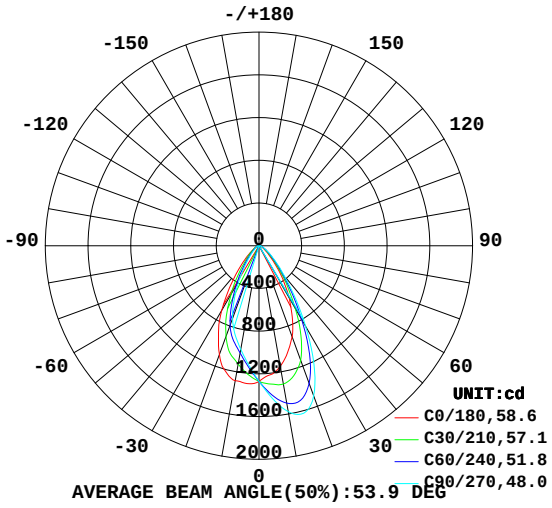
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:23.879V I:0.7247A P:17.304W PF:1.0000 Freq:0Hz Lamp Flux:1430.42x1 lm		
NAME: LED Strip Light	TYPE:LED	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: Havit Commercial	SUR.:1025mm*18mm	Shielding Angle:-

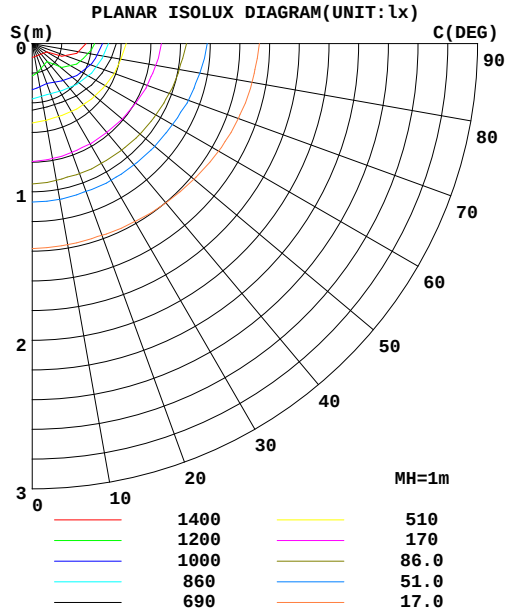
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 82.66 lm/W	
MODEL	HCP-3564184	Imax(cd)	1626	S/MH(C0/180)	0.85
NOMINAL POWER(W)	18	LOR(%)	100.0	S/MH(C90/270)	0.70
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1430.4	η UP,DN(C0-180)	1.2,58.5
NOMINAL FLUX(lm)	1430.42	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.1,39.3
LAMPS INSIDE	1	η up(%)	2.2	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	24	η down(%)	97.8	CIBSE SHR MAX	0.85

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):53.9 DEG

PLANAR ISOLUX DIAGRAM(UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2021-12-27

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [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	1146	1406	1577	1499	1283	1072	984.9	1025	0- 10	120.3	120.3	8.41,8.41
20	907.8	1258	1498	1396	1085	848.1	724.6	774.5	10- 20	331.3	451.6	31.6,31.6
30	570.7	742.4	877.2	870.6	699.4	475.4	371.6	443.5	20- 30	389.3	840.9	58.8,58.8
40	260.7	327.2	374.6	394.1	310.5	201.4	143.1	193.4	30- 40	270.1	1111	77.7,77.7
50	102.1	138.3	159.5	168.5	122.5	91.63	64.35	86.21	40- 50	141.8	1253	87.6,87.6
60	44.44	64.40	70.45	79.30	51.87	46.19	33.16	44.01	50- 60	72.98	1326	92.7,92.7
70	21.29	33.12	32.57	38.39	24.29	26.73	19.04	25.47	60- 70	39.74	1365	95.5,95.5
80	9.046	17.22	15.58	18.48	9.578	15.14	11.23	14.66	70- 80	21.83	1387	97,97
90	0.9545	8.922	7.907	9.388	1.043	7.720	6.070	7.376	80- 90	11.03	1398	97.8,97.8
100	0.2940	7.586	7.384	7.860	0.2201	6.536	5.776	5.912	90-100	6.397	1405	98.2,98.2
110	0.4582	6.263	7.987	6.362	0.3149	5.215	5.971	4.561	100-110	5.568	1410	98.6,98.6
120	1.040	4.489	8.088	4.596	0.7571	3.891	5.784	3.642	110-120	4.380	1415	98.9,98.9
130	2.094	3.510	6.771	3.396	1.602	3.557	5.411	3.807	120-130	3.441	1418	99.1,99.1
140	3.719	3.562	3.671	3.358	2.984	4.709	5.130	5.333	130-140	2.920	1421	99.3,99.3
150	5.516	5.506	3.888	5.228	4.682	7.376	6.867	7.909	140-150	3.100	1424	99.6,99.6
160	6.583	7.433	5.740	7.329	5.966	9.419	8.601	9.281	150-160	3.199	1427	99.8,99.8
170	7.160	8.566	6.967	9.049	6.854	9.619	7.958	9.524	160-170	2.293	1430	99.9,99.9
180	7.979	9.960	8.266	10.47	8.060	9.948	8.247	10.46	170-180	0.8363	1430	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1193.9 lm

%lum = 83.5%
%lamp = 83.5%

Conical surface Flux(120deg): 1325.7 lm

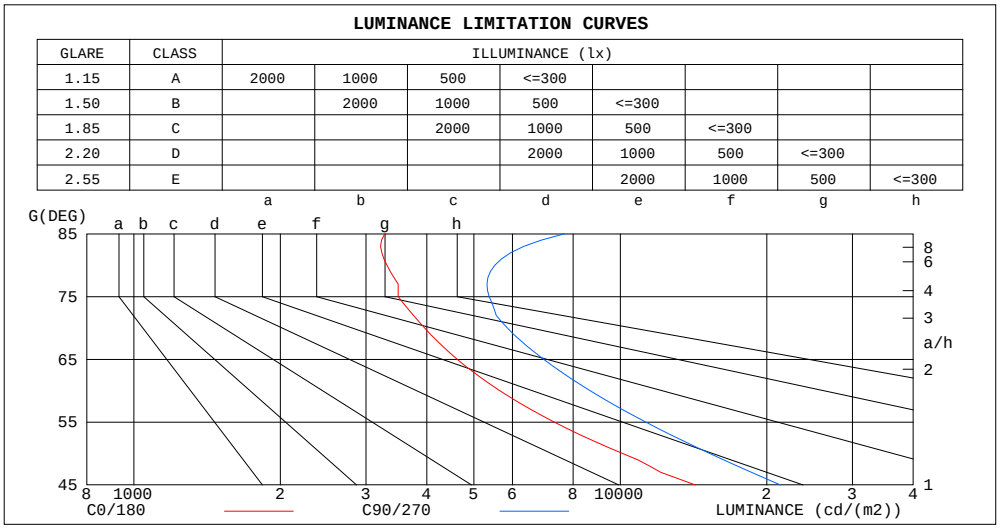
%lum = 92.7%
%lamp = 92.7%

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2021-12-27

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:23.879V I:0.7247A P:17.304W PF:1.0000 Freq:0Hz Lamp Flux:1430.42x1 lm		
NAME: LED Strip Light	TYPE:LED	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: Havit Commercial	SUR.:1025mm*18mm	Shielding Angle:-



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	3279	7672
80	3313	5520
75	3493	5375
70	3959	5859
65	4621	6959
60	5653	8669
55	7315	11283
50	10103	15266
45	14261	21331

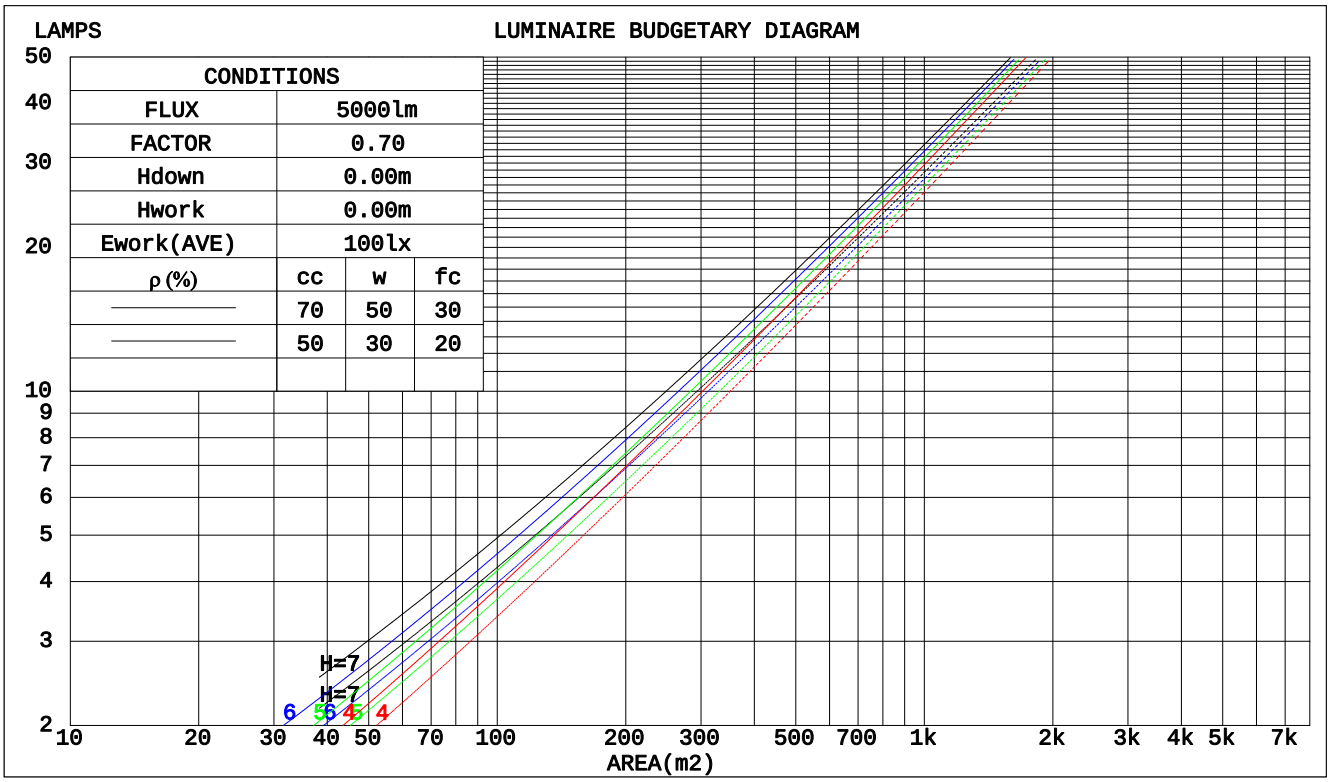
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2021-12-27

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:23.879V I:0.7247A P:17.304W PF:1.0000 Freq:0Hz Lamp Flux:1430.42x1 lm		
NAME: LED Strip Light	TYPE:LED	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: Havit Commercial	SUR.:1025mm*18mm	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	1.15	1.15	1.15	1.10	1.10	1.10	1.05	1.05	1.05	.00	.00	.00	.98
1.0	1.08	1.05	1.03	1.06	1.03	1.01	1.01	.99	.97	.97	.96	.94	.93	.92	.91	.89
2.0	.99	.94	.90	.97	.93	.89	.94	.90	.87	.90	.87	.85	.87	.85	.83	.81
3.0	.91	.85	.81	.90	.84	.80	.87	.82	.78	.84	.80	.77	.81	.78	.75	.74
4.0	.84	.78	.73	.83	.77	.72	.80	.75	.71	.78	.74	.70	.76	.72	.69	.67
5.0	.78	.71	.66	.77	.71	.66	.75	.69	.65	.73	.68	.64	.71	.67	.64	.62
6.0	.73	.66	.61	.72	.65	.61	.70	.64	.60	.68	.63	.59	.67	.62	.59	.57
7.0	.68	.61	.56	.67	.61	.56	.65	.60	.56	.64	.59	.55	.62	.58	.55	.53
8.0	.63	.57	.52	.63	.56	.52	.61	.56	.52	.60	.55	.51	.59	.54	.51	.49
9.0	.59	.53	.49	.59	.53	.48	.58	.52	.48	.57	.51	.48	.56	.51	.48	.46
10.0	.56	.50	.45	.55	.49	.45	.54	.49	.45	.53	.48	.45	.53	.48	.45	.43



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2021-12-27

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:23.879V I:0.7247A P:17.304W PF:1.0000 Freq:0Hz Lamp Flux:1430.42x1 lm		
NAME: LED Strip Light	TYPE:LED	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: Havit Commercial	SUR.:1025mm*18mm	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						Wall Exitance Coeffcients(WEC)									
0.0																
1.0	.213	.121	.038	.206	.117	.037	.192	.110	.035	.179	.103	.033	.167	.097	.031	
2.0	.202	.111	.034	.196	.108	.033	.183	.102	.032	.172	.097	.030	.162	.092	.029	
3.0	.190	.101	.030	.185	.099	.030	.174	.094	.029	.165	.090	.028	.156	.086	.027	
4.0	.179	.093	.027	.174	.091	.027	.165	.088	.026	.157	.084	.025	.149	.081	.025	
5.0	.169	.086	.025	.165	.085	.025	.157	.082	.024	.149	.079	.023	.142	.076	.023	
6.0	.160	.080	.023	.156	.079	.023	.149	.076	.022	.142	.074	.022	.136	.072	.021	
7.0	.152	.075	.021	.148	.074	.021	.142	.072	.021	.136	.070	.020	.130	.068	.020	
8.0	.144	.070	.020	.141	.069	.020	.135	.068	.019	.130	.066	.019	.125	.064	.019	
9.0	.137	.066	.019	.134	.065	.018	.129	.064	.018	.124	.062	.018	.119	.061	.018	
10.0	.131	.063	.017	.128	.062	.017	.123	.060	.017	.119	.059	.017	.115	.058	.017	

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	.208	.208	.208	.177	.177	.177	.121	.121	.121	.070	.070	.070	.022	.022	.022	
1.0	.191	.174	.159	.163	.150	.137	.112	.103	.095	.064	.060	.055	.021	.019	.018	
2.0	.178	.150	.126	.152	.129	.109	.104	.089	.076	.060	.052	.045	.019	.017	.015	
3.0	.167	.131	.103	.143	.113	.089	.098	.079	.063	.057	.046	.037	.018	.015	.012	
4.0	.157	.117	.086	.135	.101	.075	.093	.070	.053	.054	.041	.031	.017	.013	.010	
5.0	.149	.106	.074	.128	.092	.064	.088	.064	.045	.051	.038	.027	.016	.012	.009	
6.0	.142	.097	.065	.122	.084	.056	.084	.059	.040	.049	.035	.024	.016	.011	.008	
7.0	.135	.089	.057	.116	.078	.050	.080	.054	.035	.047	.032	.021	.015	.010	.007	
8.0	.130	.083	.052	.111	.072	.045	.077	.051	.032	.045	.030	.019	.015	.010	.006	
9.0	.124	.078	.047	.107	.068	.041	.074	.048	.029	.043	.028	.017	.014	.009	.006	
10.0	.119	.074	.044	.103	.064	.038	.071	.045	.027	.042	.027	.016	.014	.009	.005	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2021-12-27

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:23.879V I:0.7247A P:17.304W PF:1.0000 Freq:0Hz Lamp Flux:1430.42x1 lm		
NAME: LED Strip Light	TYPE:LED	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: Havit Commercial	SUR.:1025mm*18mm	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	18.0	19.1	18.2	19.3	19.5	19.7	20.7	19.9	20.9	21.2
3H	18.3	19.3	18.6	19.5	19.8	20.0	21.0	20.3	21.2	21.5
4H	18.4	19.3	18.7	19.6	19.9	20.1	21.1	20.5	21.3	21.6
6H	18.5	19.4	18.8	19.7	20.0	20.3	21.2	20.6	21.5	21.8
8H	18.5	19.4	18.9	19.7	20.0	20.4	21.2	20.7	21.5	21.8
12H	18.5	19.4	18.9	19.7	20.0	20.5	21.3	20.9	21.6	21.9
4H 2H	18.1	19.0	18.4	19.3	19.6	19.6	20.5	19.9	20.8	21.1
3H	18.5	19.3	18.9	19.7	20.0	20.1	20.9	20.4	21.2	21.5
4H	18.8	19.5	19.2	19.9	20.2	20.3	21.0	20.7	21.4	21.8
6H	19.0	19.6	19.4	20.0	20.4	20.6	21.2	21.0	21.6	22.0
8H	19.1	19.7	19.5	20.1	20.5	20.7	21.3	21.2	21.7	22.2
12H	19.2	19.7	19.6	20.1	20.6	20.9	21.5	21.4	21.9	22.3
8H 4H	18.9	19.5	19.3	19.9	20.3	20.3	20.9	20.8	21.3	21.7
6H	19.3	19.8	19.7	20.2	20.7	20.7	21.2	21.2	21.6	22.1
8H	19.5	19.9	19.9	20.4	20.8	21.0	21.4	21.5	21.9	22.4
12H	19.6	20.0	20.1	20.5	21.0	21.3	21.7	21.8	22.2	22.7
12H 4H	18.9	19.4	19.3	19.8	20.3	20.3	20.9	20.8	21.3	21.7
6H	19.3	19.8	19.8	20.2	20.7	20.7	21.2	21.2	21.6	22.1
8H	19.6	20.0	20.1	20.4	21.0	21.0	21.4	21.5	21.9	22.4
Variations with the observer position at spacings:										
S = 1.0H	+ 1.1 / - 1.4					+ 1.5 / - 1.2				
1.5H	+ 1.9 / - 1.1					+ 2.5 / - 1.3				
2.0H	+ 1.8 / - 1.1					+ 2.6 / - 1.3				

CIE Pub.117, 1430 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 1.2)
Area: 0.01845 m2

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2021-12-27

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:23.879V I:0.7247A P:17.304W PF:1.0000 Freq:0Hz Lamp Flux:1430.42x1 lm		
NAME: LED Strip Light	TYPE:LED	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: Havit Commercial	SUR.:1025mm*18mm	Shielding Angle:-

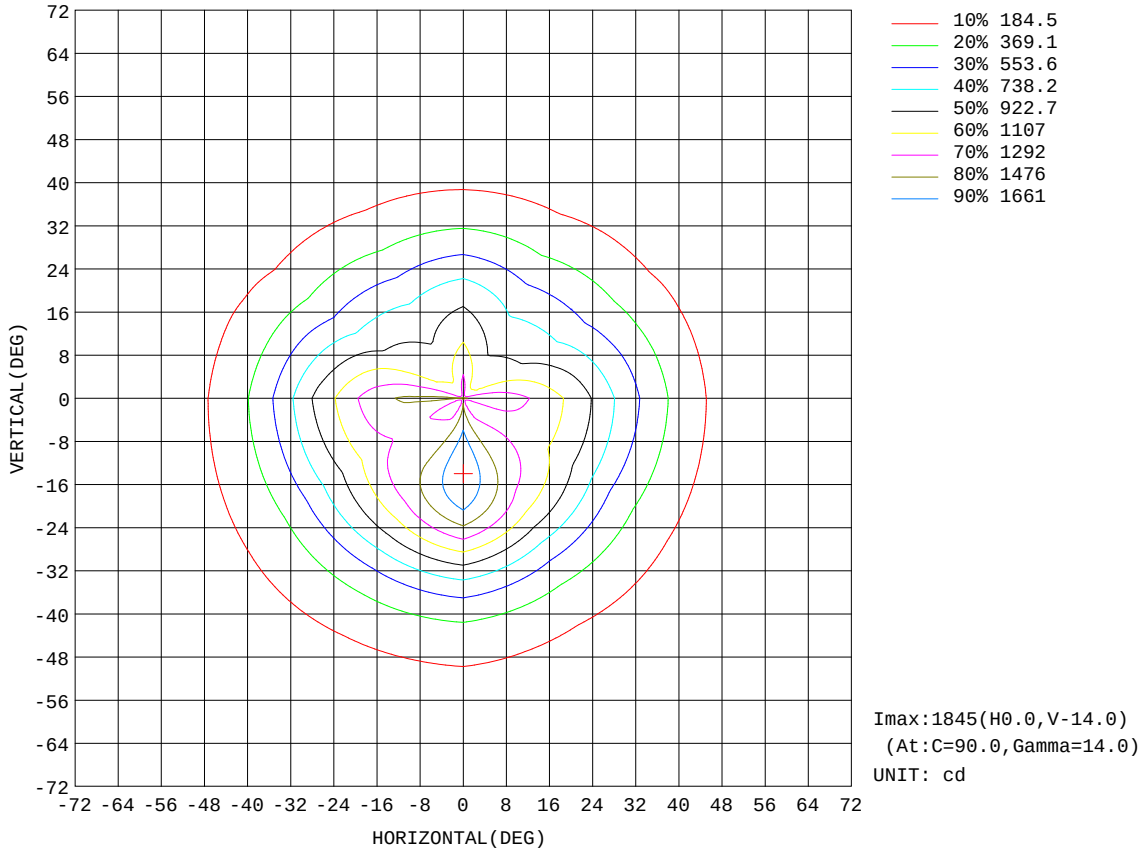
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	78	70	65	77	69	65	76	69	65	60
0.80	86	78	74	85	78	73	84	77	73	68
1.00	92	85	80	91	84	80	89	84	79	74
1.25	97	90	85	95	89	85	93	88	84	79
1.50	100	94	90	99	93	89	96	91	88	82
2.00	104	99	94	102	97	94	99	95	92	86
2.50	106	101	97	104	100	96	101	97	94	87
3.00	108	104	100	106	102	99	102	99	97	89
4.00	111	107	104	109	105	103	104	102	100	92
5.00	112	109	107	110	107	105	106	104	102	93
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:Young
Test Date:2021-12-27

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:23.879V I:0.7247A P:17.304W PF:1.0000 Freq:0Hz Lamp Flux:1430.42x1 lm		
NAME: LED Strip Light	TYPE:LED	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: Havit Commercial	SUR.:1025mm*18mm	Shielding Angle:-



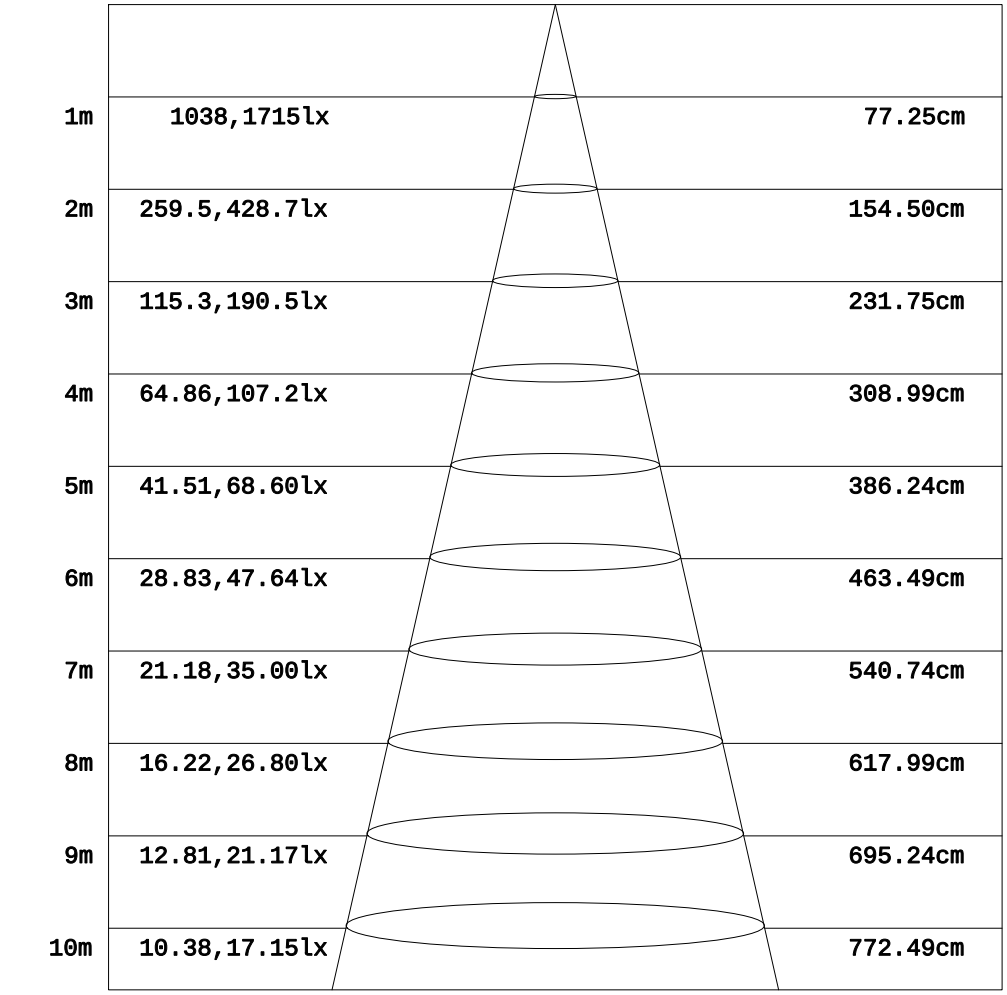
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2021-12-27

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

AAI Figure

Test:U:23.879V I:0.7247A P:17.304W PF:1.0000 Freq:0Hz Lamp Flux:1430.42x1 lm		
NAME: LED Strip Light	TYPE:LED	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: Havit Commercial	SUR.:1025mm*18mm	Shielding Angle:-

Flux out:532.2 lm



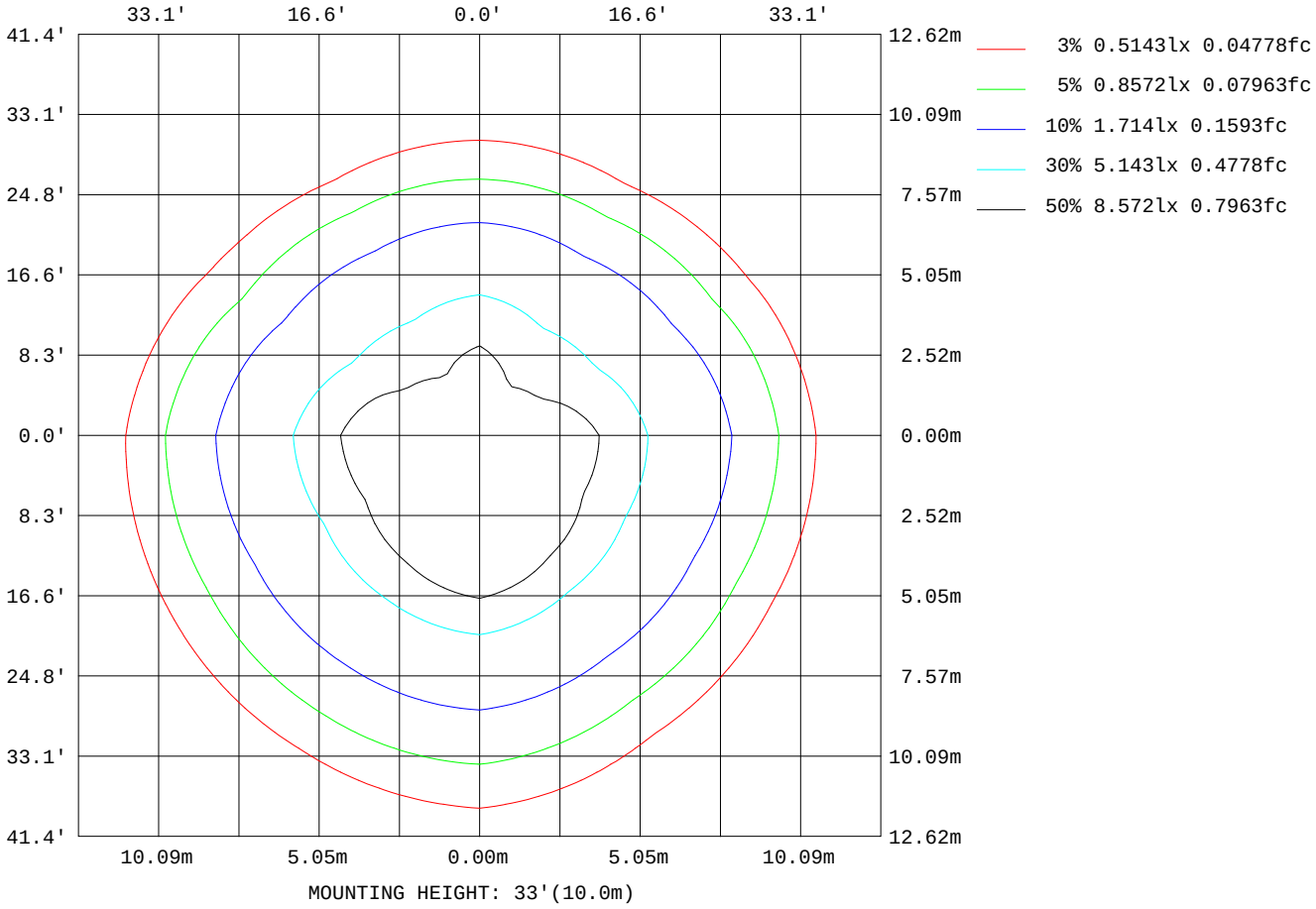
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2021-12-27

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:23.879V I:0.7247A P:17.304W PF:1.0000 Freq:0Hz Lamp Flux:1430.42x1 lm		
NAME: LED Strip Light	TYPE:LED	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: Havit Commercial	SUR.:1025mm*18mm	Shielding Angle:-



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2021-12-27

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:23.879V I:0.7247A P:17.304W PF:1.0000 Freq:0Hz Lamp Flux:1430.42x1 lm		
NAME: LED Strip Light	TYPE:LED	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: Havit Commercial	SUR.:1025mm*18mm	Shielding Angle:-

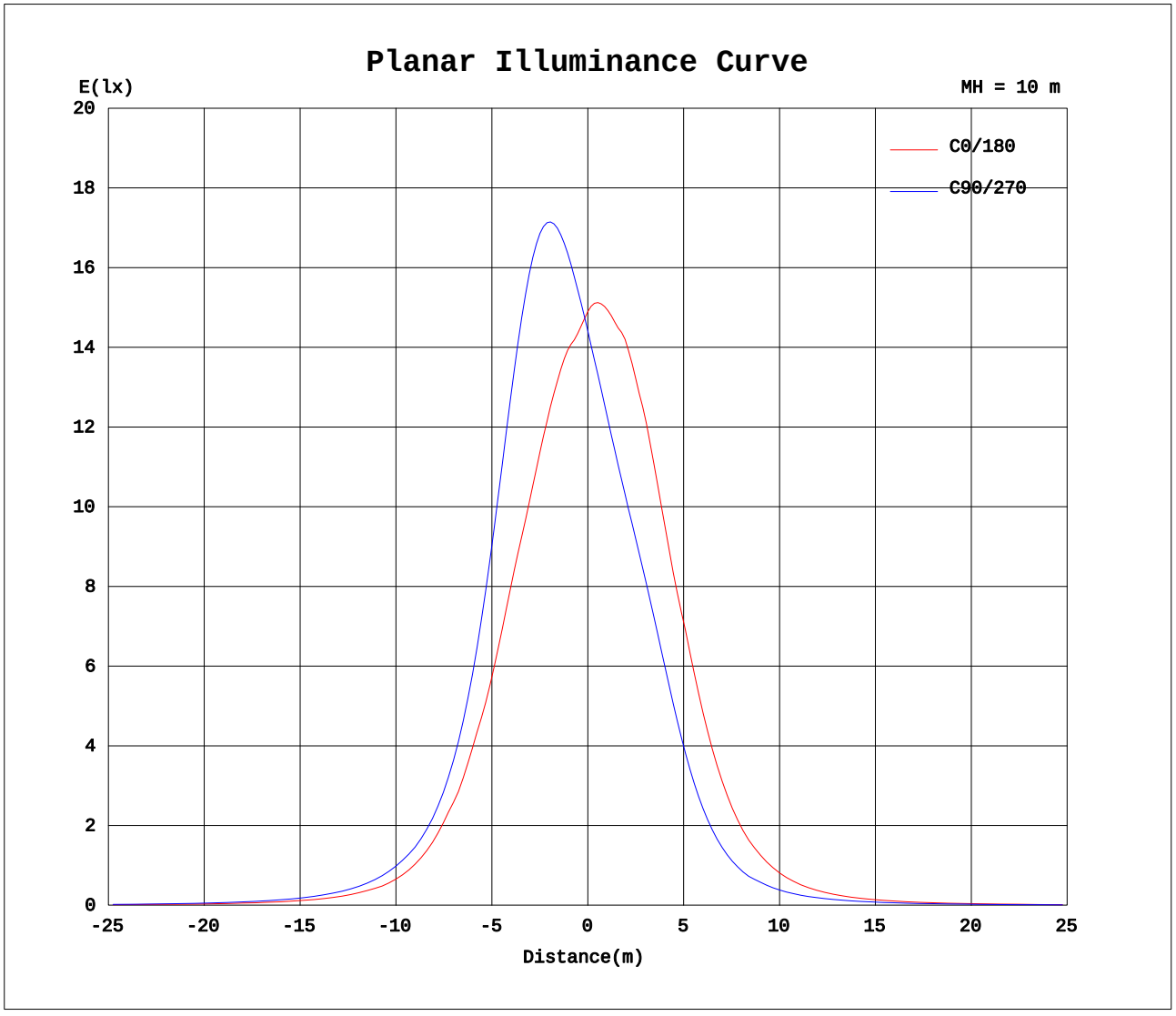
AvgL	cd/m2
L_0~180(65)av	4219
L_0~180(75)av	3169
L_0~180(85)av	2839
L_90~270(65)av	4667
L_90~270(75)av	3875
L_90~270(85)av	5895
L_45(65)av	5626
L_45(75)av	4886
L_45(85)av	7775

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2021-12-27

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2021-12-27

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:23.879V I:0.7247A P:17.304W PF:1.0000 Freq:0Hz Lamp Flux:1430.42x1 lm		
NAME: LED Strip Light	TYPE:LED	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: Havit Commercial	SUR.:1025mm*18mm	Shielding Angle:-

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	30	60	90	120	150	180	210	240	270	300	330
0	1270	1270	1270	1270	1270	1270	1270	1270	1270	1270	1270	1270
5	1213	1300	1402	1433	1426	1364	1295	1208	1140	1120	1120	1159
10	1146	1315	1496	1577	1557	1441	1283	1125	1020	985	984	1066
15	1036	1260	1500	1623	1613	1408	1216	1045	922	864	861	944
20	908	1143	1373	1498	1504	1290	1085	904	792	725	737	812
25	741	929	1122	1217	1236	1060	898	725	608	548	571	649
30	571	683	802	877	923	818	699	523	428	372	402	485
35	400	469	536	583	623	568	484	357	282	233	267	337
40	261	307	347	375	411	377	310	226	177	143	171	215
45	159	199	222	245	270	247	196	156	114	95.7	111	147
50	102	126	150	159	174	163	123	104	79.0	64.4	74.4	98.0
55	66.0	84.7	102	105	124	109	78.5	71.1	55.4	45.3	53.7	67.3
60	44.4	59.0	69.8	70.4	83.7	75.0	51.9	51.3	41.1	33.2	39.6	48.5
65	30.7	42.7	48.9	47.8	58.0	53.3	35.1	38.3	32.0	25.0	31.4	36.1
70	21.3	32.1	34.1	32.6	39.8	37.0	24.3	28.1	25.4	19.0	24.5	26.5
75	14.2	23.5	24.2	22.6	27.3	26.0	16.0	20.5	19.5	14.4	19.1	19.4
80	9.05	16.9	17.6	15.6	19.1	17.9	9.58	15.4	14.9	11.2	14.7	14.6
85	4.49	11.9	12.9	10.9	14.2	12.1	4.63	10.8	10.8	8.09	10.92	10.14
90	0.95	8.19	9.65	7.91	10.63	8.15	1.04	7.40	8.04	6.07	8.11	6.64
95	0.28	6.87	8.89	7.14	9.53	6.68	0.28	6.26	7.41	5.65	7.41	5.29
100	0.29	6.12	9.05	7.38	9.75	5.97	0.22	5.63	7.44	5.78	7.25	4.58
105	0.34	5.09	9.16	7.75	9.84	4.84	0.19	4.67	7.26	5.93	6.97	3.64
110	0.46	3.70	8.81	7.99	9.36	3.37	0.31	3.54	6.89	5.97	6.50	2.62
115	0.70	2.58	8.25	8.13	8.60	2.22	0.50	2.56	6.40	5.94	6.00	2.00
120	1.04	1.88	7.08	8.09	7.60	1.60	0.76	1.99	5.79	5.78	5.52	1.77
125	1.50	1.71	6.07	7.62	6.39	1.50	1.12	1.91	5.14	5.58	5.06	2.05
130	2.09	2.05	4.96	6.77	4.92	1.87	1.60	2.36	4.75	5.41	4.84	2.77
135	2.84	2.77	3.72	5.08	3.65	2.56	2.22	3.24	4.56	5.21	4.94	3.78
140	3.72	3.71	3.41	3.67	3.30	3.42	2.98	4.36	5.06	5.13	5.71	4.96
145	4.65	4.79	4.04	3.26	3.89	4.43	3.84	5.63	6.30	5.70	7.03	6.23
150	5.52	5.90	5.11	3.89	4.95	5.51	4.68	6.93	7.83	6.87	8.44	7.38
155	6.19	6.88	6.24	4.84	6.09	6.55	5.42	8.03	9.21	7.99	9.45	8.23
160	6.58	7.64	7.22	5.74	7.17	7.49	5.97	8.73	10.11	8.60	9.84	8.72
165	6.85	8.17	7.97	6.46	8.11	8.35	6.37	9.10	10.33	8.48	9.75	9.03
170	7.16	8.62	8.51	6.97	8.98	9.12	6.85	9.33	9.91	7.96	9.58	9.47
175	7.63	9.32	9.22	7.68	9.77	9.92	7.47	9.69	9.64	7.98	10.01	10.11
180	7.98	10.08	9.84	8.27	10.42	10.52	8.06	10.02	9.88	8.25	10.41	10.52

C Range: 0 - 360DEG
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