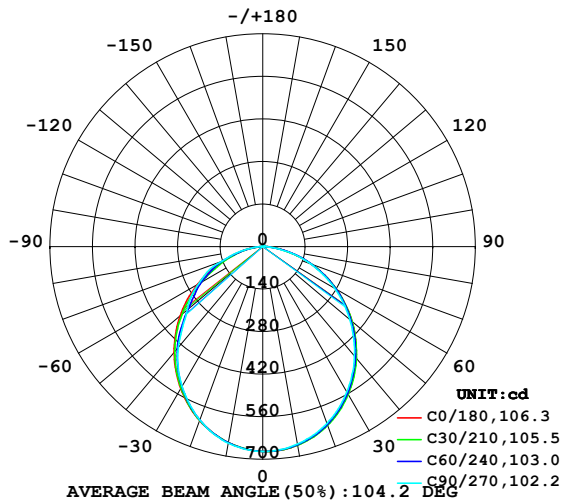


LUMINAIRE PHOTOMETRIC TEST REPORT

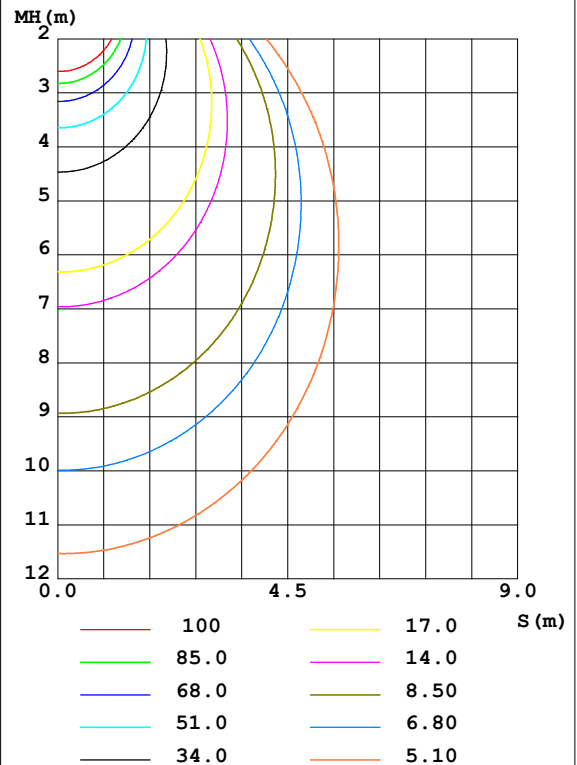
Test:U:220.19V I:0.1727A P:37.508W PF:0.9866 Freq:49.99Hz Lamp Flux:1781.37x1 lm		
NAME: HCP-642130	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Commercial	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 47.49 lm/W
MODEL		I _{max} (cd)	674.4	S/MH (C0/180)	1.20	
NOMINAL POWER (W)	40	LOR (%)	100.0	S/MH (C90/270)	1.18	
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	1781.4	η UP,DN (C0-180)	0.6,51.0	
NOMINAL FLUX (lm)	1781.37	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.6,47.7	
LAMPS INSIDE	1	η up (%)	1.2	CIBSE SHR NOM	1.25	
TEST VOLTAGE (V)	220.0	η down (%)	98.8	CIBSE SHR MAX	1.35	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2019-08-05

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.407.13
Humidity: 65.0%
Test Distance: 10.730m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

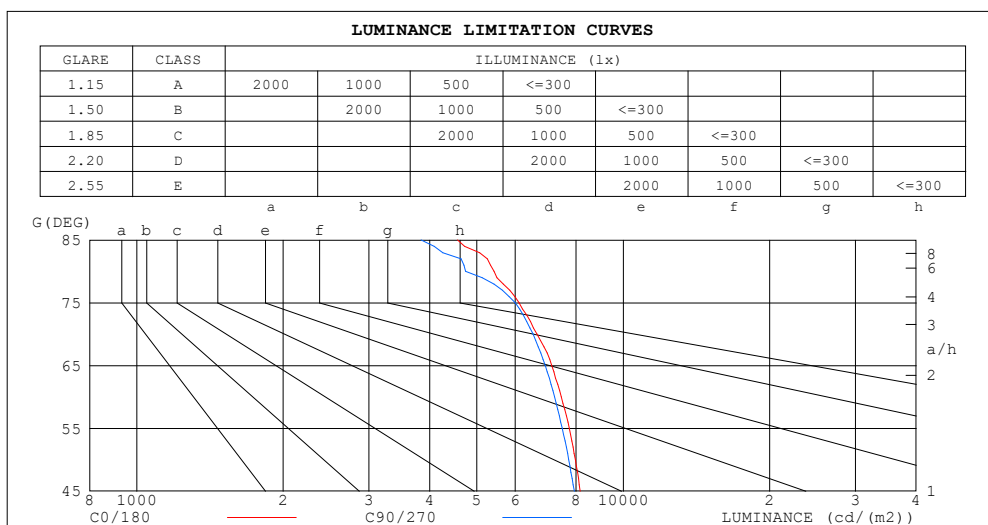
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	663.4	662.9	659.8	656.1	654.8	654.8	656.4	659.5	0- 10	63.58	63.58	3.57,3.57
20	623.7	624.5	618.7	611.0	608.8	607.7	607.0	614.6	10- 20	180.4	244.0	13.7,13.7
30	559.5	560.3	553.4	543.4	540.0	535.3	531.3	545.3	20- 30	268.4	512.4	28.8,28.8
40	477.5	477.6	469.8	459.2	453.8	444.0	433.3	457.6	30- 40	315.6	827.9	46.5,46.5
50	383.8	382.2	374.8	364.1	355.6	334.2	324.5	351.3	40- 50	316.0	1144	64.2,64.2
60	279.5	279.1	272.9	261.0	246.9	232.7	242.5	252.1	50- 60	275.8	1420	79.7,79.7
70	170.3	172.8	168.5	150.8	139.9	135.6	144.2	153.4	60- 70	203.4	1623	91.1,91.1
80	70.60	67.42	62.19	52.89	52.14	48.59	54.44	58.97	70- 80	109.7	1733	97.3,97.3
90	3.370	3.188	2.223	1.616	1.548	1.281	1.047	2.135	80- 90	26.57	1759	98.8,98.8
100	1.621	1.781	1.925	1.916	2.110	2.072	1.843	2.009	90-100	1.761	1761	98.9,98.9
110	2.269	2.393	2.596	2.507	2.656	2.997	2.890	2.839	100-110	2.448	1764	99,99
120	2.991	3.159	3.356	3.252	3.458	3.871	3.840	3.726	110-120	3.043	1767	99.2,99.2
130	3.754	3.860	4.091	3.977	4.212	4.314	4.100	4.297	120-130	3.420	1770	99.4,99.4
140	4.476	4.544	4.738	4.646	4.863	4.782	4.810	4.864	130-140	3.409	1773	99.6,99.6
150	5.086	5.136	5.320	5.225	5.472	5.249	5.254	5.411	140-150	3.133	1777	99.7,99.7
160	5.552	5.612	5.757	5.686	5.809	5.705	5.618	5.881	150-160	2.532	1779	99.9,99.9
170	5.800	5.962	6.039	6.059	6.024	6.007	5.982	6.160	160-170	1.658	1781	100,100
180	6.089	6.123	6.152	6.302	6.081	6.119	6.177	6.282	170-180	0.5816	1781	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2019-08-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.407.13
 Humidity:65.0%
 Test Distance:10.730m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.19V I:0.1727A P:37.508W PF:0.9866 Freq:49.99Hz Lamp Flux:1781.37x1 lm		
NAME: HCP-642130	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Commercial	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4563	3841
80	5427	4744
75	6102	5992
70	6646	6525
65	7132	6913
60	7461	7229
55	7745	7492
50	7969	7724
45	8160	7932

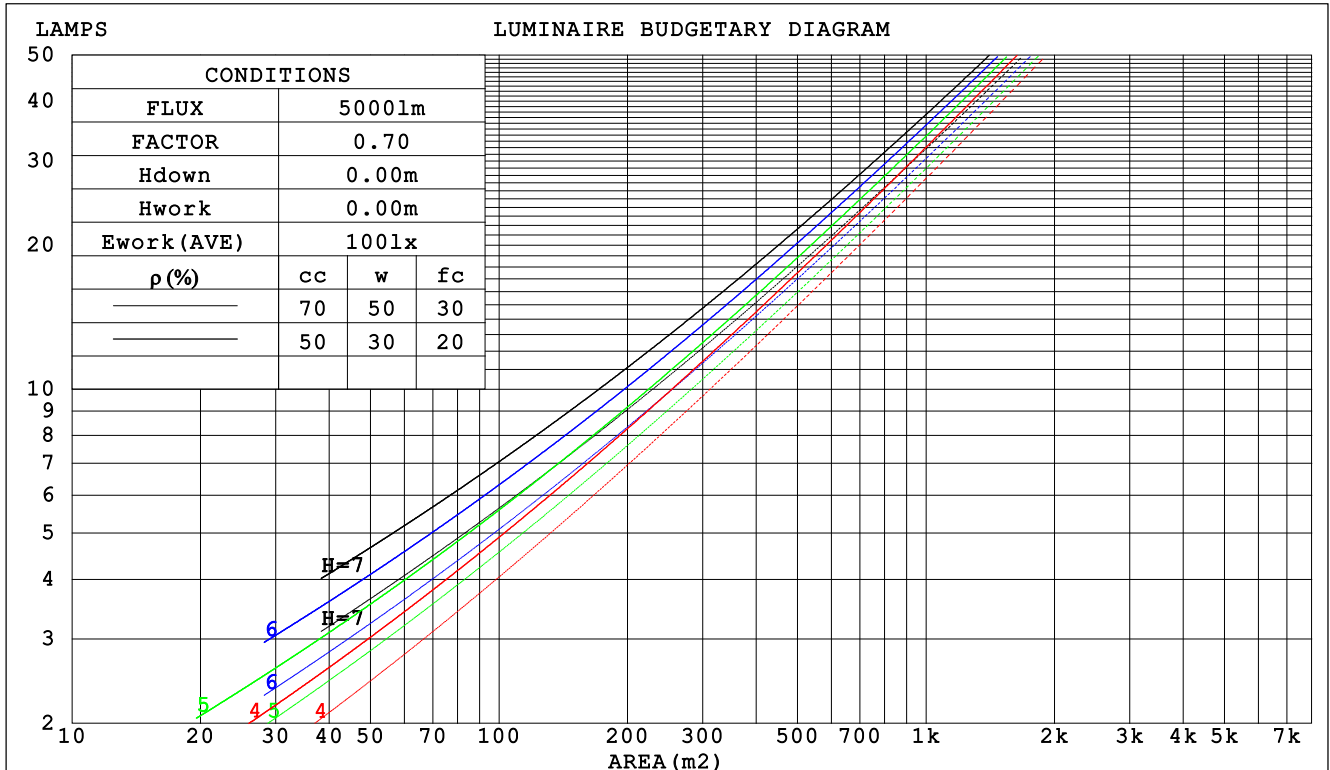
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2019-08-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.407.13
 Humidity:65.0%
 Test Distance:10.730m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.19V I:0.1727A P:37.508W PF:0.9866 Freq:49.99Hz Lamp Flux:1781.37x1 lm																
NAME: HCP-642130							TYPE:					WEIGHT:				
SPEC.:							DIM.:					SERIAL No.:				
MFR.: Havit Commercial							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			Coefficients of Utilization(CU)												
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	.99
1.0	1.04	1.00	.96	1.02	.98	.95	.97	.94	.91	.93	.91	.88	.89	.87	.86	.83
2.0	.91	.84	.79	.89	.83	.78	.85	.80	.76	.82	.78	.74	.79	.75	.72	.70
3.0	.80	.72	.66	.79	.71	.65	.75	.69	.64	.73	.67	.63	.70	.65	.61	.59
4.0	.71	.63	.56	.70	.62	.56	.67	.60	.55	.65	.59	.54	.62	.57	.53	.51
5.0	.64	.55	.48	.63	.54	.48	.60	.53	.47	.58	.52	.47	.56	.51	.46	.44
6.0	.58	.49	.42	.57	.48	.42	.55	.47	.42	.53	.46	.41	.51	.45	.41	.39
7.0	.52	.44	.38	.51	.43	.37	.50	.42	.37	.48	.42	.37	.47	.41	.36	.34
8.0	.48	.39	.34	.47	.39	.33	.46	.38	.33	.44	.38	.33	.43	.37	.33	.31
9.0	.44	.36	.30	.43	.35	.30	.42	.35	.30	.41	.34	.30	.40	.34	.29	.28
10.0	.40	.33	.27	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.27	.25



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2019-08-05

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.407.13
Humidity:65.0%
Test Distance:10.730m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:220.19V I:0.1727A P:37.508W PF:0.9866 Freq:49.99Hz Lamp Flux:1781.37x1 lm		
NAME: HCP-642130	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Commercial	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	.298	.169	.054	.291	.166	.053	.277	.159	.051	.264	.152	.049	.252	.146	.047		
2.0	.282	.155	.047	.276	.152	.047	.263	.147	.046	.252	.141	.044	.242	.137	.043		
3.0	.262	.140	.042	.257	.137	.041	.246	.133	.040	.236	.129	.040	.226	.125	.039		
4.0	.243	.126	.037	.238	.124	.037	.228	.121	.036	.219	.118	.036	.211	.115	.035		
5.0	.225	.115	.033	.221	.113	.033	.212	.110	.033	.204	.108	.032	.197	.105	.032		
6.0	.209	.105	.030	.205	.104	.030	.198	.101	.029	.190	.099	.029	.184	.097	.029		
7.0	.195	.096	.027	.191	.095	.027	.185	.093	.027	.178	.091	.027	.172	.089	.026		
8.0	.182	.089	.025	.179	.088	.025	.173	.086	.025	.167	.085	.024	.162	.083	.024		
9.0	.171	.083	.023	.168	.082	.023	.163	.080	.023	.158	.079	.023	.153	.077	.022		
10.0	.161	.077	.021	.159	.077	.021	.154	.075	.021	.149	.074	.021	.144	.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	.200	.200	.200	.171	.171	.171	.117	.117	.117	.067	.067	.067	.021	.021	.021	
1.0	.189	.166	.145	.162	.142	.125	.111	.098	.086	.064	.057	.050	.020	.018	.016	
2.0	.181	.142	.109	.155	.122	.094	.106	.084	.066	.061	.049	.038	.020	.016	.013	
3.0	.173	.124	.085	.148	.107	.074	.102	.074	.052	.059	.043	.030	.019	.014	.010	
4.0	.165	.110	.069	.142	.095	.060	.097	.067	.042	.056	.039	.025	.018	.013	.008	
5.0	.158	.100	.058	.135	.087	.050	.093	.060	.035	.054	.036	.021	.017	.012	.007	
6.0	.150	.092	.049	.129	.079	.043	.089	.056	.030	.052	.033	.018	.017	.011	.006	
7.0	.144	.085	.043	.124	.073	.038	.085	.052	.027	.050	.030	.016	.016	.010	.005	
8.0	.137	.079	.039	.118	.068	.034	.082	.048	.024	.048	.028	.014	.015	.009	.005	
9.0	.131	.074	.035	.113	.064	.031	.078	.045	.022	.046	.027	.013	.015	.009	.004	
10.0	.126	.070	.032	.108	.061	.028	.075	.043	.020	.044	.025	.012	.014	.008	.004	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2019-08-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.407.13
 Humidity:65.0%
 Test Distance:10.730m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.19V I:0.1727A P:37.508W PF:0.9866 Freq:49.99Hz Lamp Flux:1781.37x1 lm											
NAME: HCP-642130					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.: Havit Commercial					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	20.1	21.5	20.4	21.8	22.0	20.0	21.4	20.2	21.7	21.9	
	3H	21.5	22.9	21.9	23.2	23.4	21.4	22.8	21.7	23.0	23.3
	4H	22.1	23.4	22.4	23.7	24.0	22.0	23.3	22.3	23.6	23.8
	6H	22.5	23.7	22.8	24.0	24.3	22.4	23.6	22.7	23.9	24.2
	8H	22.6	23.8	23.0	24.1	24.4	22.5	23.6	22.8	23.9	24.3
	12H	22.7	23.8	23.1	24.1	24.5	22.5	23.6	22.9	23.9	24.3
4H	2H	20.7	22.0	21.0	22.2	22.5	20.6	21.9	20.9	22.1	22.4
	3H	22.3	23.4	22.7	23.8	24.1	22.2	23.4	22.6	23.7	24.0
	4H	23.0	24.0	23.4	24.4	24.7	22.9	24.0	23.3	24.3	24.7
	6H	23.5	24.4	23.9	24.8	25.2	23.4	24.3	23.8	24.7	25.1
	8H	23.7	24.5	24.1	24.9	25.3	23.6	24.4	24.0	24.8	25.2
	12H	23.8	24.6	24.2	25.0	25.4	23.6	24.4	24.1	24.8	25.2
8H	4H	23.2	24.1	23.7	24.5	24.9	23.2	24.0	23.6	24.4	24.8
	6H	23.9	24.6	24.3	25.0	25.4	23.8	24.5	24.3	24.9	25.4
	8H	24.1	24.7	24.6	25.2	25.7	24.0	24.6	24.5	25.1	25.6
	12H	24.3	24.8	24.8	25.3	25.8	24.2	24.7	24.7	25.2	25.7
12H	4H	23.2	24.0	23.7	24.4	24.9	23.2	24.0	23.6	24.4	24.8
	6H	23.9	24.5	24.4	25.0	25.4	23.8	24.5	24.3	24.9	25.4
	8H	24.2	24.7	24.7	25.2	25.7	24.1	24.6	24.6	25.1	25.6
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					

CIE Pub.117, 1781 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 2.0)
Area: 0.07536 m2

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2019-08-05

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.407.13
Humidity:65.0%
Test Distance:10.730m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.19V I:0.1727A P:37.508W PF:0.9866 Freq:49.99Hz Lamp Flux:1781.37x1 lm		
NAME: HCP-642130	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Commercial	SUR.:	Shielding Angle:

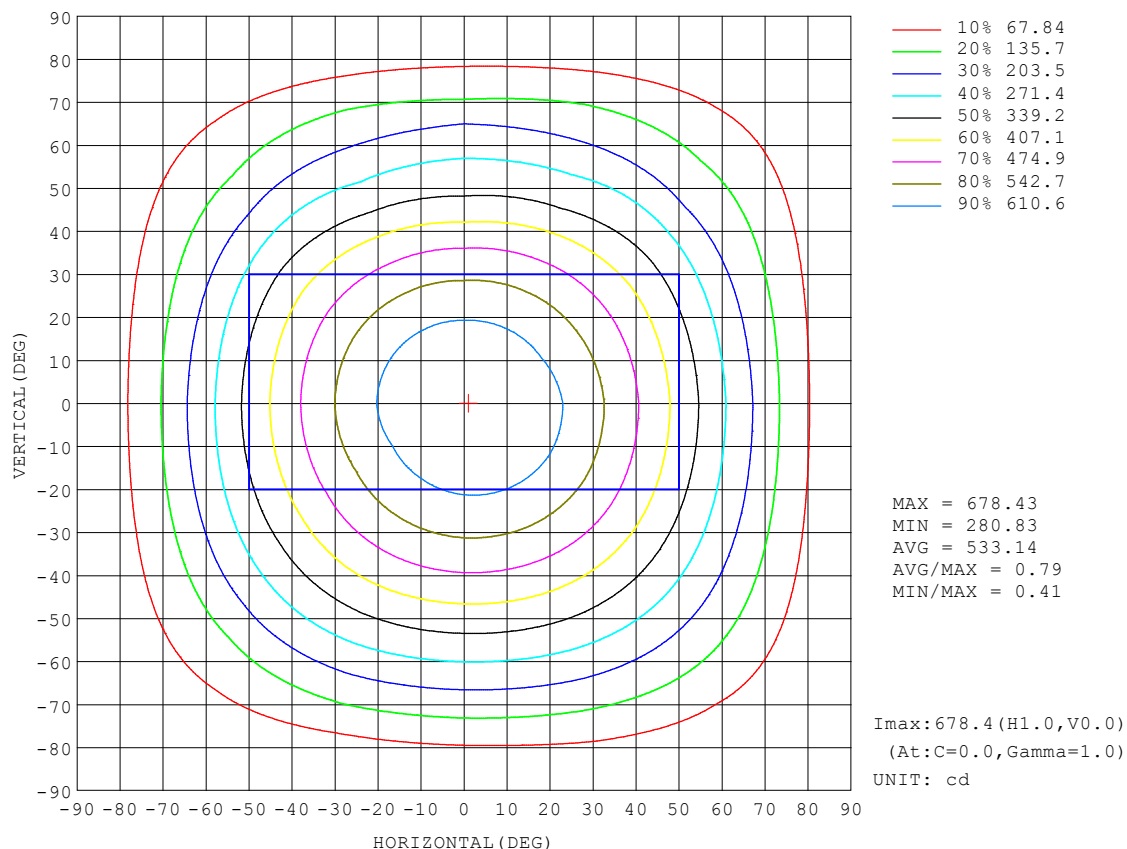
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	47	40	58	47	40	57	46	40	34
0.80	69	57	50	67	57	50	66	56	49	43
1.00	77	66	59	76	65	59	73	67	58	51
1.25	84	74	67	82	73	66	80	71	65	58
1.50	89	79	72	87	78	72	84	76	71	63
2.00	96	87	81	94	86	80	90	84	78	71
2.50	99	92	86	97	90	85	93	88	83	74
3.00	103	96	91	100	94	89	96	91	87	78
4.00	106	101	96	104	99	95	100	96	92	83
5.00	109	104	100	106	102	99	102	98	95	86
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2019-08-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.407.13
 Humidity:65.0%
 Test Distance:10.730m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.19V I:0.1727A P:37.508W PF:0.9866 Freq:49.99Hz Lamp Flux:1781.37x1 lm		
NAME: HCP-642130	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Commercial	SUR.:	Shielding Angle:

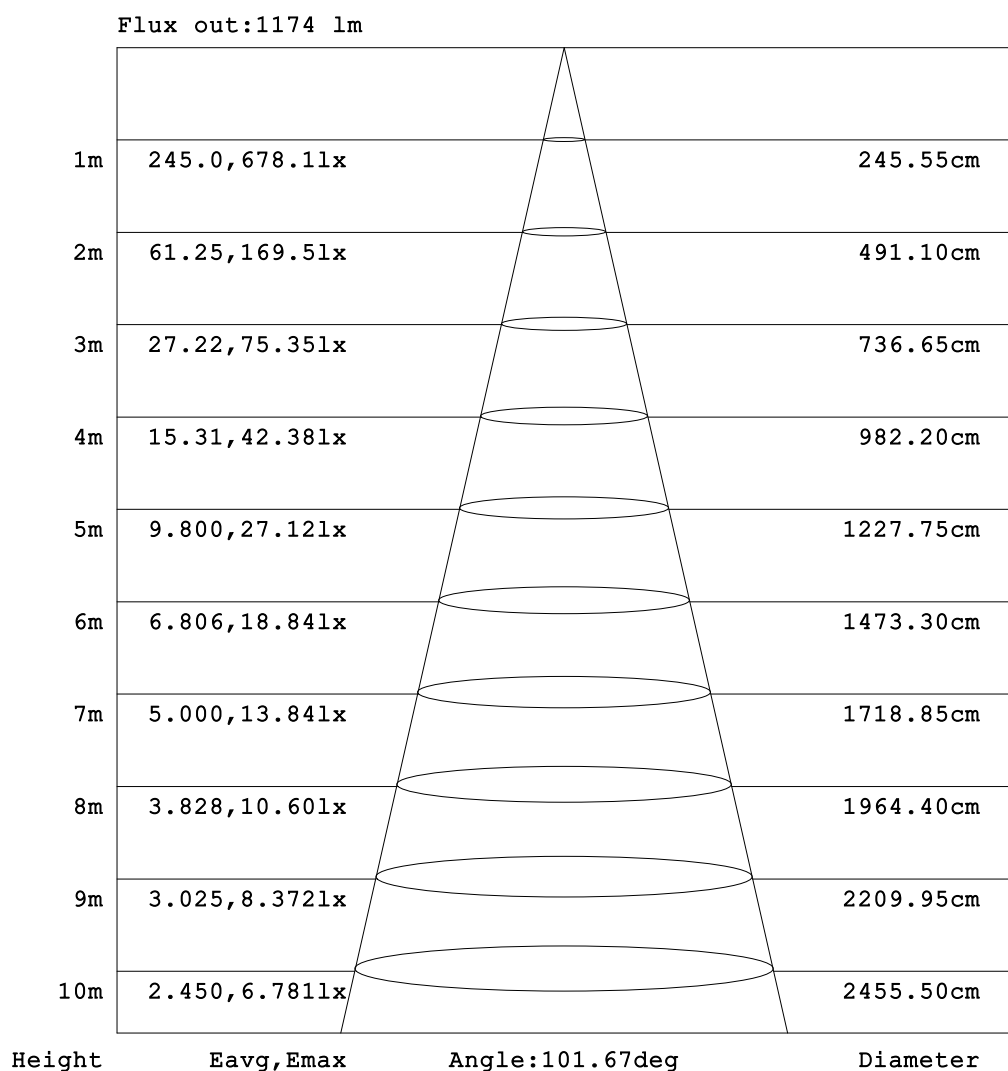


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2019-08-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.407.13
 Humidity: 65.0%
 Test Distance: 10.730m [K=1.0000]
 Remarks:

AAI Figure

Test:U:220.19V I:0.1727A P:37.508W PF:0.9866 Freq:49.99Hz Lamp Flux:1781.37x1 lm		
NAME: HCP-642130	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Commercial	SUR.:	Shielding Angle:



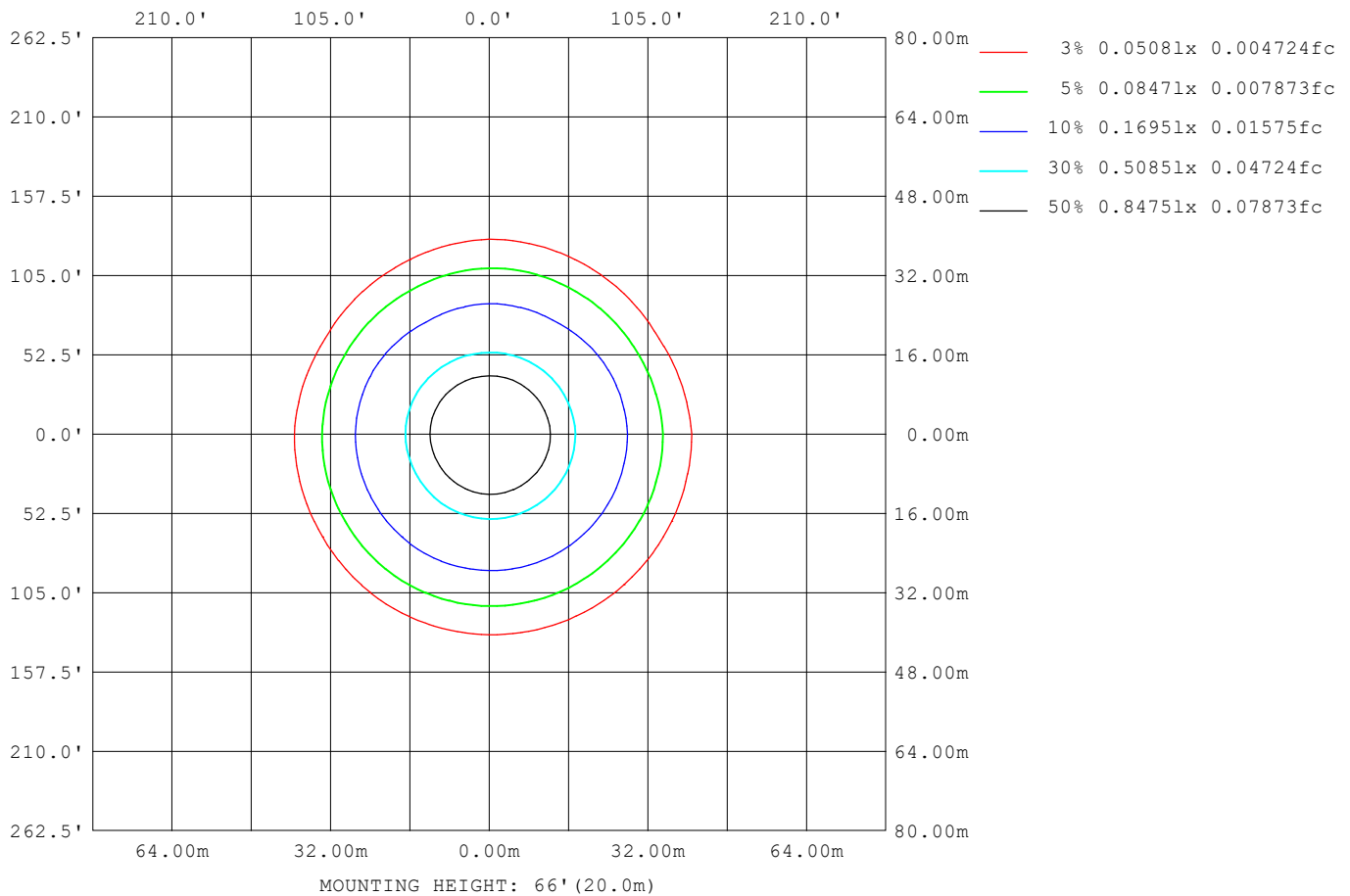
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2019-08-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.407.13
 Humidity:65.0%
 Test Distance:10.730m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:220.19V I:0.1727A P:37.508W PF:0.9866 Freq:49.99Hz Lamp Flux:1781.37x1 lm		
NAME: HCP-642130	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Commercial	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2019-08-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.407.13
 Humidity:65.0%
 Test Distance:10.730m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:220.19V I:0.1727A P:37.508W PF:0.9866 Freq:49.99Hz Lamp Flux:1781.37x1 lm		
NAME: HCP-642130	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Commercial	SUR.:	Shielding Angle:

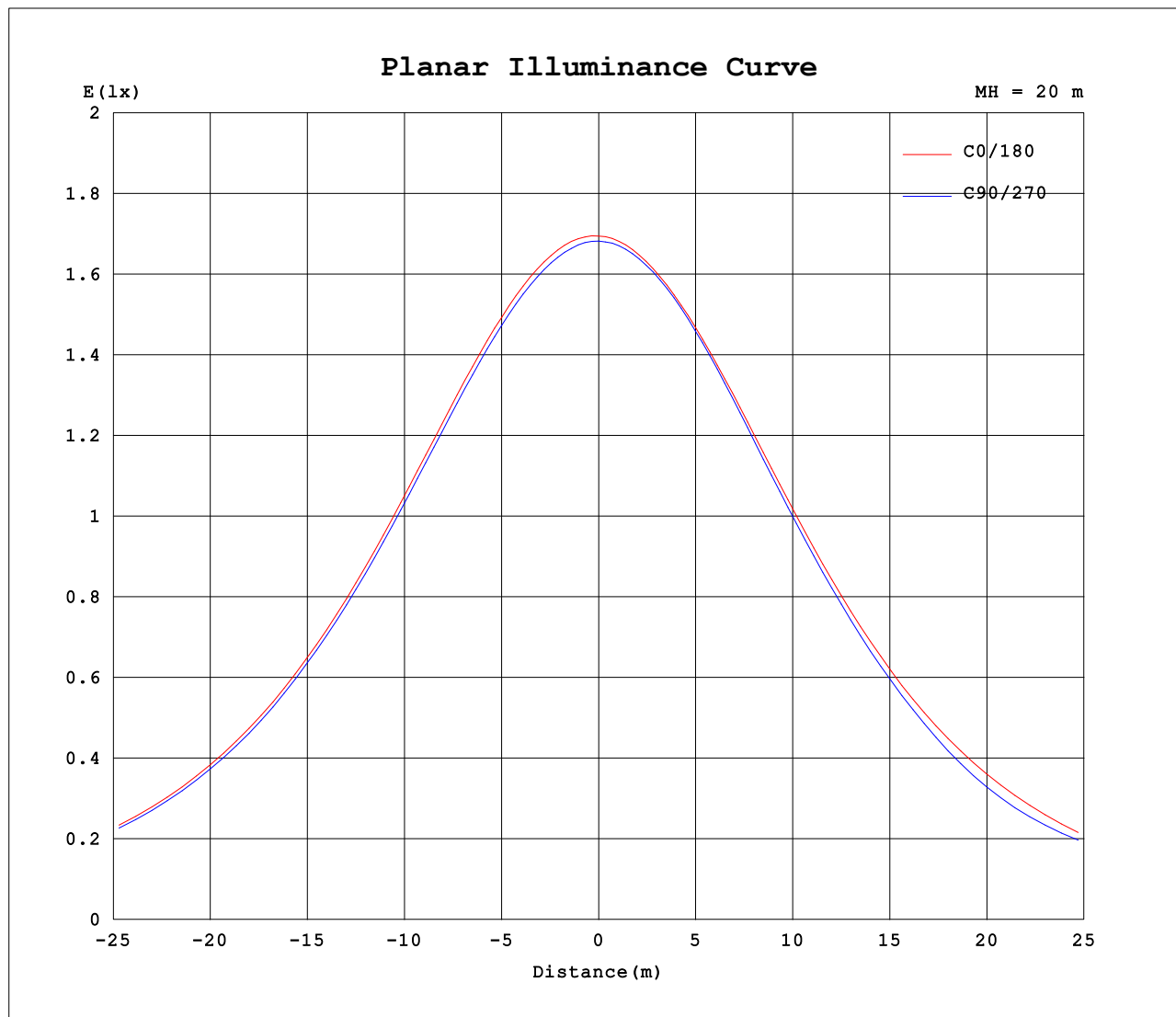
AvgL	cd/m2
L_0~180 (65) av	6613
L_0~180 (75) av	5408
L_0~180 (85) av	3396
L_90~270 (65) av	6657
L_90~270 (75) av	5545
L_90~270 (85) av	3334
L_45 (65) av	6321
L_45 (75) av	5153
L_45 (85) av	3280

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2019-08-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.407.13
 Humidity:65.0%
 Test Distance:10.730m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2019-08-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.407.13
 Humidity: 65.0%
 Test Distance: 10.730m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.19V I:0.1727A P:37.508W PF:0.9866 Freq:49.99Hz Lamp Flux:1781.37x1 lm		
NAME: HCP-642130	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Commercial	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	674	674	674	674	674	674	674	674	674	674	674	674						
5	673	672	672	671	669	668	668	668	668	669	670	671						
10	663	664	662	660	657	655	655	655	655	656	658	661						
15	647	648	646	643	638	636	635	635	635	636	638	643						
20	624	626	623	619	613	609	609	608	607	607	611	618						
25	595	597	593	589	582	577	577	576	572	572	578	587						
30	559	562	558	553	546	541	540	538	533	531	540	551						
35	520	523	519	514	506	500	499	496	487	486	497	511						
40	478	480	475	470	463	455	454	450	438	433	448	467						
45	432	433	429	423	417	409	406	401	381	373	394	419						
50	384	384	380	375	369	360	356	347	321	325	334	368						
55	333	333	330	324	319	308	302	290	274	288	287	315						
60	279	280	278	273	267	255	247	233	232	243	247	257						
65	226	226	226	221	214	200	195	175	187	203	198	194						
70	170	172	173	168	161	140	140	128	143	144	157	149						
75	118	119	121	117	106	89.1	92.7	84.1	88.9	99.2	99.3	102						
80	70.6	65.2	69.6	62.2	54.2	51.6	52.1	47.2	50.0	54.4	57.9	60.0						
85	29.8	29.2	27.1	25.3	20.3	16.9	14.8	13.9	16.3	18.5	22.8	26.3						
90	3.37	3.33	3.04	2.22	1.68	1.55	1.55	1.37	1.19	1.05	1.70	2.57						
95	1.30	1.49	1.64	1.74	1.68	1.64	1.69	1.52	1.50	1.20	1.30	1.50						
100	1.62	1.81	1.75	1.92	1.80	2.03	2.11	2.02	2.12	1.84	1.94	2.08						
105	2.01	2.07	2.05	2.23	2.20	2.28	2.43	2.42	2.82	2.54	2.56	2.41						
110	2.27	2.41	2.37	2.60	2.47	2.55	2.66	2.89	3.11	2.89	3.01	2.67						
115	2.62	2.79	2.77	2.99	2.85	2.93	3.07	3.52	3.47	3.22	3.45	3.21						
120	2.99	3.17	3.15	3.36	3.20	3.30	3.46	3.82	3.92	3.84	3.91	3.54						
125	3.41	3.53	3.51	3.73	3.58	3.66	3.88	4.08	4.19	4.51	4.14	3.92						
130	3.75	3.87	3.85	4.09	3.95	4.01	4.21	4.18	4.45	4.10	4.48	4.11						
135	4.12	4.23	4.19	4.41	4.32	4.36	4.54	4.47	4.74	4.38	4.80	4.47						
140	4.48	4.57	4.52	4.74	4.60	4.69	4.86	4.74	4.82	4.81	4.94	4.79						
145	4.81	4.89	4.82	5.05	4.89	4.99	5.17	5.03	5.11	4.92	5.21	5.09						
150	5.09	5.17	5.11	5.32	5.20	5.25	5.47	5.25	5.24	5.25	5.44	5.38						
155	5.36	5.44	5.33	5.54	5.38	5.51	5.63	5.50	5.45	5.36	5.62	5.64						
160	5.55	5.63	5.59	5.76	5.63	5.74	5.81	5.70	5.71	5.62	5.89	5.87						
165	5.74	5.75	5.82	5.94	5.84	5.88	5.93	5.81	5.86	5.82	6.03	5.97						
170	5.80	5.97	5.95	6.04	5.95	6.17	6.02	6.03	5.99	5.98	6.16	6.16						
175	5.97	6.08	6.09	6.14	6.20	6.28	6.07	6.04	6.11	6.13	6.27	6.25						
180	6.09	6.11	6.14	6.15	6.26	6.35	6.08	6.09	6.15	6.18	6.29	6.27						

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