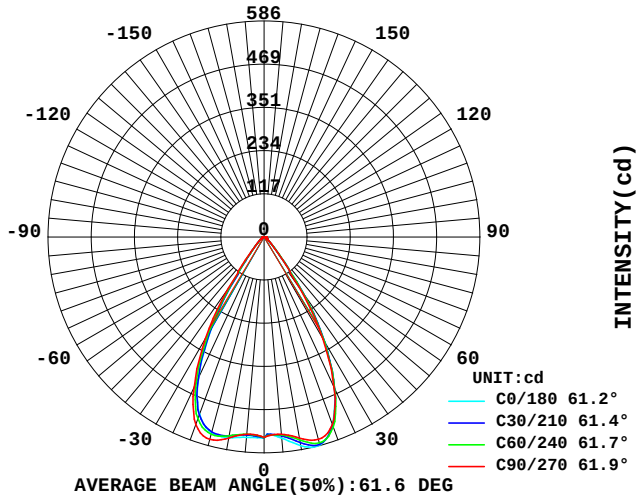
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

MANUFACTURER: Havit Lighting	Address:	
NAME: HV5841T-4K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HV5841T-4K	DIMENSION:	SERIAL No.:2013051602

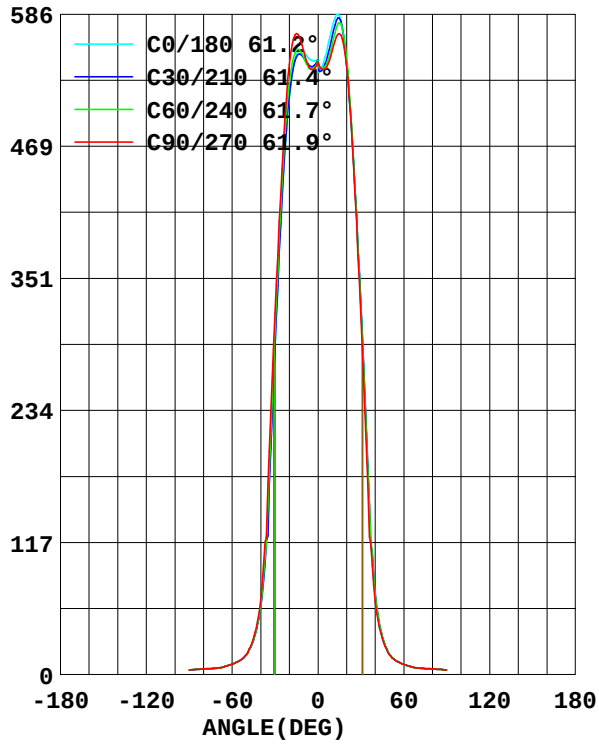
DATA OF LAMP		Imax(cd)	585.6	S/MH(C0/180)	0.89
MODEL	HV5841T-4K	EFFICIENCY(%)	100.0	S/MH(C90/270)	0.92
NOMINAL POWER(W)	7	TOTAL FLUX(lm)	558.69	Voltage(V)	229.3
RATED VOLTAGE(V)	230	EFFICIENCY(lm/W)	76.7	Current(A)	0.035
NOMINAL FLUX(lm)	558.7	h up(%)	0.0	Power(W)	7.280
LAMPS QUANTITY	1	h down(%)	100.0	Power Factor(PF)	0.883
TEST VOLTAGE(V)	229.3	Effictive Flux(lm)	509.3	EEI	0.162

LUMINOUS INTENSITY DISTRIBUTION



AVERAGE BEAM ANGLE(50%):61.6 DEG

LUMINOUS INTENSITY DISTRIBUTION



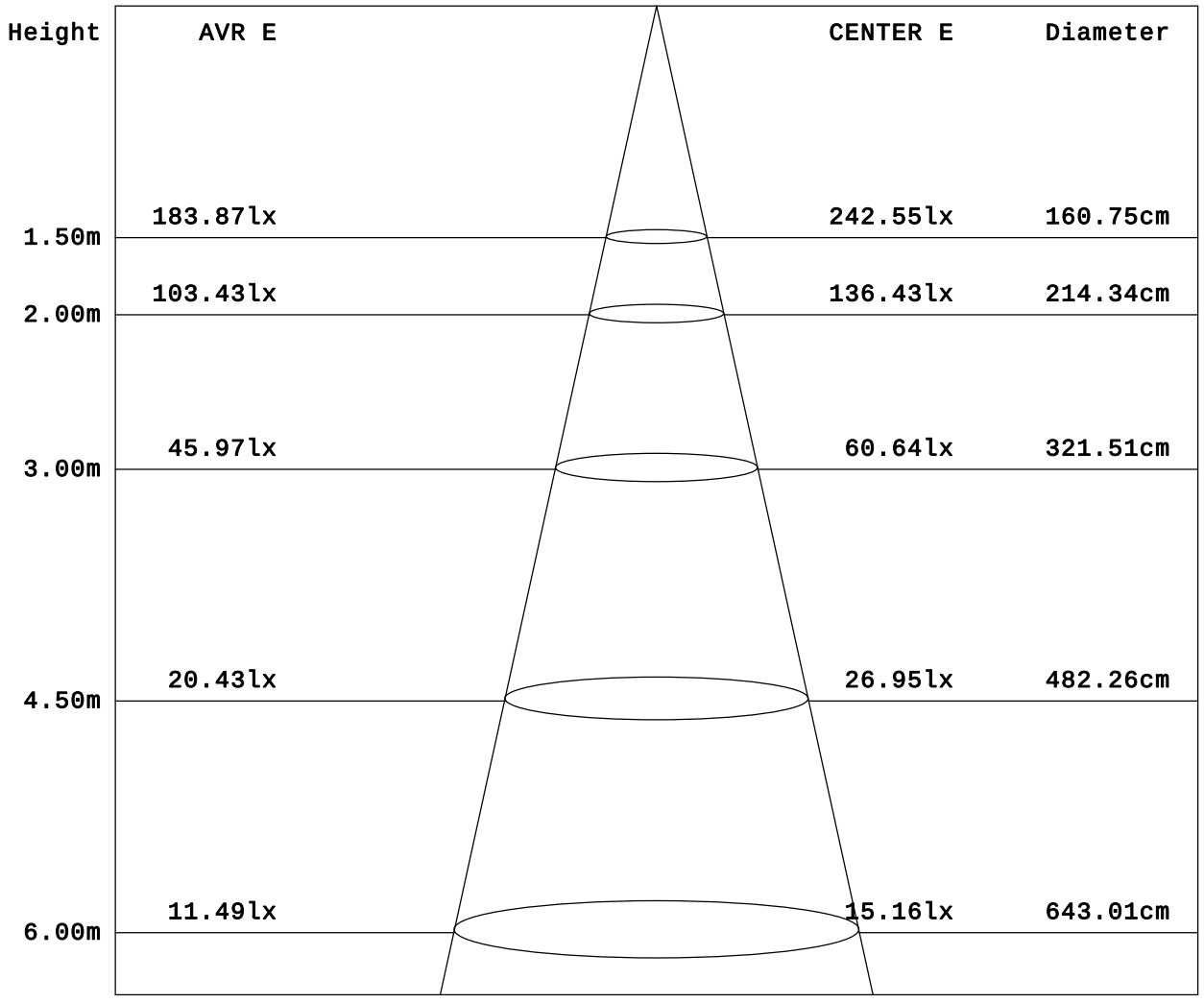
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022-12-02

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks:

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER: Havit Lighting	Address:	
NAME: HV5841T-4K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HV5841T-4K	DIMENSION:	SERIAL No.:2013051602



Angle:56.4deg

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022-12-02

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks:

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER: Havit Lighting	Address:	
NAME: HV5841T-4K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HV5841T-4K	DIMENSION:	SERIAL No.:2013051602

g	C0	C45	C90	C135	C180	C225	C270	C315	g	Zone	Total
5.0	545.2	535.6	537.0	537.2	547.3	537.2	537.0	535.6	0- 5	12.85	12.85
10.0	552.4	544.0	553.4	558.9	574.6	558.9	553.4	544.0	5- 10	39.09	51.95
15.0	550.1	544.8	568.5	574.4	584.3	574.4	568.5	544.8	10- 15	66.65	118.6
20.0	512.0	510.5	541.3	538.4	541.3	538.4	541.3	510.5	15- 20	90.65	209.2
25.0	419.8	416.8	448.1	441.0	450.1	441.0	448.1	416.8	20- 25	101.9	311.2
30.0	287.5	283.9	320.1	316.9	330.0	316.9	320.1	283.9	25- 30	94.01	405.2
35.0	123.3	137.1	168.8	176.1	179.6	176.1	168.8	137.1	30- 35	68.96	474.1
40.0	58.94	52.79	65.08	64.95	68.22	64.95	65.08	52.79	35- 40	34.08	508.2
45.0	30.46	26.49	32.38	29.44	32.12	29.44	32.38	26.49	40- 45	16.09	524.3
50.0	17.34	14.20	17.92	14.65	17.53	14.65	17.92	14.20	45- 50	8.893	533.2
55.0	12.09	9.535	12.03	9.216	11.83	9.216	12.03	9.535	50- 55	5.688	538.9
60.0	9.216	6.976	9.151	6.592	9.023	6.592	9.151	6.976	55- 60	4.272	543.2
65.0	7.104	5.248	7.104	4.992	6.976	4.992	7.104	5.248	60- 65	3.405	546.6
70.0	5.824	4.224	5.888	4.224	5.824	4.224	5.888	4.224	65- 70	2.748	549.3
75.0	5.312	3.840	5.376	3.904	5.312	3.904	5.376	3.840	70- 75	2.491	551.8
80.0	4.992	3.712	5.056	3.776	4.992	3.776	5.056	3.712	75- 80	2.413	554.2
85.0	4.544	3.456	4.608	3.456	4.608	3.456	4.608	3.456	80- 85	2.290	556.5
90.0	3.968	3.264	4.032	3.328	3.968	3.328	4.032	3.264	85- 90	2.122	558.6
95.0									90- 95		
100.0									95-100		
105.0									100-105		
110.0									105-110		
115.0									110-115		
120.0									115-120		
125.0									120-125		
130.0									125-130		
135.0									130-135		
140.0									135-140		
145.0									140-145		
150.0									145-150		
155.0									150-155		
160.0									155-160		
165.0									160-165		
170.0									165-170		
175.0									170-175		
180.0									175-180		
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022-12-02

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks:

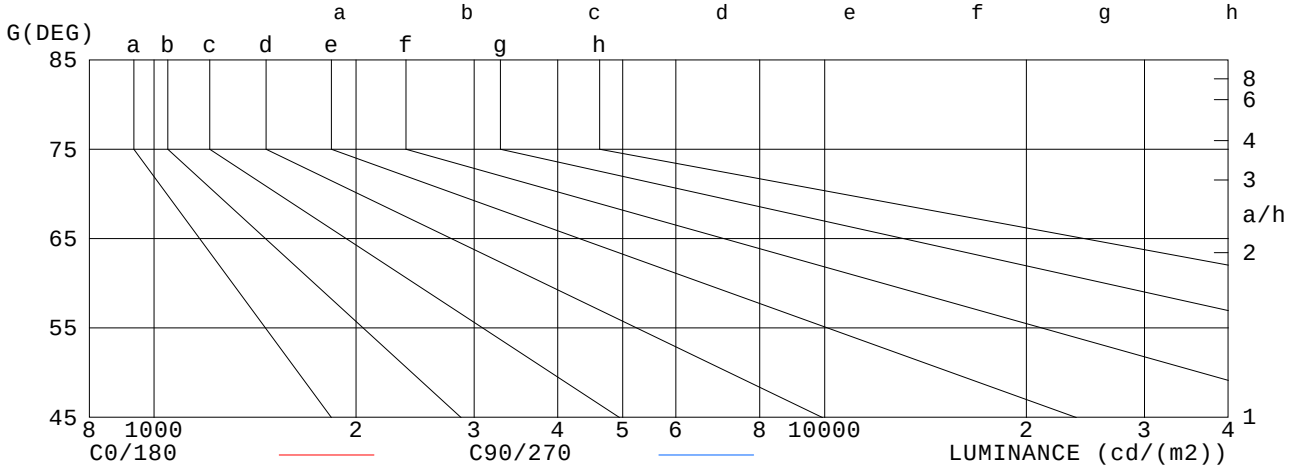
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER: Havit Lighting	**Address:**	
NAME: HV5841T-4K	**TYPE:downlight**	**WEIGHT:0.5KG**
SPECIFICATION:HV5841T-4K	**DIMENSION:**	**SERIAL No.:2013051602**

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	261	264
80	144	146
75	103	104
70	85	86
65	84	84
60	92	92
55	105	105
50	135	139
45	215	229

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022-12-02

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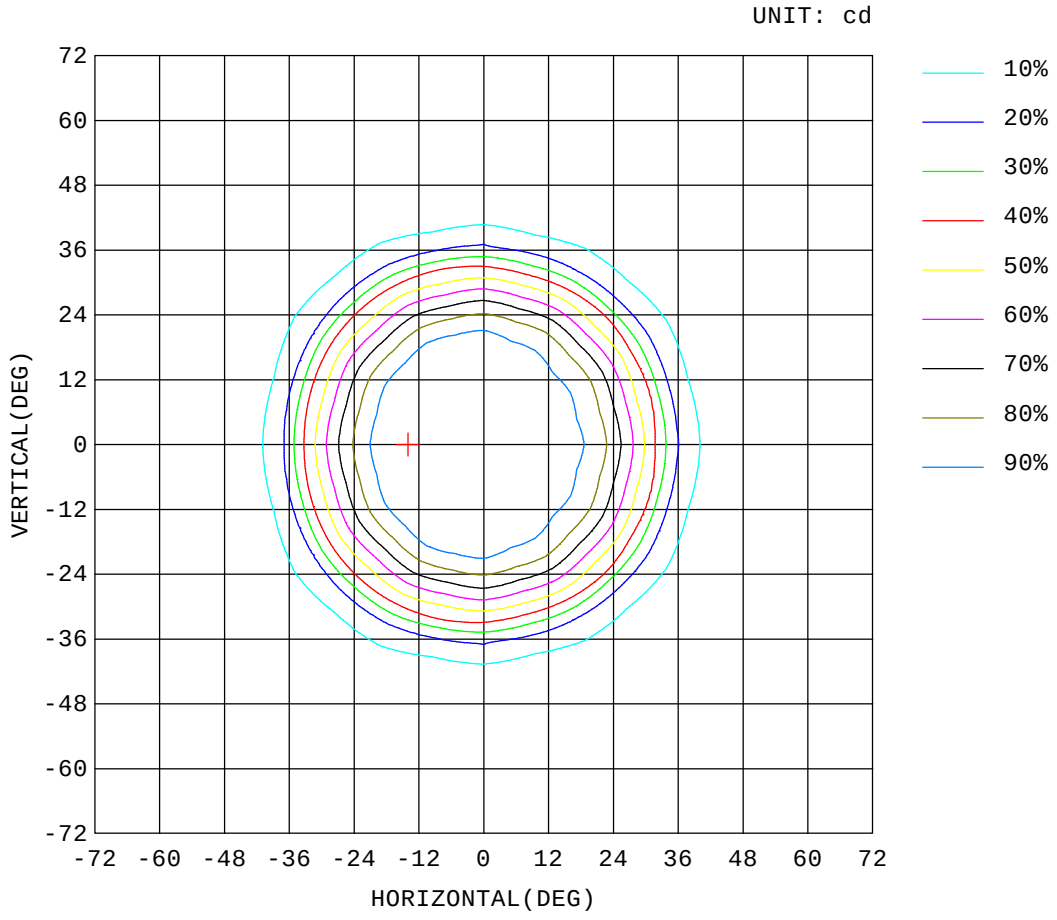
Test Distance:8.000 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: Havit Lighting	Address:	
NAME: HV5841T-4K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HV5841T-4K	DIMENSION:	SERIAL No.:2013051602



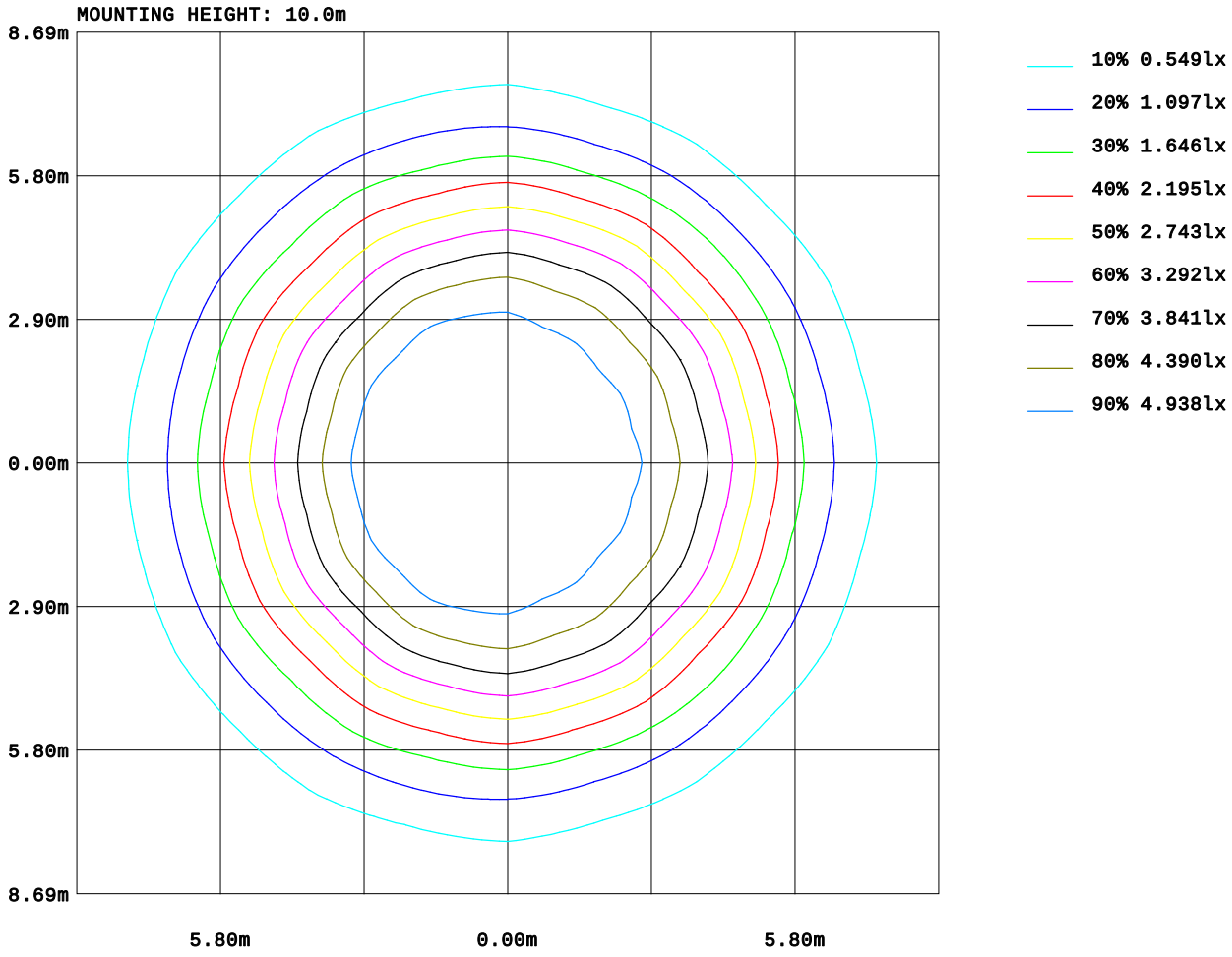
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022-12-02

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER: Havit Lighting	Address:	
NAME: HV5841T-4K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HV5841T-4K	DIMENSION:	SERIAL No.:2013051602



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022-12-02

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks:

AREA LUMINOUS FLUX

Report number:

MANUFACTURER: Havit Lighting	Address:	
NAME: HV5841T-4K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HV5841T-4K	DIMENSION:	SERIAL No.:2013051602

AREA FLUX DIAGRAM — UNIT:lm

VERTICAL(DEG)	-72	-64	-56	-48	-40	-32	-24	-16	HORIZONTAL(DEG) 16	24	32	40	48	56	64	72	F t	F a
72	0.03	0.05	0.06	0.06	0.08	0.10	0.09	0.09	0.11	0.11	0.09	0.09	0.10	0.07	0.06	0.06	0.05	0.03	1.31	0.00
64	0.03	0.05	0.06	0.07	0.09	0.12	0.13	0.13	0.16	0.17	0.14	0.14	0.13	0.09	0.07	0.06	0.05	0.03	1.70	0.00
56	0.03	0.05	0.07	0.09	0.11	0.17	0.21	0.23	0.28	0.28	0.23	0.21	0.18	0.12	0.09	0.07	0.05	0.03	2.49	0.00
48	0.03	0.05	0.09	0.12	0.16	0.28	0.45	0.57	0.71	0.69	0.54	0.43	0.27	0.17	0.13	0.09	0.05	0.03	4.85	0.09
40	0.03	0.05	0.10	0.17	0.29	0.60	1.29	2.12	2.75	2.61	1.84	1.09	0.53	0.28	0.18	0.10	0.05	0.03	14.1	10.5
32	0.03	0.06	0.11	0.24	0.60	1.60	3.84	5.92	6.95	6.82	5.50	3.27	1.27	0.53	0.23	0.11	0.06	0.03	37.2	34.8
24	0.04	0.07	0.12	0.32	1.11	3.66	6.74	9.21	10.2	10.0	8.82	6.23	2.97	0.91	0.30	0.12	0.07	0.04	61.0	59.2
	0.04	0.08	0.15	0.42	1.79	5.38	8.82	10.7	10.9	10.7	10.1	8.28	4.69	1.39	0.39	0.15	0.08	0.04	74.4	72.7
	0.04	0.09	0.18	0.53	2.37	6.27	9.62	10.9	10.5	10.4	10.4	9.06	5.63	1.88	0.48	0.17	0.09	0.04	78.9	77.3
	0.04	0.09	0.18	0.53	2.37	6.27	9.62	10.9	10.5	10.4	10.4	9.06	5.63	1.88	0.48	0.17	0.09	0.04	78.9	77.3
	0.04	0.08	0.15	0.42	1.79	5.38	8.82	10.7	10.9	10.7	10.1	8.28	4.69	1.39	0.39	0.15	0.08	0.04	74.4	72.7
-24	0.04	0.07	0.12	0.32	1.11	3.66	6.74	9.21	10.2	10.0	8.82	6.23	2.97	0.91	0.30	0.12	0.07	0.04	61.0	59.2
-32	0.03	0.06	0.11	0.24	0.60	1.60	3.84	5.92	6.95	6.82	5.50	3.27	1.27	0.53	0.23	0.11	0.06	0.03	37.2	34.8
-40	0.03	0.05	0.10	0.17	0.29	0.60	1.29	2.12	2.75	2.61	1.84	1.09	0.53	0.28	0.18	0.10	0.05	0.03	14.1	10.5
-48	0.03	0.05	0.09	0.12	0.16	0.28	0.45	0.57	0.71	0.69	0.54	0.43	0.27	0.17	0.13	0.09	0.05	0.03	4.85	0.09
-56	0.03	0.05	0.07	0.09	0.11	0.17	0.21	0.23	0.28	0.28	0.23	0.21	0.18	0.12	0.09	0.07	0.05	0.03	2.49	0.00
-64	0.03	0.05	0.06	0.07	0.09	0.12	0.13	0.13	0.16	0.17	0.14	0.14	0.13	0.09	0.07	0.06	0.05	0.03	1.70	0.00
-72	0.03	0.05	0.06	0.06	0.08	0.10	0.09	0.09	0.11	0.11	0.09	0.09	0.10	0.07	0.06	0.06	0.05	0.03	1.31	0.00
F t	0.61	1.05	1.86	4.02	13.2	36.4	62.4	79.9	85.6	83.9	75.5	57.6	31.5	10.8	3.83	1.88	1.07	0.61	559	
F a	0.00	0.00	0.00	0.14	9.92	33.6	59.9	77.7	83.1	81.5	73.1	54.9	28.5	7.09	0.00	0.00	0.00	0.00		509

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022-12-02

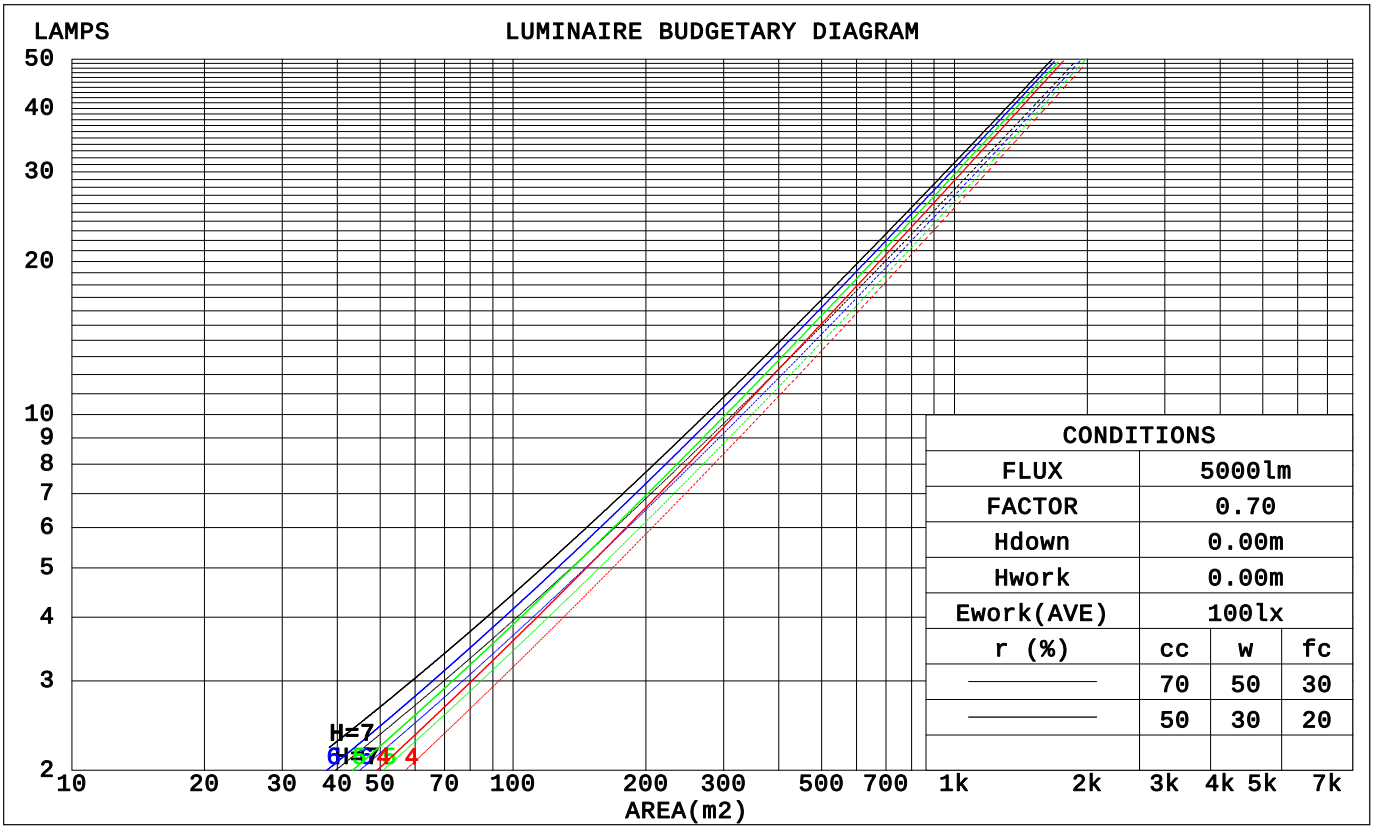
Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER: Havit Lighting	Address:	
NAME: HV5841T-4K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HV5841T-4K	DIMENSION:	SERIAL No.:2013051602

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	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	1.00
1.0	1.10	1.07	1.05	1.08	1.05	1.03	1.04	1.02	1.00	1.00	.99	.97	.97	.95	.94	.92
2.0	1.02	.98	.94	1.00	.96	.93	.97	.94	.91	.94	.91	.89	.91	.89	.87	.86
3.0	.95	.90	.86	.94	.89	.85	.91	.87	.84	.89	.85	.82	.86	.83	.81	.79
4.0	.89	.83	.79	.88	.82	.78	.85	.81	.77	.83	.79	.76	.81	.78	.75	.74
5.0	.83	.77	.73	.82	.76	.72	.80	.75	.72	.79	.74	.71	.77	.73	.70	.69
6.0	.78	.72	.67	.77	.71	.67	.76	.70	.67	.74	.70	.66	.73	.69	.66	.64
7.0	.73	.67	.63	.73	.67	.63	.71	.66	.62	.70	.65	.62	.69	.65	.62	.60
8.0	.69	.63	.59	.68	.63	.59	.67	.62	.58	.66	.62	.58	.65	.61	.58	.56
9.0	.65	.59	.55	.65	.59	.55	.64	.58	.55	.63	.58	.55	.62	.58	.54	.53
10.0	.62	.56	.52	.61	.55	.52	.60	.55	.52	.60	.55	.51	.59	.54	.51	.50



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022-12-02

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks:

WEC AND CCEC

Report number:

MANUFACTURER: Havit Lighting	Address:	
NAME: HV5841T-4K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HV5841T-4K	DIMENSION:	SERIAL No.:2013051602

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coeffcients(WEC)									
0.0																
1.0	.192	.109	.035	.185	.106	.034	.173	.099	.032	.161	.093	.030	.150	.087	.028	
2.0	.180	.099	.030	.174	.096	.030	.164	.091	.028	.154	.086	.027	.145	.082	.026	
3.0	.170	.090	.027	.165	.088	.027	.156	.084	.026	.147	.081	.025	.139	.077	.024	
4.0	.161	.083	.025	.156	.082	.024	.148	.079	.024	.141	.076	.023	.134	.073	.022	
5.0	.152	.078	.022	.149	.076	.022	.142	.074	.022	.135	.071	.021	.129	.069	.021	
6.0	.145	.073	.021	.142	.072	.021	.136	.069	.020	.130	.067	.020	.125	.066	.019	
7.0	.138	.068	.019	.135	.067	.019	.130	.066	.019	.125	.064	.019	.120	.062	.018	
8.0	.132	.064	.018	.129	.064	.018	.124	.062	.018	.120	.061	.018	.116	.059	.017	
9.0	.126	.061	.017	.124	.060	.017	.120	.059	.017	.115	.058	.017	.112	.057	.016	
10.0	.121	.058	.016	.119	.057	.016	.115	.056	.016	.111	.055	.016	.108	.054	.016	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.172	.157	.144	.147	.135	.124	.101	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.157	.132	.112	.135	.114	.096	.092	.079	.067	.053	.046	.039	.017	.015	.013	
3.0	.145	.114	.088	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.135	.099	.072	.116	.086	.062	.080	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.126	.087	.059	.109	.076	.051	.075	.053	.036	.043	.031	.021	.014	.010	.007	
6.0	.119	.078	.049	.102	.068	.043	.071	.047	.030	.041	.028	.018	.013	.009	.006	
7.0	.112	.071	.042	.097	.061	.036	.067	.043	.026	.039	.025	.015	.013	.008	.005	
8.0	.107	.065	.036	.092	.056	.031	.064	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.102	.059	.031	.088	.052	.027	.061	.036	.019	.035	.021	.011	.011	.007	.004	
10.0	.097	.055	.027	.084	.048	.024	.058	.034	.017	.034	.020	.010	.011	.007	.003	

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022-12-02

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks:

Uncorrected UGR Table

Report number:

MANUFACTURER: Havit Lighting	Address:	
NAME: HV5841T-4K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HV5841T-4K	DIMENSION:	SERIAL No.:2013051602

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	2.8	3.8	3.0	4.0	4.1	3.3	4.3	3.6	4.5	4.6
3H	2.9	3.8	3.2	4.0	4.2	3.4	4.3	3.7	4.5	4.7
4H	3.1	3.9	3.3	4.1	4.4	3.5	4.4	3.8	4.6	4.8
6H	3.4	4.2	3.7	4.5	4.7	3.9	4.7	4.2	4.9	5.1
8H	3.7	4.5	4.0	4.8	5.0	4.1	4.9	4.4	5.2	5.4
12H	4.2	4.9	4.5	5.2	5.5	4.5	5.3	4.9	5.5	5.8
4H 2H	2.7	3.5	3.0	3.8	4.0	3.2	4.0	3.5	4.3	4.5
3H	2.9	3.7	3.3	4.0	4.2	3.4	4.1	3.7	4.4	4.7
4H	3.2	3.9	3.6	4.2	4.5	3.6	4.3	4.0	4.6	4.9
6H	3.8	4.4	4.2	4.7	5.0	4.1	4.7	4.5	5.1	5.4
8H	4.2	4.8	4.6	5.1	5.5	4.5	5.1	4.9	5.4	5.8
12H	4.8	5.3	5.2	5.7	6.1	5.1	5.6	5.5	6.0	6.4
8H 4H	3.3	3.9	3.7	4.2	4.6	3.7	4.3	4.1	4.6	5.0
6H	4.2	4.6	4.6	5.0	5.4	4.5	4.9	4.9	5.3	5.7
8H	4.8	5.2	5.2	5.6	6.0	5.1	5.5	5.5	5.9	6.3
12H	5.6	5.9	6.1	6.4	6.8	5.8	6.2	6.3	6.6	7.1
12H 4H	3.4	3.9	3.8	4.3	4.6	3.8	4.3	4.2	4.6	5.0
6H	4.3	4.7	4.7	5.1	5.5	4.6	5.0	5.0	5.4	5.8
8H	5.0	5.3	5.5	5.8	6.3	5.3	5.6	5.7	6.0	6.5
Variations with the observer position at spacings:										
S = 1.0H	+ 1.5 / - 1.1					+ 1.9 / - 1.3				
1.5H	+ 2.9 / - 1.0					+ 3.6 / - 1.2				
2.0H	+ 1.3 / - 0.7					+ 1.4 / - 0.7				

CIE Pub.117 Corrected 558.6 lm Total Lamp Luminous Flux.(8log(F/F0) = -2.0)

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022-12-02

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks:

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER: Havit Lighting	Address:	
NAME: HV5841T-4K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HV5841T-4K	DIMENSION:	SERIAL No.:2013051602

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	86	79	75	85	79	75	85	79	75	72
0.80	93	87	83	93	87	83	92	86	83	79
1.00	98	92	88	97	92	88	96	92	87	83
1.25	102	97	93	101	96	93	99	95	92	87
1.50	105	100	96	104	99	96	101	98	95	90
2.00	108	103	100	106	102	99	103	100	98	92
2.50	109	105	102	108	104	101	105	102	99	93
3.00	111	107	104	109	106	103	106	103	101	95
4.00	113	110	108	111	109	106	107	105	104	96
5.00	114	112	110	112	110	108	108	107	105	98
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004	Suspended								SHRNOM = 1.25	

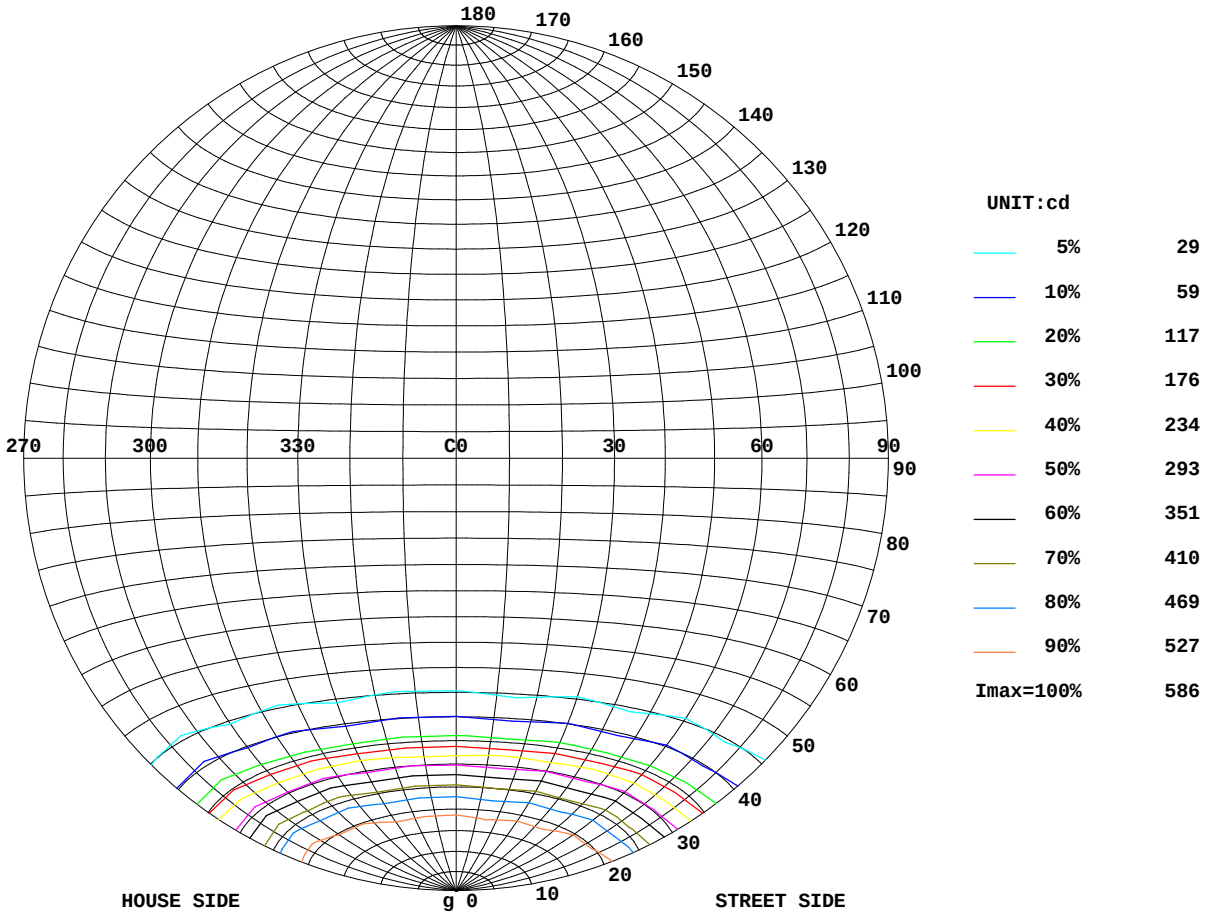
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022-12-02

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: Havit Lighting	Address:	
NAME: HV5841T-4K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HV5841T-4K	DIMENSION:	SERIAL No.:2013051602



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022-12-02

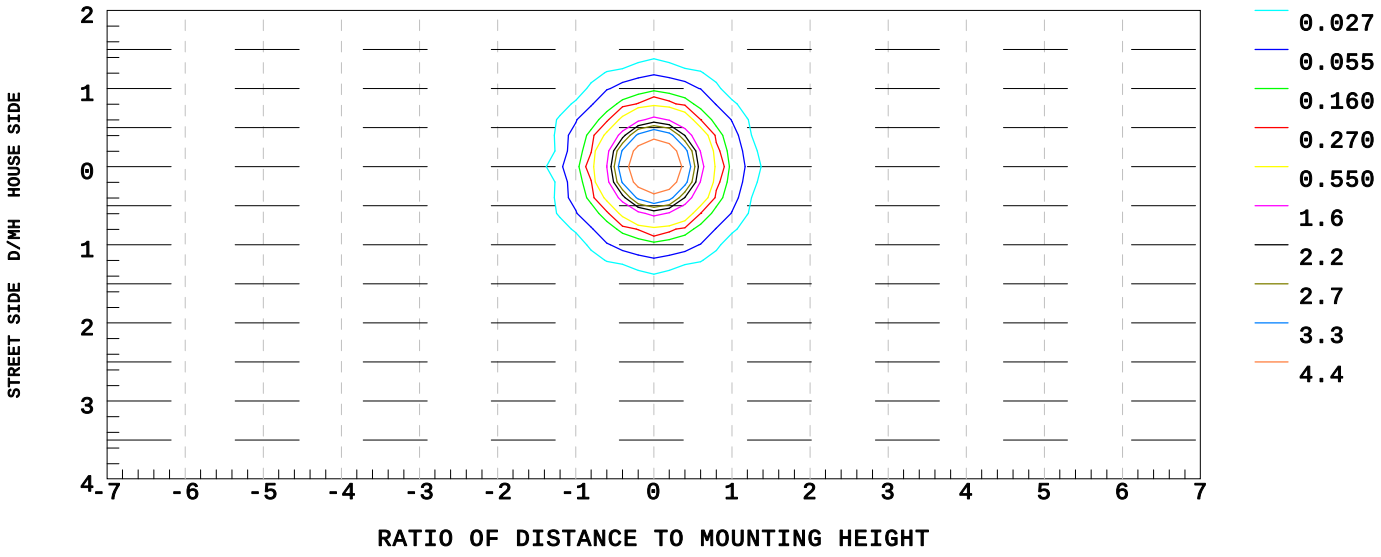
Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks:

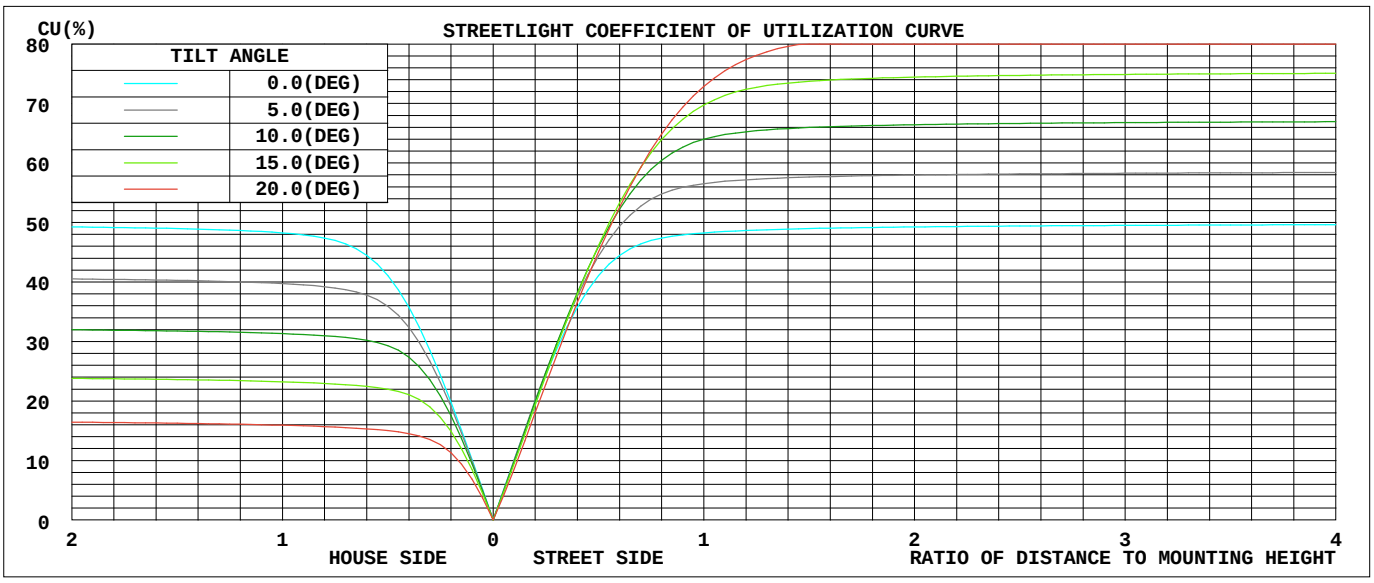
ISOLUX DIAGRAM

Report number:

MANUFACTURER: Havit Lighting	Address:	
NAME: HV5841T-4K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HV5841T-4K	DIMENSION:	SERIAL No.:2013051602

ILLUMINANCE AT MH=10 m,Enadir = 5.46 lx





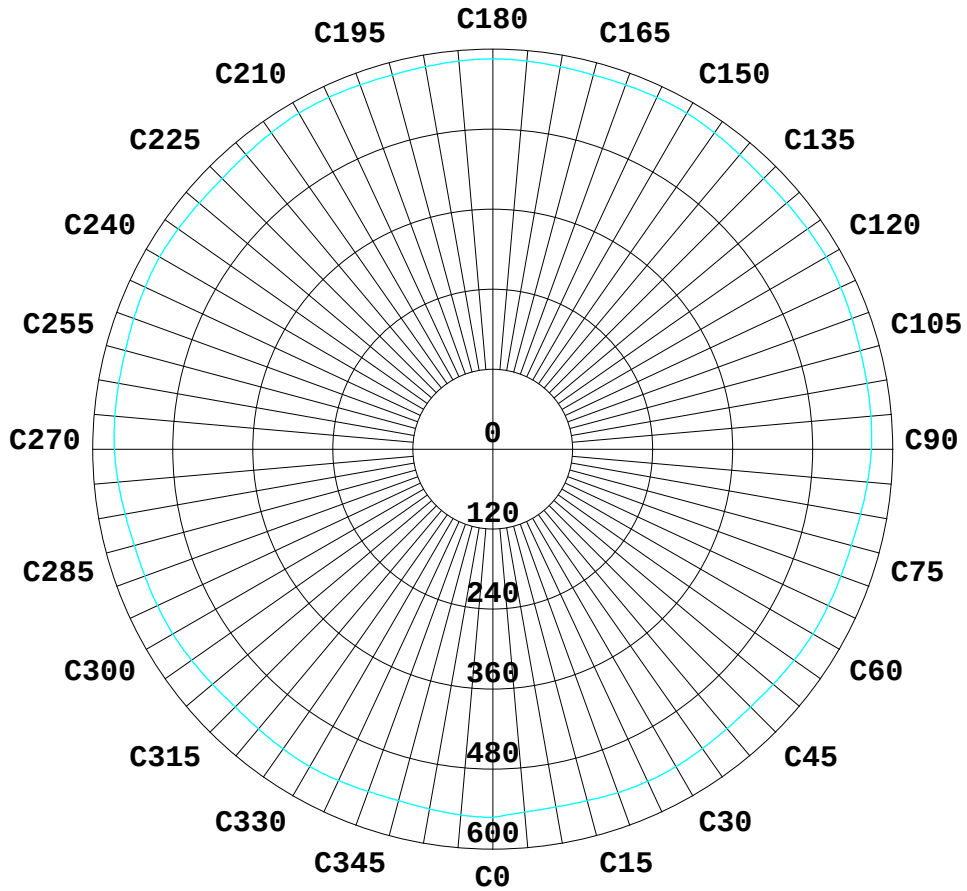
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022-12-02

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: Havit Lighting	Address:	
NAME: HV5841T-4K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HV5841T-4K	DIMENSION:	SERIAL No.:2013051602



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022-12-02

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: Havit Lighting	**Address:**	
NAME: HV5841T-4K	**TYPE:downlight**	**WEIGHT:0.5KG**
SPECIFICATION:HV5841T-4K	**DIMENSION:**	**SERIAL No.:2013051602**

UNIT: cd

C(DEG) / g (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210
0.0	546	544	545	544	545	543	543	540	541	535	535	532	533	532	535
5.0	545	540	539	536	537	535	537	536	539	537	541	542	547	542	541
10.0	552	546	547	544	548	548	553	555	559	559	566	569	575	569	566
15.0	550	543	548	545	554	556	569	571	578	574	582	580	584	580	582
20.0	512	504	514	511	525	524	541	539	548	538	544	535	541	535	544
25.0	420	409	422	417	435	430	448	441	453	441	452	440	450	440	452
30.0	288	276	291	284	304	299	320	313	329	317	331	319	330	319	331
35.0	123	134	123	137	149	151	169	168	183	176	185	175	180	175	185
40.0	58.9	52.4	59.1	52.7	60.5	55.1	65.0	60.7	71.6	64.9	72.6	63.1	68.2	63.1	72.6
45.0	30.4	26.3	30.9	26.4	31.2	27.1	32.3	28.4	34.1	29.4	34.1	28.6	32.1	28.6	34.1
50.0	17.3	14.1	17.5	14.2	17.5	14.4	17.9	14.7	18.3	14.6	17.9	14.6	17.5	14.6	17.9
55.0	12.0	9.47	12.2	9.53	12.0	9.47	12.0	9.34	12.0	9.21	11.8	9.28	11.8	9.28	11.8
60.0	9.21	6.91	9.28	6.97	9.28	7.04	9.15	6.72	8.89	6.59	8.89	6.84	9.02	6.84	8.89
65.0	7.10	5.18	7.16	5.24	7.16	5.18	7.10	5.05	7.04	4.99	6.91	4.99	6.97	4.99	6.91
70.0	5.82	4.22	5.88	4.22	5.88	4.22	5.88	4.22	5.95	4.22	5.88	4.16	5.82	4.16	5.88
75.0	5.31	3.84	5.31	3.84	5.37	3.90	5.37	3.90	5.37	3.90	5.37	3.90	5.31	3.90	5.37
80.0	4.99	3.64	4.99	3.71	4.99	3.77	5.05	3.77	5.05	3.77	5.05	3.71	4.99	3.71	5.05
85.0	4.54	3.39	4.54	3.45	4.60	3.45	4.60	3.45	4.67	3.45	4.67	3.45	4.60	3.45	4.67
90.0	3.96	3.26	3.96	3.26	4.03	3.32	4.03	3.32	4.03	3.32	4.03	3.26	3.96	3.26	4.03

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022-12-02

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: Havit Lighting	**Address:**	
NAME: HV5841T-4K	**TYPE:downlight**	**WEIGHT:0.5KG**
SPECIFICATION:HV5841T-4K	**DIMENSION:**	**SERIAL No.:2013051602**

UNIT: cd

C(DEG) / g (DEG)	225	240	255	270	285	300	315	330	345
0.0	535	541	540	543	543	545	544	545	544
5.0	537	539	536	537	535	537	536	539	540
10.0	559	559	555	553	548	548	544	547	546
15.0	574	578	571	569	556	554	545	548	543
20.0	538	548	539	541	524	525	511	514	504
25.0	441	453	441	448	430	435	417	422	409
30.0	317	329	313	320	299	304	284	291	276
35.0	176	183	168	169	151	149	137	123	134
40.0	64.9	71.6	60.7	65.0	55.1	60.5	52.7	59.1	52.4
45.0	29.4	34.1	28.4	32.3	27.1	31.2	26.4	30.9	26.3
50.0	14.6	18.3	14.7	17.9	14.4	17.5	14.2	17.5	14.1
55.0	9.21	12.0	9.34	12.0	9.47	12.0	9.53	12.2	9.47
60.0	6.59	8.89	6.72	9.15	7.04	9.28	6.97	9.28	6.91
65.0	4.99	7.04	5.05	7.10	5.18	7.16	5.24	7.16	5.18
70.0	4.22	5.95	4.22	5.88	4.22	5.88	4.22	5.88	4.22
75.0	3.90	5.37	3.90	5.37	3.90	5.37	3.84	5.31	3.84
80.0	3.77	5.05	3.77	5.05	3.77	4.99	3.71	4.99	3.64
85.0	3.45	4.67	3.45	4.60	3.45	4.60	3.45	4.54	3.39
90.0	3.32	4.03	3.32	4.03	3.32	4.03	3.26	3.96	3.26

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022-12-02

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks: