
5.0	.185	.094	.027	.169	.087	.025	.140	.073	.021	.112	.059	.018	.087	.046	.014		
6.0	.173	.087	.025	.159	.080	.023	.132	.068	.020	.106	.055	.016	.083	.043	.013		
7.0	.163	.081	.023	.150	.075	.021	.124	.063	.018	.101	.052	.015	.079	.041	.012		
8.0	.153	.075	.021	.141	.069	.020	.118	.059	.017	.096	.048	.014	.075	.038	.011		
9.0	.145	.070	.020	.133	.065	.018	.111	.055	.016	.091	.046	.013	.071	.036	.010		
10.0	.137	.066	.018	.126	.061	.017	.106	.052	.015	.086	.043	.012	.068	.034	.010		

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	.583	.583	.583	.498	.498	.498	.340	.340	.340	.195	.195	.195	.062	.062	.062	
1.0	.571	.553	.536	.489	.474	.461	.334	.326	.319	.192	.189	.185	.062	.061	.060	
2.0	.562	.531	.504	.481	.457	.436	.330	.316	.304	.190	.184	.178	.061	.059	.058	
3.0	.554	.515	.483	.475	.444	.419	.326	.308	.294	.188	.180	.173	.060	.058	.057	
4.0	.547	.502	.468	.469	.434	.407	.323	.302	.287	.187	.177	.170	.060	.058	.056	
5.0	.540	.493	.458	.464	.426	.398	.319	.298	.281	.185	.175	.167	.060	.057	.055	
6.0	.534	.485	.450	.459	.420	.392	.316	.294	.277	.184	.173	.165	.059	.057	.054	
7.0	.528	.479	.444	.454	.415	.387	.314	.291	.274	.182	.171	.163	.059	.056	.054	
8.0	.523	.473	.440	.450	.411	.383	.311	.288	.272	.181	.170	.162	.059	.056	.054	
9.0	.517	.469	.436	.446	.407	.380	.309	.286	.270	.180	.169	.161	.058	.055	.053	
10.0	.513	.465	.433	.442	.404	.378	.307	.284	.269	.179	.168	.160	.058	.055	.053	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 17 October 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 40.3%
 Test Distance: 2.500m [K=1.0461]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.1265A P:15.12W PF:0.9963 Freq:60.00Hz Lamp Flux:2226.17x1 lm											
NAME: Optic/CCT/Wattage/Up & Down Light					TYPE:LED			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.: LEDVANCE LLC					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	2H	14.7	15.5	15.6	16.4	17.4	14.3	15.2	15.2	16.0	17.1
	3H	15.0	15.8	15.9	16.6	17.8	14.6	15.3	15.4	16.2	17.3
	4H	15.0	15.7	16.0	16.6	17.8	14.5	15.2	15.5	16.1	17.3
	6H	15.0	15.6	15.9	16.5	17.7	14.5	15.1	15.4	16.0	17.2
	8H	15.0	15.6	15.9	16.5	17.7	14.4	15.0	15.3	15.9	17.1
	12H	14.9	15.5	15.9	16.4	17.6	14.3	14.9	15.3	15.8	17.0
4H	2H	14.6	15.3	15.5	16.2	17.3	14.3	15.0	15.2	15.9	17.0
	3H	15.1	15.6	16.0	16.6	17.7	14.6	15.2	15.6	16.1	17.3
	4H	15.1	15.6	16.1	16.6	17.8	14.6	15.2	15.6	16.1	17.3
	6H	15.1	15.5	16.1	16.5	17.8	14.6	15.0	15.6	16.0	17.3
	8H	15.1	15.5	16.1	16.5	17.8	14.5	14.9	15.5	15.9	17.2
	12H	15.1	15.4	16.1	16.4	17.7	14.5	14.8	15.5	15.8	17.1
8H	4H	14.9	15.4	15.9	16.3	17.6	14.5	14.9	15.5	15.9	17.2
	6H	15.0	15.3	16.0	16.3	17.6	14.5	14.8	15.5	15.8	17.1
	8H	15.0	15.3	16.1	16.3	17.7	14.4	14.7	15.5	15.8	17.1
	12H	15.0	15.3	16.1	16.3	17.7	14.4	14.6	15.4	15.6	17.0
12H	4H	14.9	15.2	15.9	16.2	17.5	14.4	14.8	15.4	15.8	17.1
	6H	14.9	15.2	15.9	16.2	17.5	14.4	14.7	15.5	15.7	17.1
	8H	15.0	15.2	16.0	16.2	17.6	14.4	14.6	15.4	15.7	17.0
Variations with the observer position at spacings:											
S = 1.0H	+ 0.7 / - 0.9					+ 0.8 / - 1.1					
1.5H	+ 0.6 / - 0.5					+ 0.6 / - 0.5					
2.0H	+ 1.5 / - 1.8					+ 1.8 / - 1.7					

CIE Pub.117, 2226 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 2.8$)
Area: 0.026533 m²

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
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γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
Humidity: 40.3%
Test Distance: 2.500m [K=1.0461]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.1265A P:15.12W PF:0.9963 Freq:60.00Hz Lamp Flux:2226.17x1 lm		
NAME: Optic/CCT/Wattage/Up & Down Light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDVANCE LLC	SUR.:	Shielding Angle:

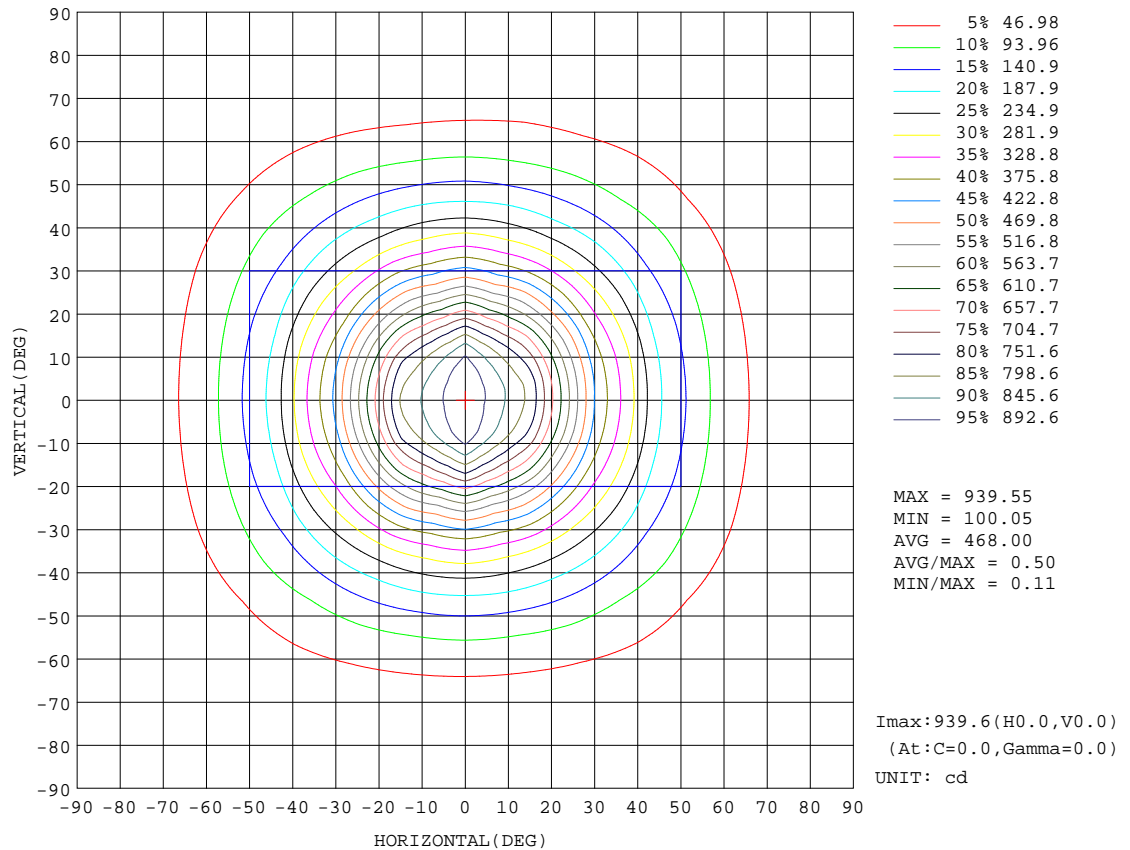
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	51	42	36	49	40	35	44	37	33	26
0.80	60	51	45	57	48	43	51	44	40	30
1.00	67	58	51	63	55	49	56	50	45	34
1.25	74	64	58	69	61	55	60	54	50	37
1.50	78	69	63	73	65	60	63	58	54	38
2.00	84	76	71	78	72	67	68	63	59	41
2.50	88	81	75	82	76	71	70	66	63	42
3.00	91	85	79	84	79	75	72	68	65	43
4.00	95	89	85	88	83	80	74	72	69	44
5.00	97	93	89	90	86	83	76	74	71	45
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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SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDVANCE LLC	SUR.:	Shielding Angle:

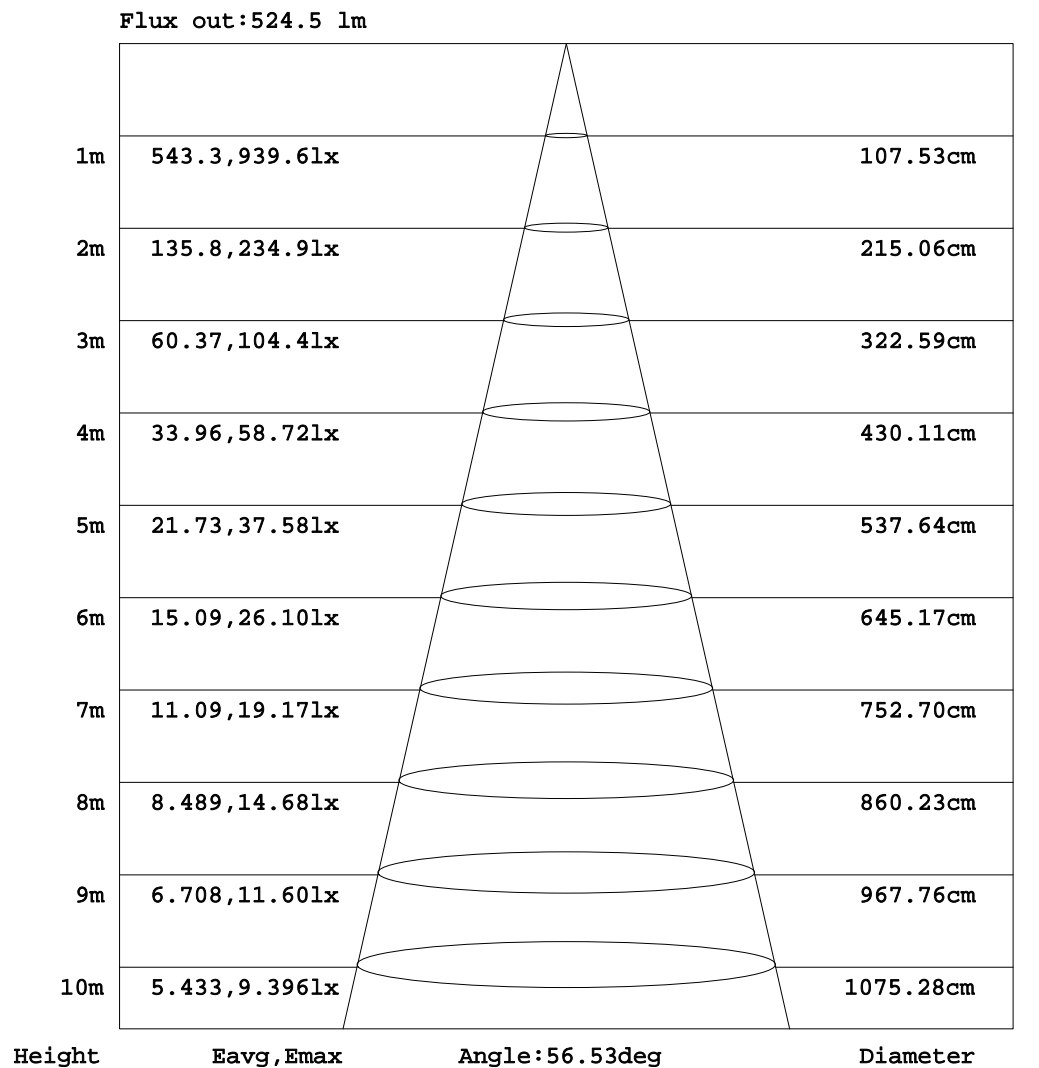


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AAI Figure

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NAME: Optic/CCT/Wattage/Up & Down Light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDVANCE LLC	SUR.:	Shielding Angle:



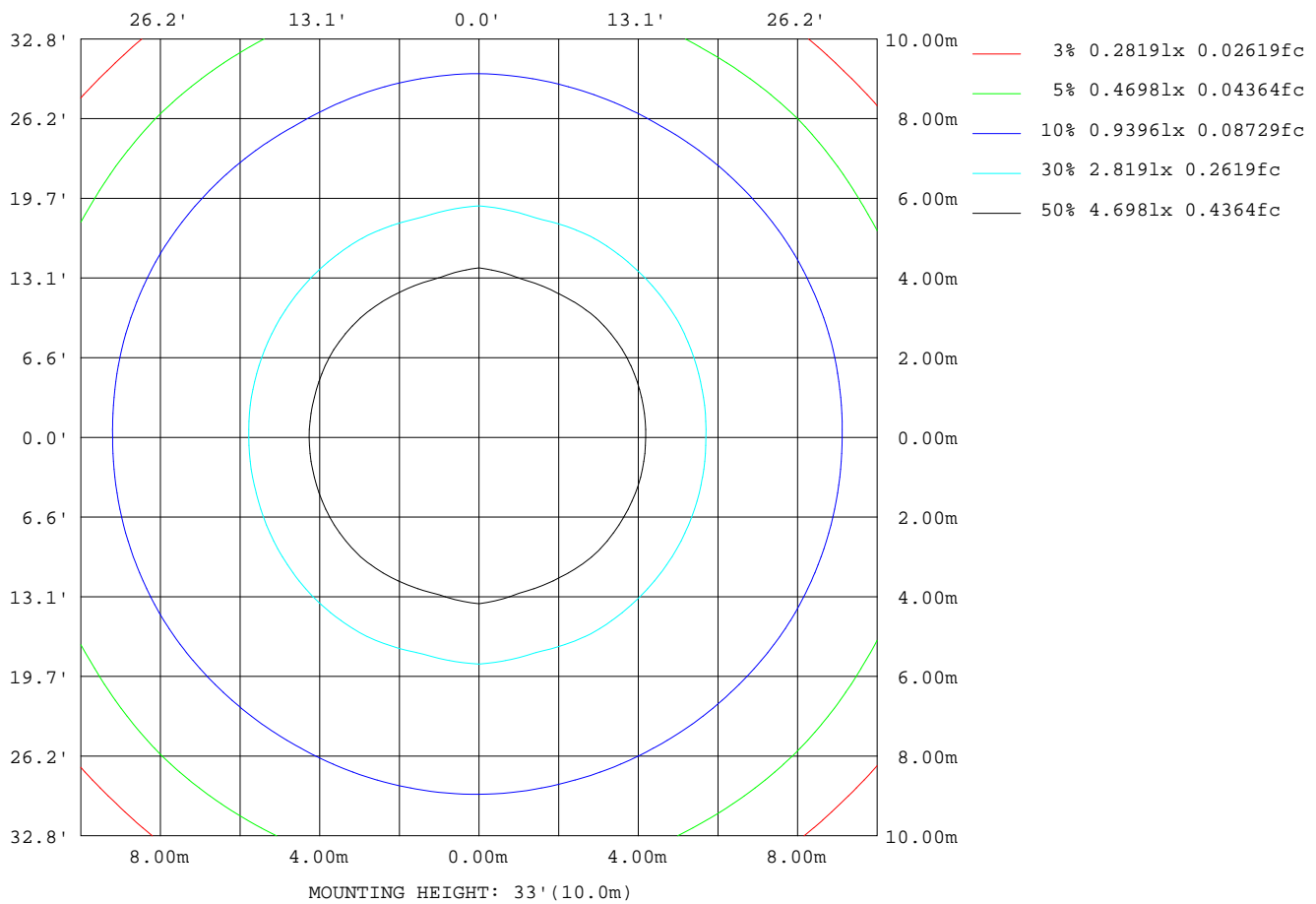
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

Test:U:120.0V I:0.1265A P:15.12W PF:0.9963 Freq:60.00Hz Lamp Flux:2226.17x1 lm		
NAME: Optic/CCT/Wattage/Up & Down Light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDVANCE LLC	SUR.:	Shielding Angle:



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LED Avg.L Report

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NAME: Optic/CCT/Wattage/Up & Down Light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDVANCE LLC	SUR.:	Shielding Angle:

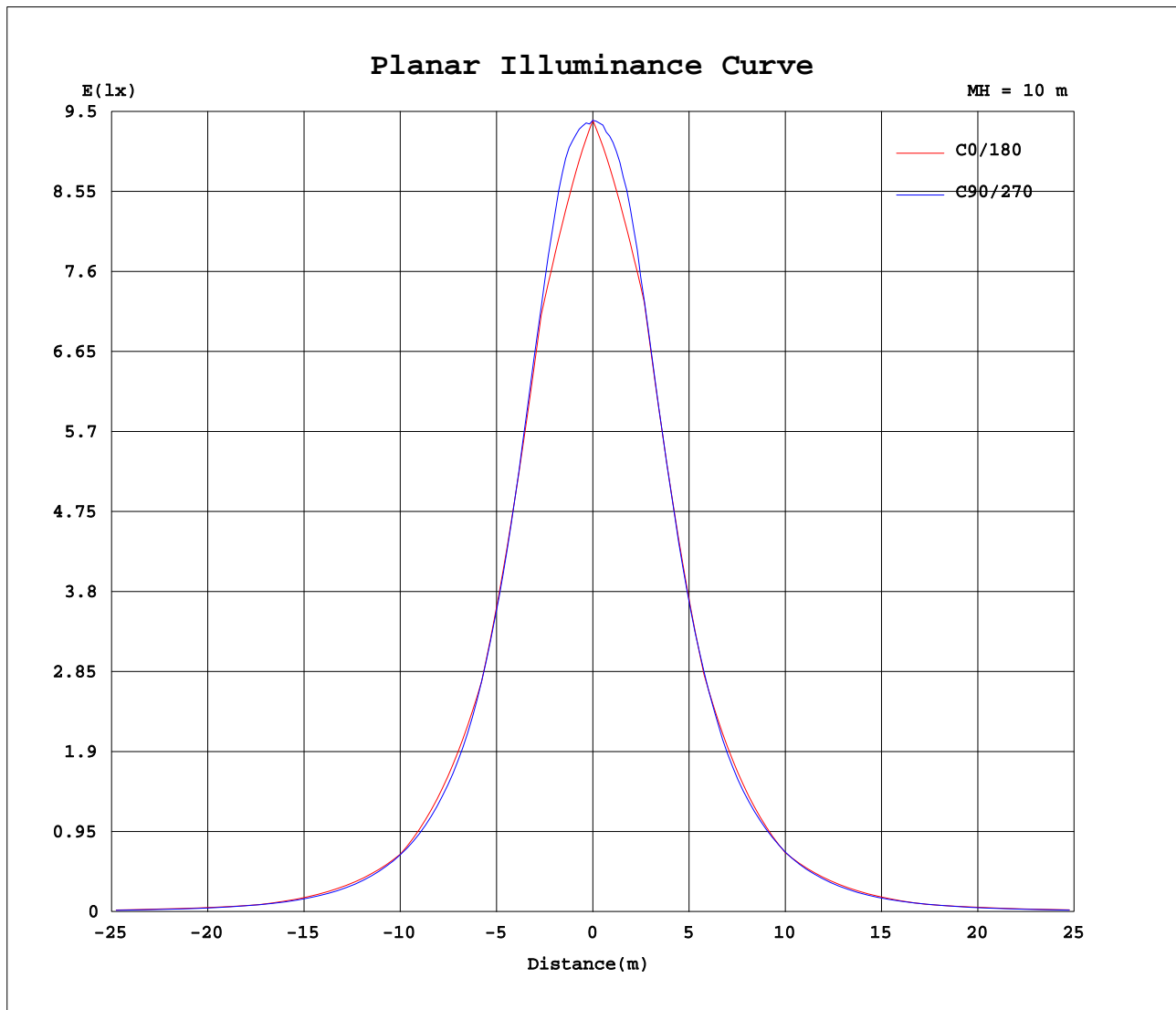
AvgL	cd/m2
L_0~180(65)av	4553
L_0~180(75)av	2287
L_0~180(85)av	2285
L_90~270(65)av	4002
L_90~270(75)av	2314
L_90~270(85)av	423
L_45(65)av	4224
L_45(75)av	2611
L_45(85)av	1759

Standard: GB/T 29293-2012

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Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.1265A P:15.12W PF:0.9963 Freq:60.00Hz Lamp Flux:2226.17x1 lm		
NAME: Optic/CCT/Wattage/Up & Down Light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDVANCE LLC	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940
5	888	887	892	898	908	919	933	921	911	902	897	893	894	895	897	901	908	919	931
10	837	835	837	844	853	869	897	873	860	852	847	847	848	847	845	847	855	871	897
15	786	779	769	755	752	764	797	769	762	771	785	796	803	794	781	771	765	773	805
20	665	663	660	653	639	641	672	647	650	673	679	679	680	678	679	672	653	652	681
25	543	542	536	534	524	514	537	519	538	549	553	554	557	556	556	551	544	530	551
30	421	423	423	421	420	407	421	411	429	434	434	433	434	439	441	440	437	424	439
35	345	340	329	327	324	317	326	321	332	336	336	349	355	354	344	343	342	333	341
40	269	266	260	253	250	248	252	251	254	258	267	274	277	278	274	266	261	261	265
45	193	195	197	194	191	191	191	192	193	198	202	200	198	204	208	205	200	201	200
50	151	148	143	143	142	140	141	141	143	145	145	152	156	155	150	151	150	148	149
55	109	109	107	99.8	101	97.2	98.4	98.0	101	99.8	108	111	113	114	113	106	107	104	104
60	67.3	69.6	72.7	70.5	67.4	65.5	66.3	66.1	68.4	71.3	73.4	71.1	70.2	73.7	77.5	76.5	73.2	69.9	71.2
65	49.9	49.0	45.5	45.8	43.9	43.1	43.2	43.8	44.8	46.6	46.3	50.2	52.2	52.1	49.4	50.0	47.9	45.5	46.5
70	32.5	32.4	30.9	28.3	27.7	26.8	27.1	27.1	28.5	29.1	31.9	33.5	34.2	34.6	33.8	31.2	30.1	27.1	29.2
75	15.2	15.8	16.9	17.0	15.1	15.0	15.3	15.8	16.1	17.9	18.0	16.9	16.2	17.2	18.7	19.1	16.6	14.0	16.4
80	10.1	9.79	8.87	7.44	7.10	7.07	7.31	7.54	7.85	8.40	9.77	10.6	10.8	10.7	9.96	8.71	7.92	5.35	8.07
85	5.11	4.93	4.46	3.71	2.34	1.14	0.55	1.22	2.69	4.19	4.91	5.31	5.45	5.39	4.99	4.34	2.64	0.67	1.41
90	0.08	0.08	0.09	0.13	0.16	0.17	0.17	0.16	0.14	0.11	0.08	0.07	0.07	0.07	0.07	0.08	0.11	0.14	0.07
95	6.06	6.10	5.74	4.98	3.34	1.58	1.66	1.88	3.63	4.94	5.71	6.10	6.22	6.06	5.63	4.75	3.11	1.38	0.54
100	12.0	12.1	11.4	9.95	9.59	9.35	9.70	9.70	9.97	9.90	11.4	12.1	12.4	12.1	11.2	9.58	8.95	8.57	8.26
105	18.0	19.4	21.2	21.4	19.7	19.6	20.2	19.9	20.0	21.8	21.4	19.5	18.5	19.3	20.6	20.5	18.3	17.7	17.2
110	38.1	38.1	37.6	34.7	34.7	33.8	34.5	34.6	35.5	35.7	38.5	39.1	38.8	38.1	36.3	33.3	32.5	30.8	30.3
115	58.1	57.1	54.5	55.7	54.5	54.3	54.8	54.6	55.4	57.0	56.3	58.9	59.2	57.2	52.6	53.1	51.0	49.4	48.7
120	78.1	80.5	85.3	84.7	82.6	81.3	83.2	81.5	83.4	86.7	88.1	83.2	79.5	80.7	83.1	81.1	77.3	75.2	74.8
125	125	125	124	118	120	119	120	119	122	121	128	129	127	125	122	114	114	110	110
130	172	171	166	168	168	167	169	167	169	170	170	175	174	171	163	162	159	158	157
135	219	223	230	229	224	227	227	227	223	228	232	228	222	223	224	219	214	214	212
140	303	305	303	295	293	291	297	290	293	295	304	308	307	303	295	287	281	278	278
145	388	388	380	380	380	371	380	371	378	381	382	391	392	384	373	369	364	354	360
150	472	474	477	481	482	467	483	466	482	479	480	477	477	472	467	464	467	449	461
155	575	578	586	589	588	574	593	575	587	588	584	579	575	573	568	573	565	552	571
160	677	682	696	700	680	679	704	678	679	699	688	681	673	672	673	675	659	656	678
165	779	778	771	767	763	768	788	768	760	760	764	773	771	763	752	738	733	739	760
170	798	804	804	807	812	823	839	822	809	803	801	799	793	788	787	787	789	797	811
175	818	822	827	832	837	841	847	841	836	831	824	819	815	810	811	813	817	822	828
180	837	837	837	837	837	837	837	837	837	837	837	837	837	837	837	837	837	837	837

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.1DEG

Operators: Alan Wang

Test Date: 17 October 2024

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416

Humidity: 40.3%

Test Distance: 2.500m [K=1.0461]

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.1265A P:15.12W PF:0.9963 Freq:60.00Hz Lamp Flux:2226.17x1 lm		
NAME: Optic/CCT/Wattage/Up & Down Light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDVANCE LLC	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345													
0	940	940	940	940	940													
5	918	906	899	894	890													
10	870	852	843	839	841													
15	772	764	765	772	787													
20	650	649	669	670	669													
25	530	541	545	550	547													
30	421	434	434	436	428													
35	332	337	340	338	346													
40	258	260	261	267	271													
45	199	196	200	202	198													
50	145	145	147	145	150													
55	103	103	101	108	110													
60	70.2	70.1	72.2	73.5	69.5													
65	47.8	46.0	47.0	46.2	48.9													
70	31.3	29.7	29.0	31.6	32.4													
75	19.4	17.0	17.7	17.6	16.1													
80	11.1	8.65	8.05	9.39	10.0													
85	4.38	3.26	4.02	4.71	5.06													
90	0.13	0.10	0.08	0.07	0.07													
95	1.21	2.60	4.24	5.15	5.79													
100	7.83	8.02	8.53	10.3	11.5													
105	16.8	17.1	19.4	19.6	18.6													
110	29.7	31.1	32.4	35.6	37.6													
115	48.3	49.6	52.4	52.4	56.7													
120	73.1	75.7	79.8	82.3	80.2													
125	109	111	112	120	124													
130	155	157	159	161	169													
135	209	209	215	220	220													
140	272	273	276	289	298													
145	348	357	358	361	379													
150	444	457	457	456	463													
155	548	559	565	563	566													
160	655	655	672	673	669													
165	738	732	740	753	765													
170	797	789	788	787	790													
175	822	817	814	812	813													
180	837	837	837	837	837													

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.1DEG

Operators: Alan Wang

Test Date: 17 October 2024

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416

Humidity: 40.3%

Test Distance: 2.500m [K=1.0461]

Remarks: