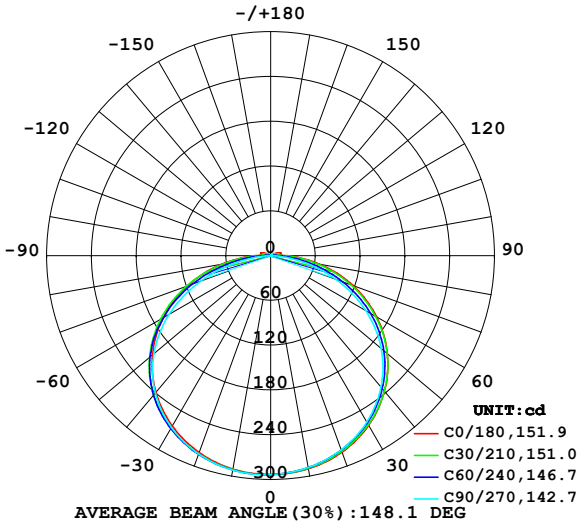
LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: HCP-3456250-RGBW	TYPE: 2835+2216	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

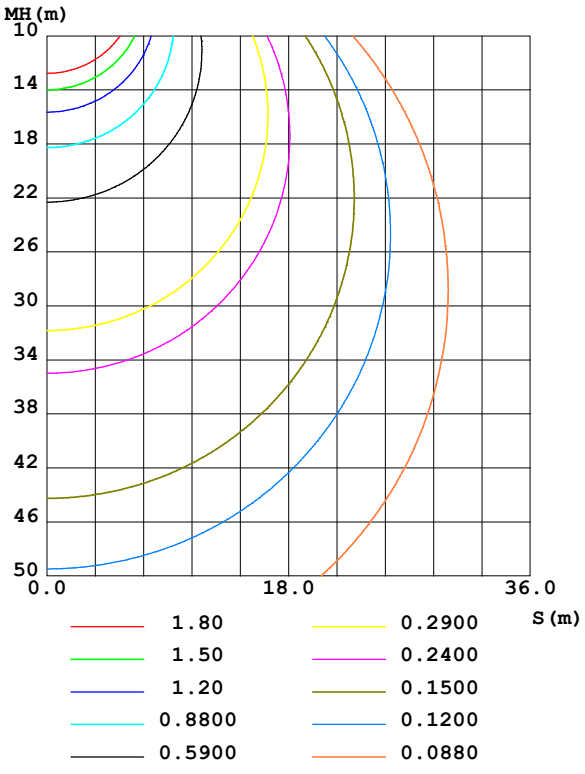
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 48.17 lm/W	
MODEL	HCP-3456250	Imax(cd)	293.6	S/MH(C0/180)	1.34
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	1.35
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1005.7	η UP,DN(C0-180)	1.0,48.3
NOMINAL FLUX(lm)	1005.66	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.0,49.7
LAMPS INSIDE	1	η up(%)	2.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	24	η down(%)	98.0	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(30%):148.1 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [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	290.0	288.8	288.4	289.0	290.4	291.4	291.7	291.2	0- 10	27.84	27.84	2.77,2.77
20	280.0	278.0	276.9	278.2	280.6	282.8	282.7	282.2	10- 20	80.85	108.7	10.8,10.8
30	262.6	260.3	257.7	260.9	263.5	267.3	265.9	265.7	20- 30	125.8	234.5	23.3,23.3
40	237.1	234.7	230.0	236.1	239.1	244.1	240.4	241.5	30- 40	157.6	392.1	39,39
50	204.1	200.9	193.6	203.1	206.8	211.4	204.3	208.4	40- 50	171.8	563.9	56.1,56.1
60	164.0	158.4	147.2	160.6	165.7	168.0	156.9	164.5	50- 60	164.6	728.5	72.4,72.4
70	117.5	108.6	92.96	110.3	118.7	115.8	99.40	112.2	60- 70	135.0	863.5	85.9,85.9
80	66.96	56.29	36.22	56.27	66.75	58.66	37.64	56.84	70- 80	87.26	950.8	94.5,94.5
90	20.34	14.89	0.3655	14.14	19.59	14.15	0.1370	14.67	80- 90	34.46	985.2	98,98
100	12.43	7.622	0.1837	7.601	12.48	7.616	0.1603	6.961	90-100	9.573	994.8	98.9,98.9
110	12.53	4.025	0.2421	3.953	12.10	3.864	0.2128	4.241	100-110	6.557	1001	99.6,99.6
120	3.388	0.9366	0.3091	0.6672	2.584	0.5602	0.2914	0.9043	110-120	2.755	1004	99.8,99.8
130	0.4080	0.3612	0.3762	0.3835	0.4216	0.3830	0.3441	0.3748	120-130	0.5029	1005	99.9,99.9
140	0.4042	0.4209	0.4404	0.4446	0.4421	0.4267	0.4081	0.4403	130-140	0.3111	1005	99.9,99.9
150	0.4624	0.4805	0.4987	0.4929	0.4944	0.4835	0.4781	0.4914	140-150	0.2867	1005	100,100
160	0.5262	0.5271	0.5482	0.5424	0.5380	0.5228	0.5073	0.5293	150-160	0.2337	1005	100,100
170	0.5525	0.5621	0.5802	0.5789	0.5700	0.5548	0.5452	0.5657	160-170	0.1551	1006	100,100
180	0.5787	0.5854	0.5919	0.5891	0.5845	0.5854	0.5832	0.5862	170-180	0.0546	1006	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

0 - 60 DEG Zonal Flux:728.49 %lum: 72.4%
0 - 60 DEG Zonal Flux:728.49 %lum: 72.4%
All measured values may vary less than 35 %
from the average measured value in the 0 to 130 deg. zone: 14.5%
All measured values in the 0 to 130 deg. zone
may vary less than 50% from the average value of itself: 21.2%

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-20

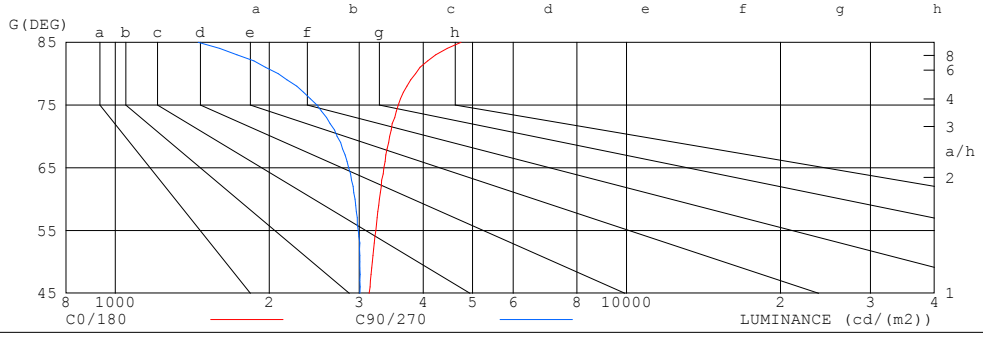
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

NAME: HCP-3456250-RGBW	**TYPE: 2835+2216**	**WEIGHT:**
SPEC.:	**DIM.: 1*0.012**	**SERIAL No.:**
MFR.: HAVIT COMMERCIAL	**SUR.:**	**Shielding Angle:**

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	4746	1453
80	3863	2084
75	3575	2479
70	3441	2716
65	3351	2862
60	3286	2942
55	3233	2986
50	3182	3009
45	3139	3008

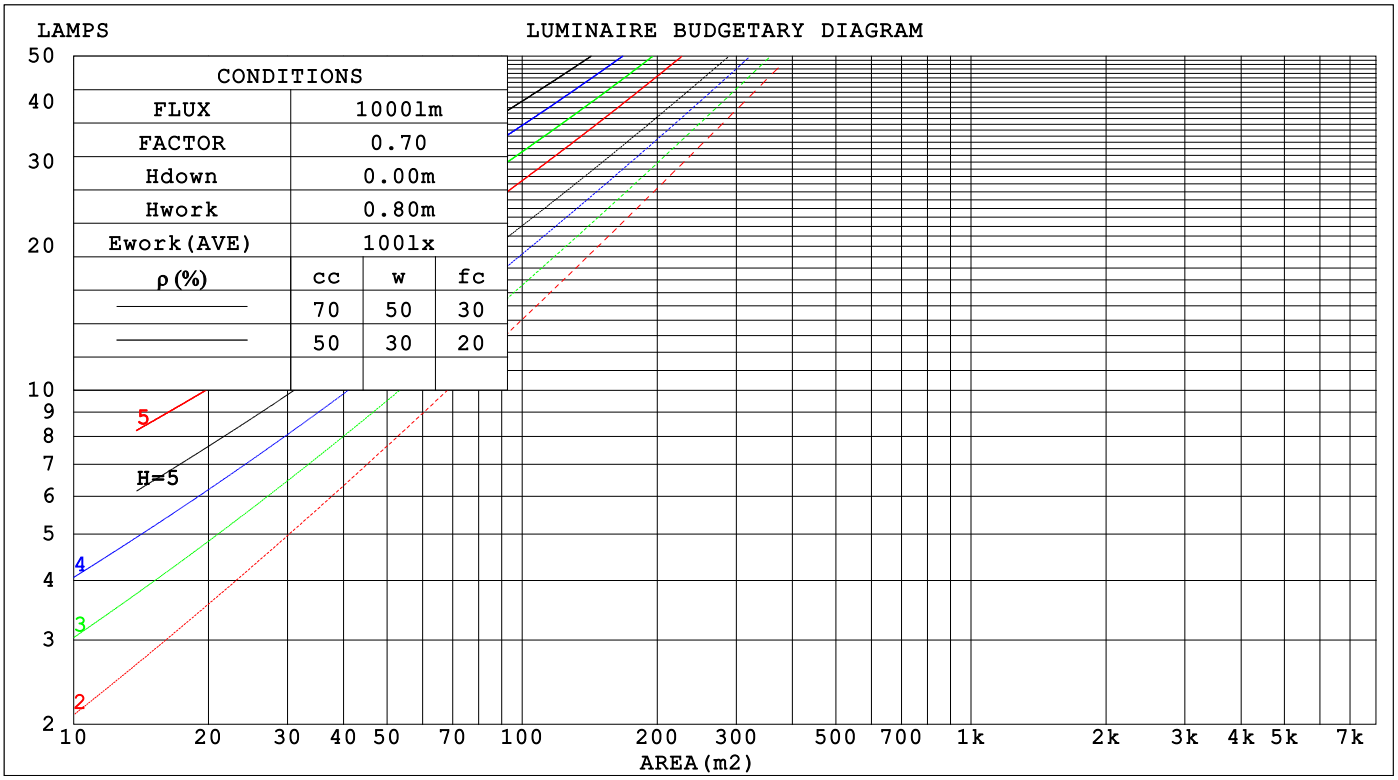
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: HCP-3456250-RGBW	TYPE: 2835+2216	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	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	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	.98
1.0	1.02	.97	.93	.99	.95	.91	.95	.91	.88	.90	.87	.85	.86	.84	.82	.80
2.0	.88	.80	.74	.86	.79	.73	.82	.76	.71	.78	.73	.69	.75	.71	.67	.65
3.0	.76	.68	.61	.75	.67	.60	.71	.64	.59	.68	.62	.58	.65	.60	.56	.54
4.0	.67	.58	.51	.66	.57	.51	.63	.56	.50	.60	.54	.49	.58	.52	.48	.45
5.0	.60	.50	.43	.59	.50	.43	.56	.48	.42	.54	.47	.42	.52	.46	.41	.39
6.0	.54	.44	.38	.53	.44	.37	.51	.43	.37	.49	.42	.36	.47	.41	.36	.34
7.0	.48	.39	.33	.48	.39	.33	.46	.38	.32	.44	.37	.32	.43	.36	.32	.30
8.0	.44	.35	.29	.43	.35	.29	.42	.34	.29	.40	.33	.28	.39	.33	.28	.26
9.0	.40	.32	.26	.40	.32	.26	.38	.31	.26	.37	.30	.26	.36	.30	.25	.23
10.0	.37	.29	.24	.37	.29	.24	.35	.28	.23	.34	.28	.23	.33	.27	.23	.21



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: HCP-3456250-RGBW	TYPE: 2835+2216	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	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			Wall Exitance Coeffcients(WEC)												
0.0																
1.0	.340	.193	.061	.332	.189	.060	.318	.182	.058	.304	.175	.056	.292	.169	.055	
2.0	.312	.171	.053	.305	.168	.052	.292	.163	.051	.281	.157	.049	.269	.152	.048	
3.0	.285	.152	.045	.279	.149	.045	.268	.145	.044	.257	.141	.043	.247	.137	.042	
4.0	.261	.136	.040	.255	.134	.040	.245	.130	.039	.236	.127	.038	.227	.123	.038	
5.0	.240	.122	.035	.235	.121	.035	.226	.117	.035	.217	.115	.034	.209	.112	.034	
6.0	.221	.111	.032	.217	.109	.032	.209	.107	.031	.201	.104	.031	.194	.102	.030	
7.0	.205	.101	.029	.201	.100	.029	.194	.098	.028	.187	.096	.028	.180	.094	.028	
8.0	.191	.093	.026	.187	.092	.026	.181	.090	.026	.174	.088	.025	.169	.087	.025	
9.0	.178	.086	.024	.175	.085	.024	.169	.084	.024	.164	.082	.023	.158	.080	.023	
10.0	.167	.080	.022	.164	.079	.022	.159	.078	.022	.154	.076	.022	.149	.075	.022	

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	.206	.206	.206	.176	.176	.176	.120	.120	.120	.069	.069	.069	.022	.022	.022	
1.0	.198	.171	.148	.169	.147	.127	.116	.101	.088	.067	.059	.051	.021	.019	.017	
2.0	.191	.148	.111	.163	.127	.096	.112	.088	.067	.065	.051	.039	.021	.017	.013	
3.0	.183	.130	.088	.157	.112	.076	.108	.078	.053	.062	.046	.032	.020	.015	.010	
4.0	.176	.117	.072	.151	.101	.063	.104	.071	.044	.060	.041	.026	.019	.013	.009	
5.0	.168	.107	.062	.144	.092	.054	.099	.065	.038	.058	.038	.022	.019	.012	.007	
6.0	.161	.099	.054	.138	.085	.047	.095	.060	.033	.055	.035	.020	.018	.011	.007	
7.0	.154	.092	.048	.132	.080	.042	.091	.056	.030	.053	.033	.018	.017	.011	.006	
8.0	.147	.086	.044	.127	.075	.038	.088	.052	.027	.051	.031	.016	.016	.010	.005	
9.0	.141	.081	.041	.121	.070	.036	.084	.049	.025	.049	.029	.015	.016	.010	.005	
10.0	.135	.077	.038	.116	.067	.033	.081	.047	.024	.047	.028	.014	.015	.009	.005	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: HCP-3456250-RGBW	TYPE: 2835+2216	WEIGHT:
SPEC.:	DIM.: 1*0.012	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	17.0	18.5	17.3	18.8	19.0	16.6	18.1	16.9	18.4	18.6
3H	18.9	20.3	19.2	20.6	20.9	18.2	19.6	18.5	19.9	20.2
4H	19.8	21.2	20.1	21.5	21.8	18.8	20.2	19.1	20.5	20.8
6H	20.6	21.9	21.0	22.2	22.5	19.2	20.5	19.6	20.8	21.1
8H	21.0	22.2	21.3	22.5	22.9	19.3	20.6	19.7	20.9	21.2
12H	21.3	22.5	21.7	22.8	23.2	19.3	20.5	19.7	20.9	21.2
4H 2H	17.6	19.0	18.0	19.3	19.6	17.3	18.7	17.7	19.0	19.3
3H	19.8	21.0	20.1	21.3	21.7	19.1	20.3	19.5	20.7	21.0
4H	20.8	21.9	21.2	22.3	22.7	19.9	21.0	20.3	21.3	21.7
6H	21.8	22.8	22.2	23.2	23.6	20.4	21.4	20.9	21.8	22.2
8H	22.2	23.1	22.7	23.5	24.0	20.6	21.5	21.0	21.9	22.4
12H	22.6	23.5	23.1	23.9	24.4	20.7	21.5	21.1	22.0	22.4
8H 4H	21.1	22.0	21.6	22.5	22.9	20.3	21.2	20.8	21.6	22.1
6H	22.3	23.1	22.8	23.5	24.0	21.1	21.8	21.5	22.3	22.7
8H	22.9	23.6	23.4	24.0	24.5	21.3	22.0	21.8	22.5	23.0
12H	23.5	24.1	24.0	24.5	25.1	21.5	22.1	22.0	22.6	23.1
12H 4H	21.1	22.0	21.6	22.4	22.9	20.4	21.2	20.8	21.7	22.1
6H	22.4	23.1	22.9	23.5	24.0	21.2	21.9	21.7	22.4	22.9
8H	23.0	23.6	23.5	24.1	24.6	21.6	22.2	22.1	22.6	23.2

Variations with the observer position at spacings(CIE Pub.117):		
S = 1.0H	+ 0.1 / - 0.1	+ 0.1 / - 0.2
1.5H	+ 0.2 / - 0.3	+ 0.2 / - 0.3
2.0H	+ 0.1 / - 0.3	+ 0.2 / - 0.4

CIE Pub.117, 1006 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.0)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: HCP-3456250-RGBW	TYPE: 2835+2216	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

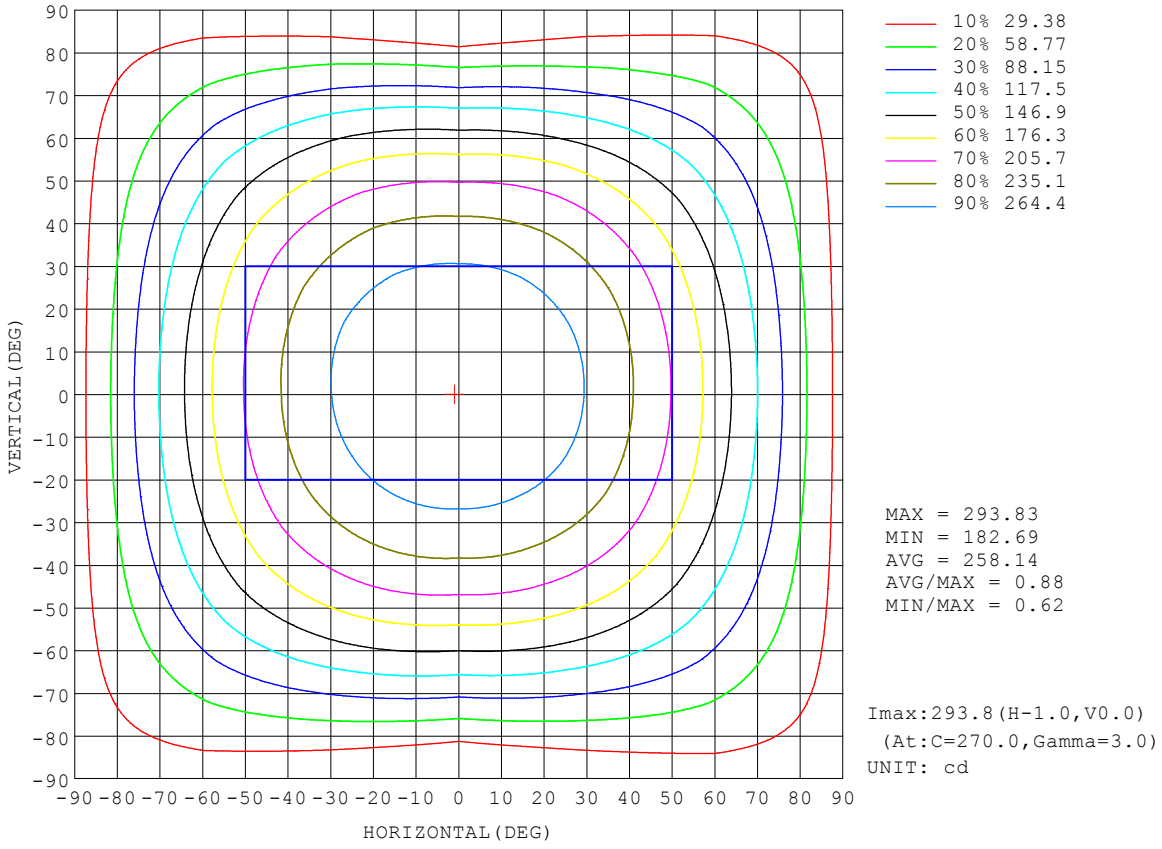
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	54	42	35	53	42	35	52	41	35	28
0.80	64	52	44	63	51	44	61	51	43	36
1.00	73	61	53	71	60	53	69	61	52	44
1.25	80	68	61	78	68	60	75	66	59	52
1.50	85	74	66	83	73	66	80	71	65	57
2.00	92	83	76	90	81	75	86	79	73	65
2.50	96	88	81	94	86	80	90	83	78	69
3.00	100	92	86	97	90	85	93	87	83	73
4.00	104	98	92	102	96	91	97	92	88	78
5.00	107	101	97	104	99	95	99	95	92	82
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:zhuo
Test Date:2022-05-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: HCP-3456250-RGBW	TYPE: 2835+2216	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

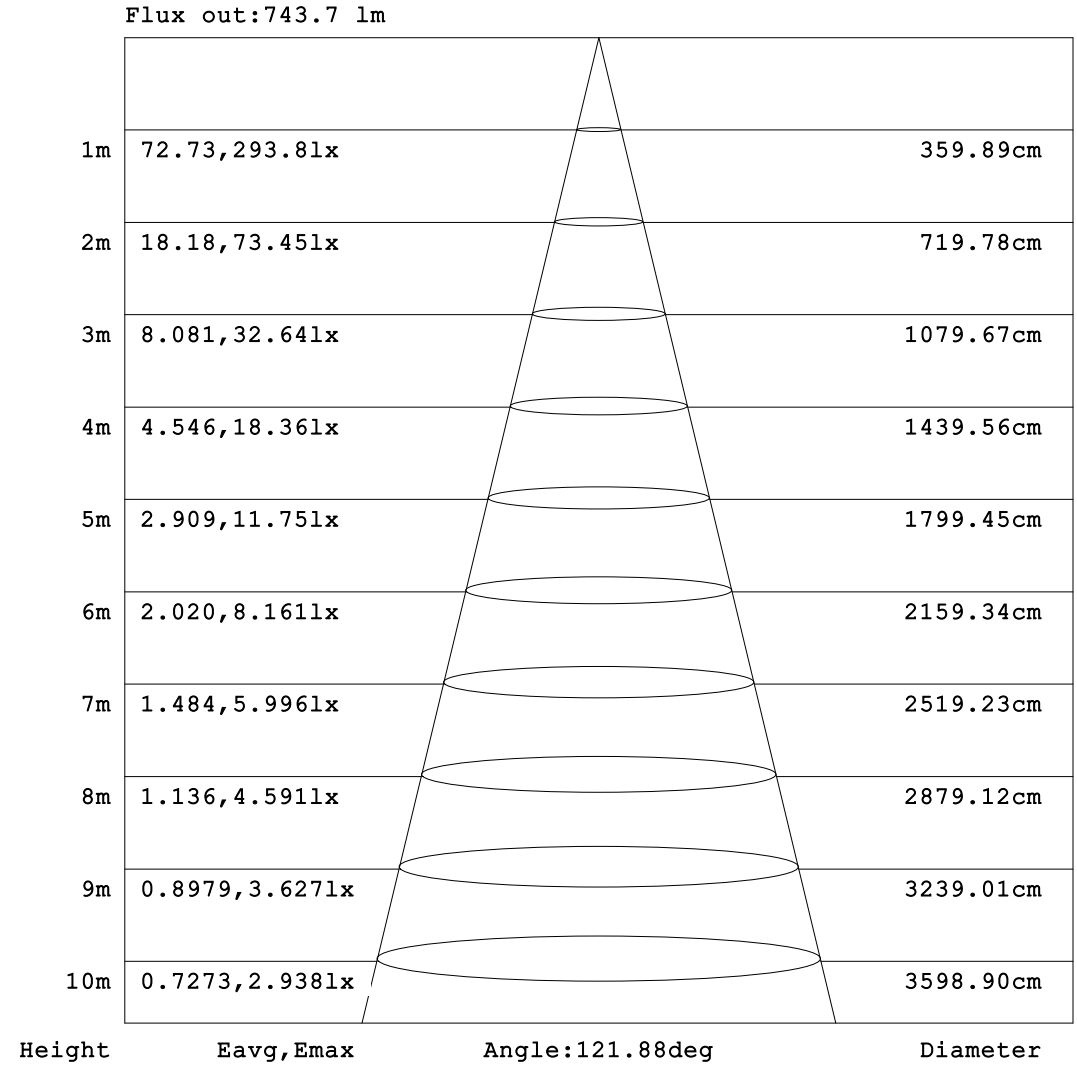


C Range: 0 - 360DEG
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Test Speed: HIGH
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

AAI Figure

NAME: HCP-3456250-RGBW	TYPE: 2835+2216	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:



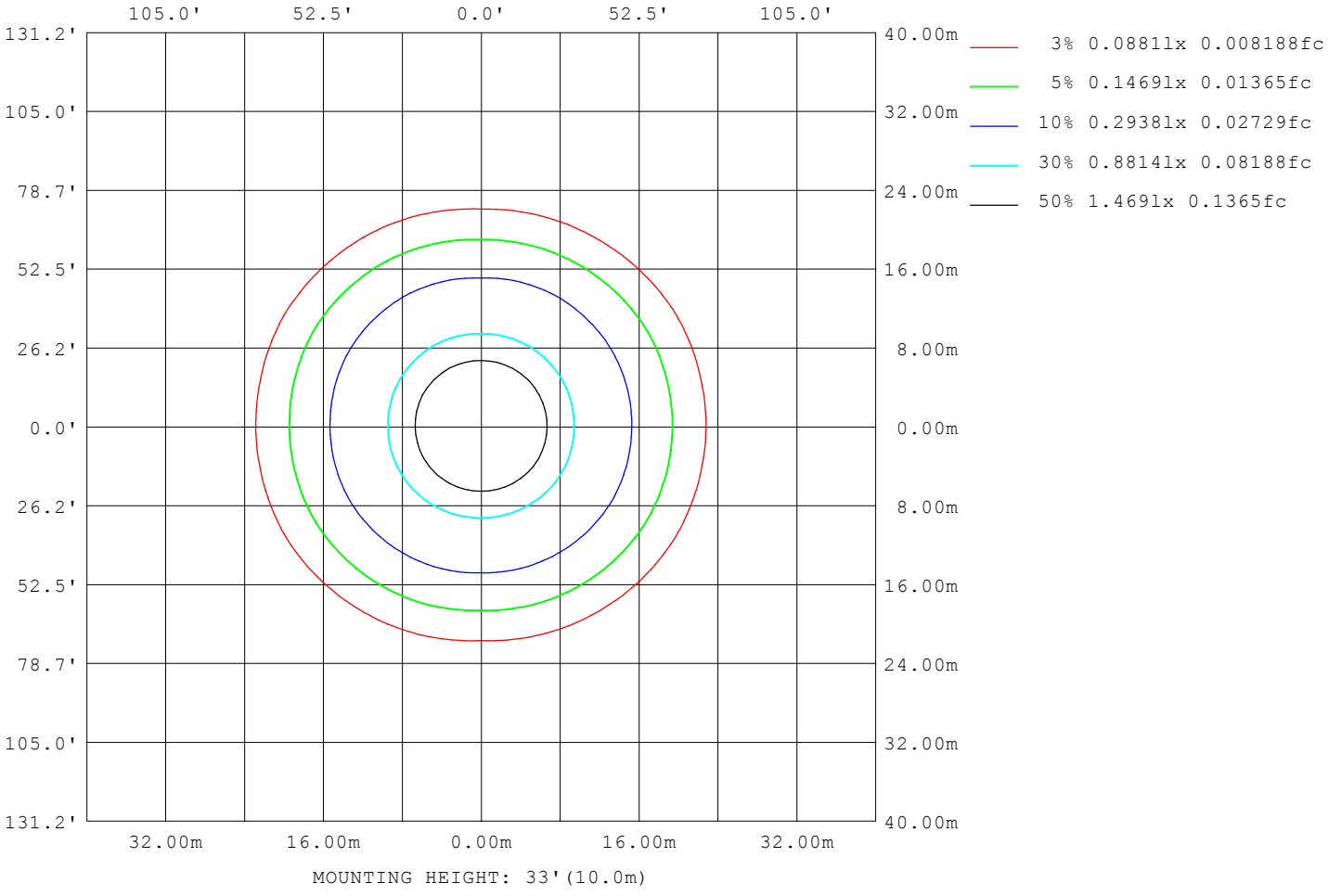
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

NAME: HCP-3456250-RGBW	TYPE: 2835+2216	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

LED Avg.L Report

NAME: HCP-3456250-RGBW	TYPE: 2835+2216	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
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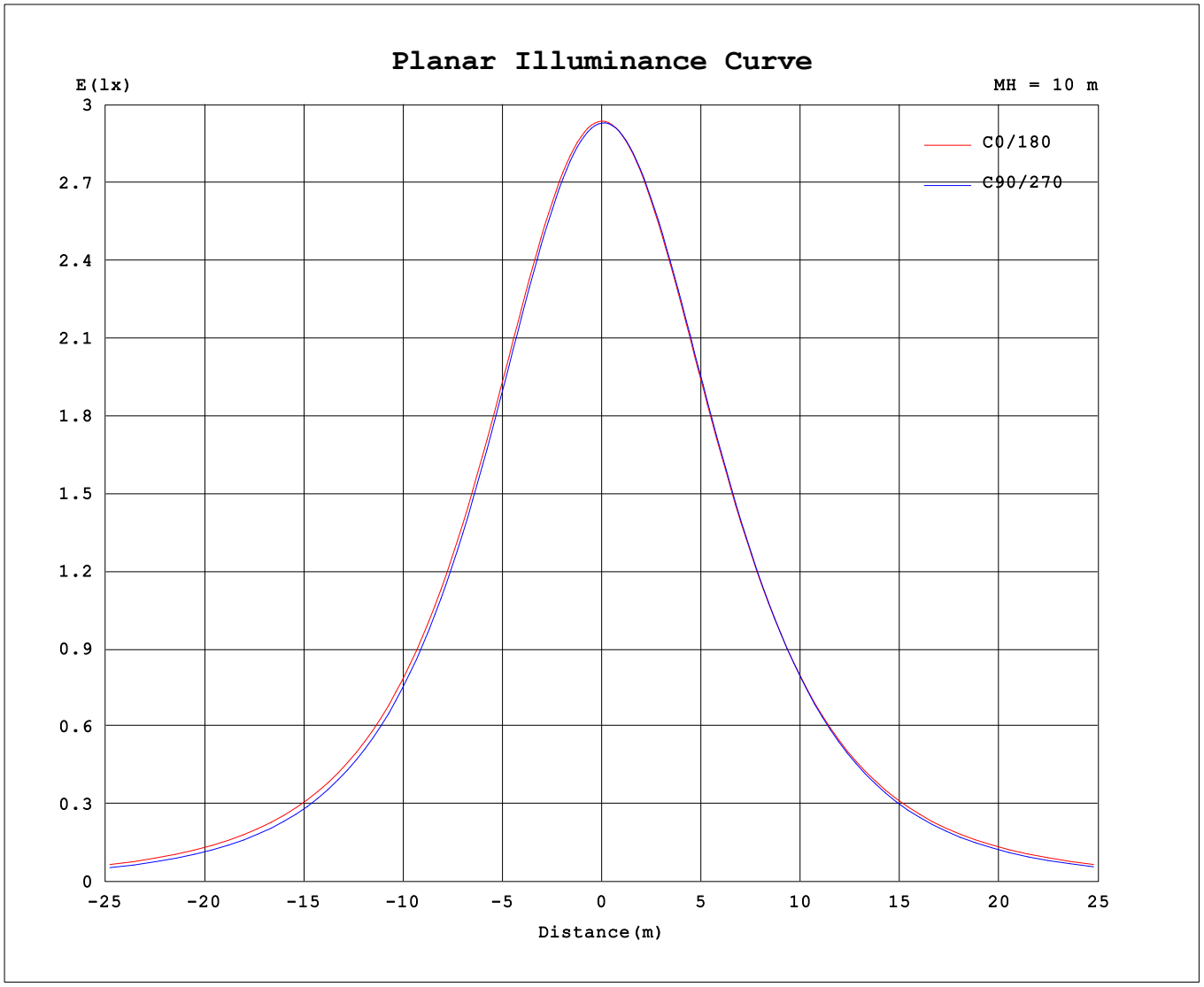
AvgL	cd/m2
L_0~180(65)av	3365
L_0~180(75)av	3582
L_0~180(85)av	4699
L_90~270(65)av	2959
L_90~270(75)av	2559
L_90~270(85)av	1379
L_45(65)av	3281
L_45(75)av	3278
L_45(85)av	3796

Standard: GB/T 29293-2012

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Planar Illuminance Curve



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γ Interval: 1.0DEG
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Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: HCP-3456250-RGBW	TYPE: 2835+2216	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	30	60	90	120	150	180	210	240	270	300	330
0	293	293	293	293	293	293	293	293	293	293	293	293
5	292	292	292	292	292	292	293	293	293	293	293	293
10	290	289	288	288	289	289	290	291	292	292	292	291
15	286	285	284	283	284	285	286	288	288	288	288	287
20	280	279	277	277	278	279	281	282	283	283	283	282
25	272	271	269	268	270	271	273	276	276	275	275	274
30	263	262	259	258	260	262	264	267	268	266	266	265
35	251	250	247	245	248	251	252	257	257	254	255	254
40	237	237	233	230	234	238	239	244	244	240	242	241
45	222	221	216	213	218	223	224	229	229	224	226	226
50	204	204	198	194	200	206	207	212	211	204	209	208
55	185	184	178	171	180	187	188	192	190	182	188	189
60	164	162	155	147	157	165	166	170	166	157	162	167
65	141	139	129	121	131	141	143	146	140	129	135	143
70	117	114	103	93.0	104	116	119	120	111	99.4	107	117
75	92.4	89.2	75.7	64.2	76.5	90.0	93.0	92.5	81.9	68.2	77.3	90.9
80	67.0	63.4	49.2	36.2	49.3	63.2	66.7	64.5	52.8	37.6	49.5	64.2
85	41.3	38.6	26.2	12.7	25.7	37.2	40.6	37.5	27.4	11.4	27.6	38.6
90	20.3	18.5	11.2	0.37	10.7	17.5	19.6	17.3	11.0	0.14	11.1	18.2
95	12.0	11.6	7.49	0.16	7.09	11.2	12.1	11.1	7.14	0.13	7.42	10.7
100	12.4	10.6	4.61	0.18	4.10	11.1	12.5	11.1	4.12	0.16	4.77	9.15
105	13.7	10.5	1.77	0.21	1.30	10.4	14.2	10.4	1.22	0.19	1.78	10.2
110	12.5	7.57	0.48	0.24	0.40	7.50	12.1	7.41	0.31	0.21	0.50	7.98
115	8.03	4.19	0.28	0.28	0.32	3.47	7.30	3.25	0.29	0.25	0.28	4.06
120	3.39	1.58	0.30	0.31	0.32	1.02	2.58	0.81	0.31	0.29	0.31	1.50
125	1.15	0.45	0.31	0.34	0.32	0.43	0.75	0.42	0.34	0.31	0.34	0.48
130	0.41	0.38	0.35	0.38	0.35	0.41	0.42	0.39	0.38	0.34	0.38	0.37
135	0.39	0.40	0.39	0.41	0.39	0.43	0.42	0.39	0.41	0.39	0.41	0.40
140	0.40	0.43	0.41	0.44	0.44	0.45	0.44	0.41	0.44	0.41	0.44	0.44
145	0.44	0.47	0.44	0.48	0.45	0.47	0.47	0.44	0.47	0.44	0.46	0.45
150	0.46	0.49	0.47	0.50	0.49	0.50	0.49	0.47	0.49	0.48	0.50	0.49
155	0.49	0.51	0.49	0.52	0.50	0.52	0.51	0.49	0.52	0.49	0.52	0.49
160	0.53	0.54	0.51	0.55	0.53	0.55	0.54	0.50	0.54	0.51	0.54	0.52
165	0.54	0.56	0.53	0.57	0.55	0.57	0.56	0.53	0.56	0.53	0.56	0.53
170	0.55	0.57	0.55	0.58	0.57	0.59	0.57	0.54	0.57	0.55	0.57	0.56
175	0.57	0.58	0.57	0.58	0.58	0.59	0.58	0.56	0.58	0.57	0.58	0.58
180	0.58	0.59	0.58	0.59	0.59	0.59	0.58	0.59	0.59	0.58	0.59	0.58

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