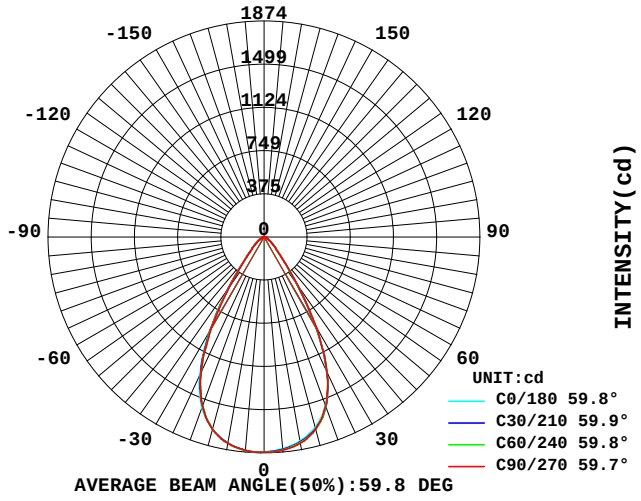
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

MANUFACTURER: Havit Lighting	Address:	
NAME: HV5844T-4K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HV5844T-4K	DIMENSION:	SERIAL No.:2013051602

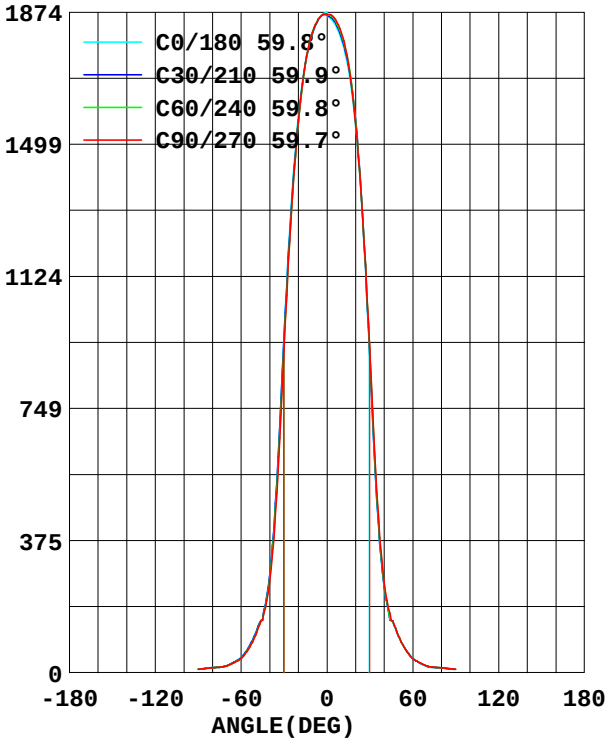
DATA OF LAMP		Imax(cd)	1874	S/MH(C0/180)	0.89
MODEL	HV5844T-4K	EFFICIENCY(%)	100.0	S/MH(C90/270)	0.88
NOMINAL POWER(W)	22	TOTAL FLUX(lm)	1796.9	Voltage(V)	229.3
RATED VOLTAGE(V)	220	EFFICIENCY(lm/W)	81.6	Current(A)	0.109
NOMINAL FLUX(lm)	1796.9	h up(%)	0.0	Power(W)	22.01
LAMPS QUANTITY	1	h down(%)	100.0	Power Factor(PF)	0.880
TEST VOLTAGE(V)	229.4	Effictive Flux(lm)	1604.5	EEI	0.187

LUMINOUS INTENSITY DISTRIBUTION



AVERAGE BEAM ANGLE(50%):59.8 DEG

LUMINOUS INTENSITY DISTRIBUTION



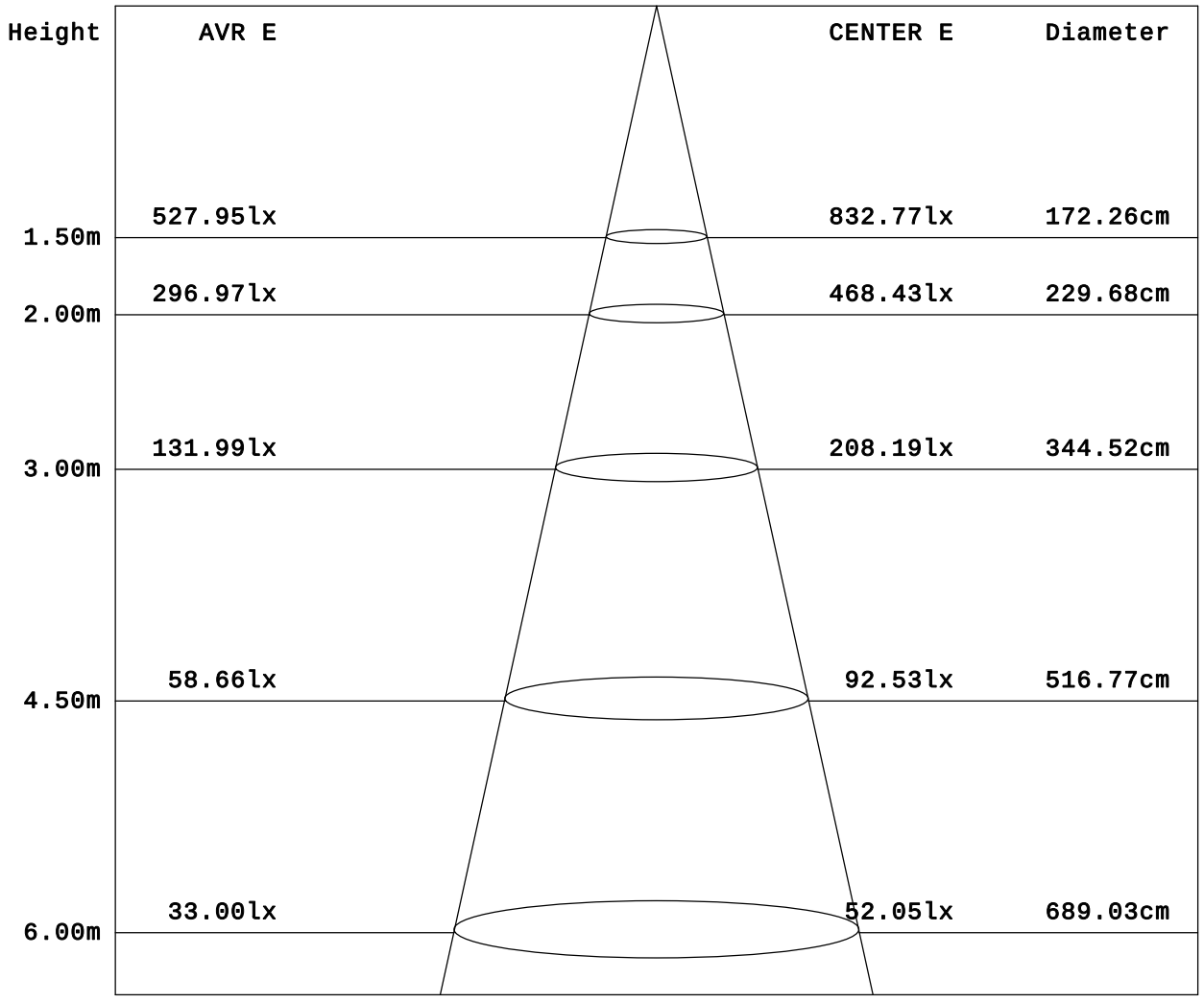
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022-12-02

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: HV5844T-4K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HV5844T-4K	DIMENSION:	SERIAL No.:2013051602



Angle:59.7deg

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: HV5844T-4K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HV5844T-4K	DIMENSION:	SERIAL No.:2013051602

g	C0	C45	C90	C135	C180	C225	C270	C315	g	zone	total
5.0	1858	1858	1858	1851	1844	1851	1858	1858	0- 5	44.49	44.49
10.0	1812	1814	1816	1805	1797	1805	1816	1814	5- 10	131.1	175.6
15.0	1732	1722	1730	1725	1713	1725	1730	1722	10- 15	209.9	385.5
20.0	1577	1552	1562	1563	1555	1563	1562	1552	15- 20	271.3	656.8
25.0	1318	1281	1288	1276	1279	1276	1288	1281	20- 25	300.2	957.0
30.0	956.0	919.1	916.4	884.6	889.1	884.6	916.4	919.1	25- 30	278.5	1236
35.0	539.1	519.5	508.8	473.9	484.6	473.9	508.8	519.5	30- 35	204.3	1440
40.0	271.3	256.8	255.8	233.8	243.5	233.8	255.8	256.8	35- 40	120.9	1561
45.0	150.7	154.3	148.6	147.0	147.5	147.0	148.6	154.3	40- 45	72.60	1633
50.0	111.7	100.0	104.7	97.27	105.1	97.27	104.7	100.0	45- 50	51.23	1685
55.0	70.40	61.43	64.83	59.64	66.04	59.64	64.83	61.43	50- 55	35.62	1720
60.0	43.58	37.18	39.61	35.90	40.51	35.90	39.61	37.18	55- 60	23.13	1743
65.0	28.99	25.40	27.26	24.25	27.20	24.25	27.26	25.40	60- 65	15.57	1759
70.0	19.71	16.51	18.62	15.48	17.85	15.48	18.62	16.51	65- 70	10.94	1770
75.0	15.23	13.37	15.29	12.92	14.59	12.92	15.29	13.37	70- 75	7.968	1778
80.0	13.82	12.16	13.82	11.71	13.18	11.71	13.82	12.16	75- 80	7.234	1785
85.0	11.83	10.24	11.77	9.792	11.07	9.792	11.77	10.24	80- 85	6.451	1792
90.0	9.087	8.320	9.408	8.448	9.344	8.448	9.408	8.320	85- 90	5.307	1797
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:

IES Flood Report
Photometric Filename:HV5844T-4K.IES

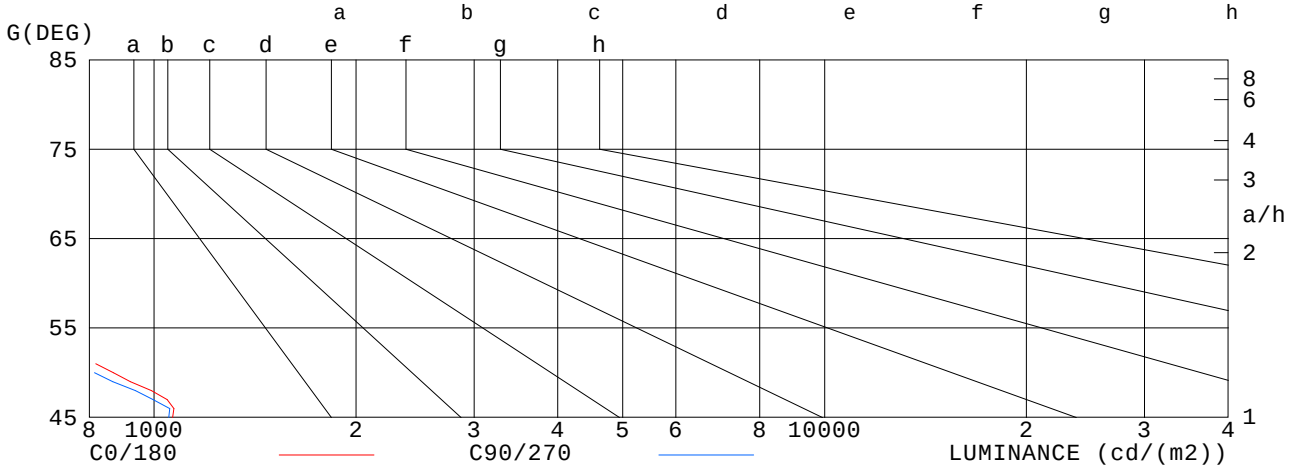
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER: Havit Lighting	**Address:**	
NAME: HV5844T-4K	**TYPE:downlight**	**WEIGHT:0.5KG**
SPECIFICATION:HV5844T-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	679	676
80	398	398
75	294	295
70	288	272
65	343	323
60	436	396
55	614	565
50	869	814
45	1066	1051

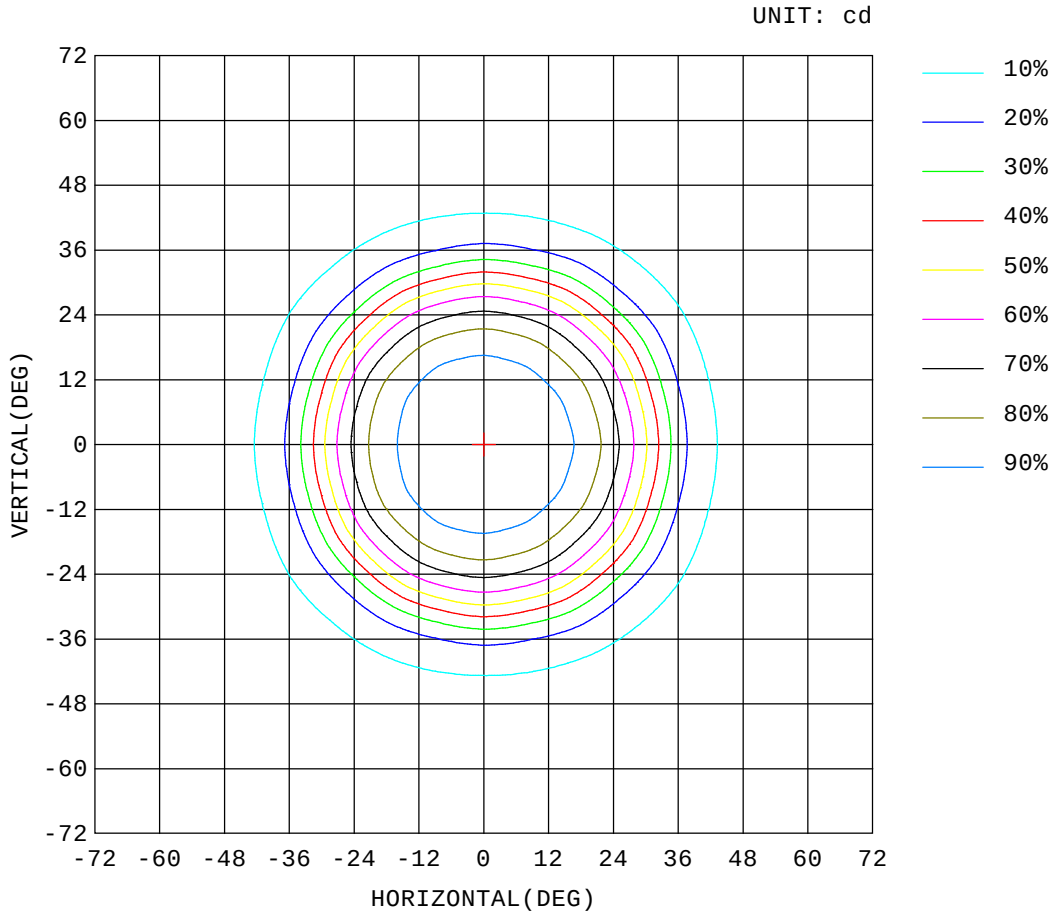
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022-12-02

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: HV5844T-4K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HV5844T-4K	DIMENSION:	SERIAL No.:2013051602



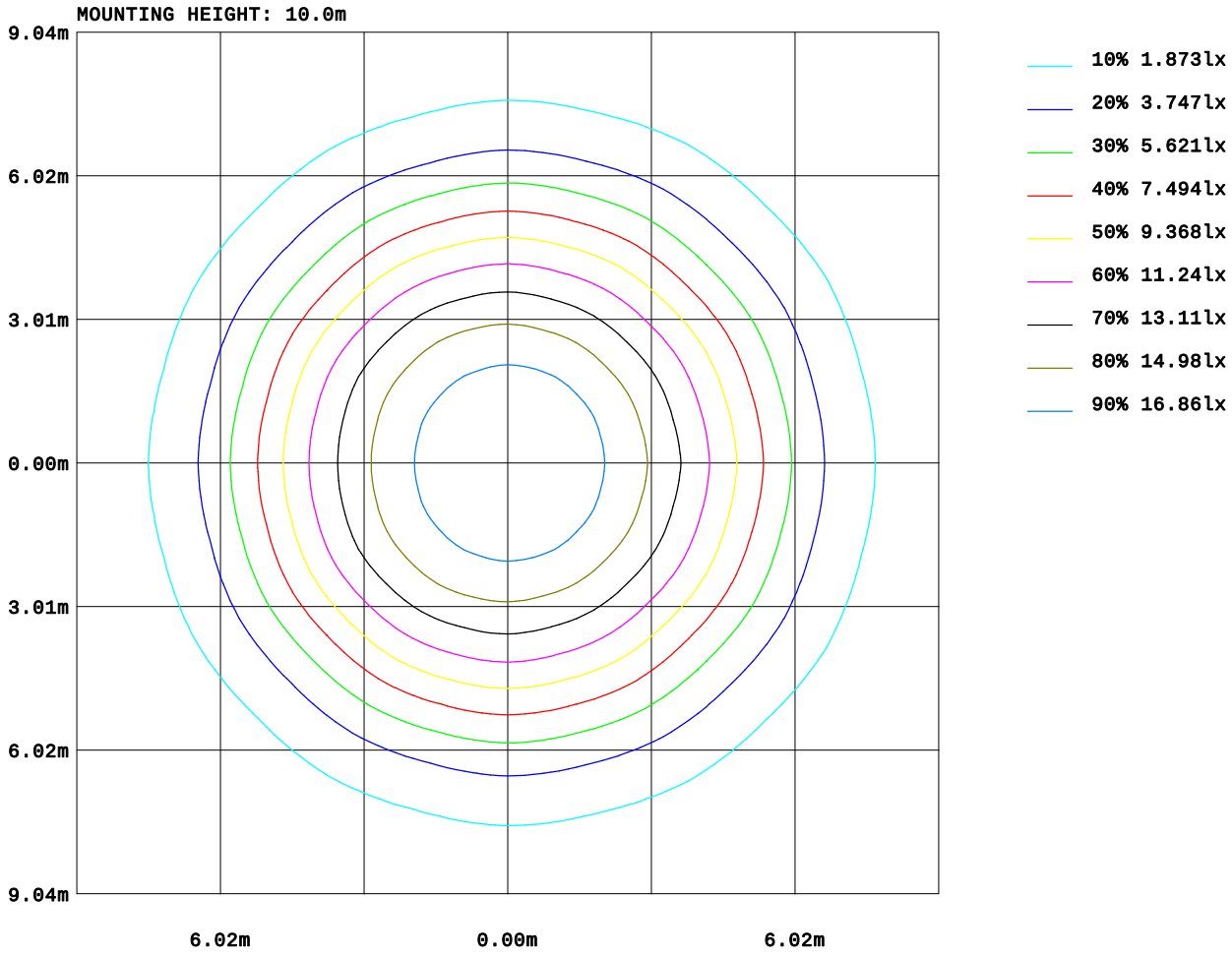
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022-12-02

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: HV5844T-4K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HV5844T-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: HV5844T-4K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HV5844T-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	0.08	0.13	0.16	0.19	0.24	0.30	0.33	0.36	0.41	0.42	0.37	0.35	0.32	0.25	0.20	0.17	0.14	0.09	4.50	0.00
64	0.09	0.14	0.19	0.25	0.37	0.52	0.61	0.67	0.77	0.78	0.68	0.61	0.52	0.38	0.27	0.20	0.14	0.09	7.28	0.00
56	0.09	0.15	0.26	0.40	0.59	0.91	1.22	1.43	1.65	1.65	1.44	1.23	0.93	0.61	0.42	0.28	0.16	0.10	13.5	0.00
48	0.10	0.18	0.36	0.62	1.03	1.66	2.32	2.89	3.34	3.35	2.94	2.37	1.70	1.06	0.65	0.38	0.20	0.10	25.3	4.22
40	0.10	0.22	0.48	0.98	1.72	2.73	4.48	6.73	8.53	8.64	7.00	4.79	2.91	1.78	1.02	0.50	0.24	0.11	53.0	40.7
32	0.12	0.27	0.62	1.38	2.53	5.10	10.4	16.5	19.9	20.0	16.8	11.1	5.63	2.72	1.46	0.66	0.29	0.13	116	107
24	0.13	0.32	0.78	1.73	3.80	9.84	19.0	26.3	29.6	29.5	26.3	19.5	10.7	4.24	1.84	0.82	0.34	0.15	185	178
	0.15	0.37	0.94	2.07	5.40	14.6	25.3	31.6	34.2	34.3	31.5	25.5	15.6	6.05	2.24	1.00	0.39	0.16	232	225
	0.16	0.41	1.05	2.33	6.70	17.4	27.8	33.4	35.7	35.9	33.6	28.1	18.3	7.48	2.53	1.11	0.43	0.17	253	247
	0.16	0.41	1.05	2.33	6.70	17.4	27.8	33.4	35.7	35.9	33.6	28.1	18.3	7.48	2.53	1.11	0.43	0.17	253	247
	0.15	0.37	0.94	2.07	5.40	14.6	25.3	31.6	34.2	34.3	31.5	25.5	15.6	6.05	2.24	1.00	0.39	0.16	232	225
-24	0.13	0.32	0.78	1.73	3.80	9.84	19.0	26.3	29.6	29.5	26.3	19.5	10.7	4.24	1.84	0.82	0.34	0.15	185	178
-32	0.12	0.27	0.62	1.38	2.53	5.10	10.4	16.5	19.9	20.0	16.8	11.1	5.63	2.72	1.46	0.66	0.29	0.13	116	107
-40	0.10	0.22	0.48	0.98	1.72	2.73	4.48	6.73	8.53	8.64	7.00	4.79	2.91	1.78	1.02	0.50	0.24	0.11	53.0	40.7
-48	0.10	0.18	0.36	0.62	1.03	1.66	2.32	2.89	3.34	3.35	2.94	2.37	1.70	1.06	0.65	0.38	0.20	0.10	25.3	4.22
-56	0.09	0.15	0.26	0.40	0.59	0.91	1.22	1.43	1.65	1.65	1.44	1.23	0.93	0.61	0.42	0.28	0.16	0.10	13.5	0.00
-64	0.09	0.14	0.19	0.25	0.37	0.52	0.61	0.67	0.77	0.78	0.68	0.61	0.52	0.38	0.27	0.20	0.14	0.09	7.28	0.00
-72	0.08	0.13	0.16	0.19	0.24	0.30	0.33	0.36	0.41	0.42	0.37	0.35	0.32	0.25	0.20	0.17	0.14	0.09	4.50	0.00
F t	2.03	4.35	9.68	19.9	44.7	106	184	240	269	269	242	187	114	49.2	21.2	10.2	4.67	2.20	1797	
F a	0.00	0.00	0.00	2.13	31.7	95.1	173	231	259	260	232	177	103	36.8	3.63	0.00	0.00	0.00		1605

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

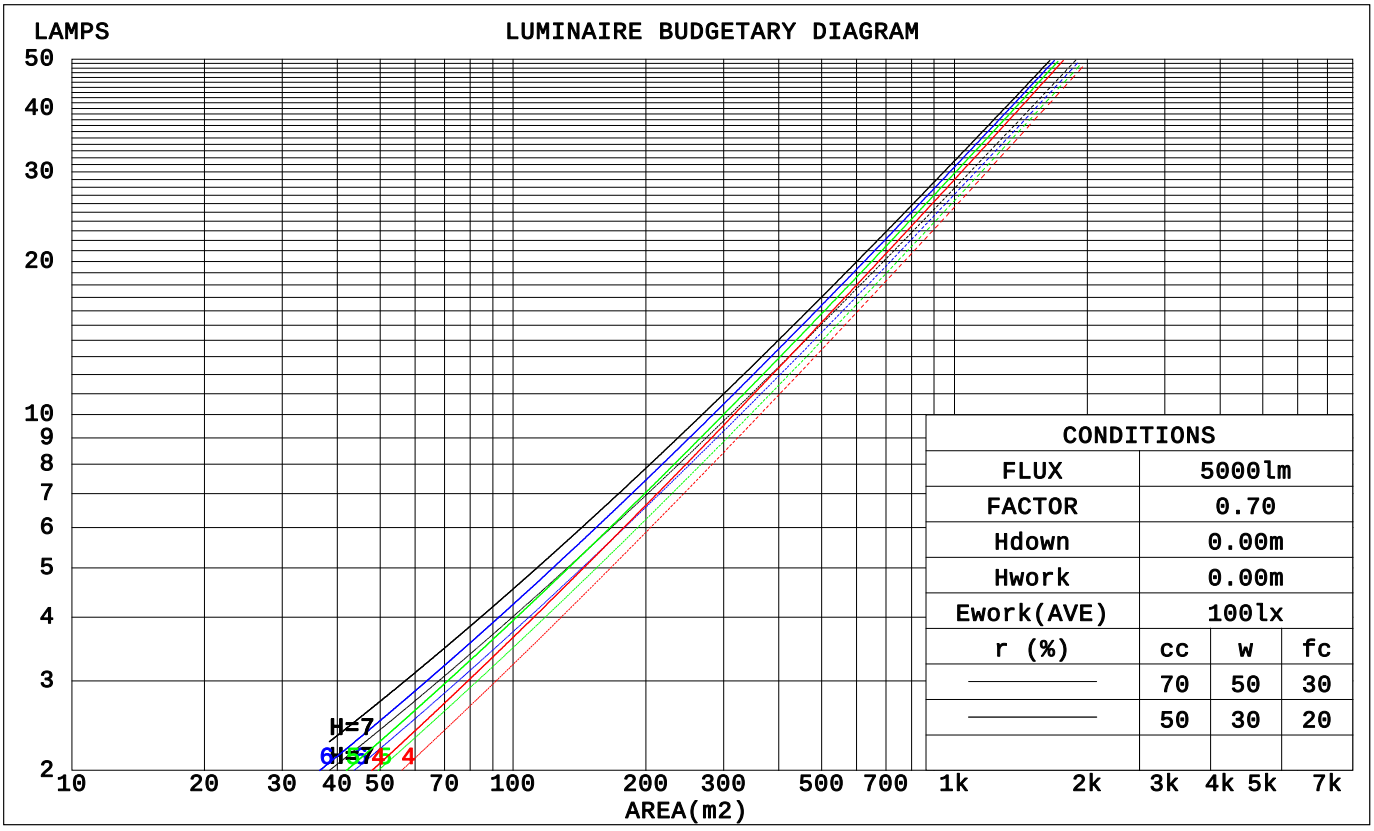
Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER: Havit Lighting	Address:	
NAME: HV5844T-4K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HV5844T-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	.00	.00	.98	.97	.96	.95	.94	.92
2.0	1.02	.97	.94	.00	.96	.93	.97	.93	.90	.94	.91	.89	.91	.89	.87	.85
3.0	.94	.89	.85	.93	.88	.84	.90	.86	.83	.88	.84	.81	.85	.83	.80	.78
4.0	.88	.82	.77	.87	.81	.77	.84	.80	.76	.82	.78	.75	.80	.77	.74	.73
5.0	.82	.76	.71	.81	.75	.71	.79	.74	.70	.77	.73	.70	.76	.72	.69	.67
6.0	.77	.70	.66	.76	.70	.66	.74	.69	.65	.73	.68	.65	.72	.67	.64	.63
7.0	.72	.66	.61	.71	.65	.61	.70	.65	.61	.69	.64	.60	.68	.63	.60	.59
8.0	.68	.61	.57	.67	.61	.57	.66	.61	.57	.65	.60	.57	.64	.60	.56	.55
9.0	.64	.58	.54	.63	.57	.53	.62	.57	.53	.61	.57	.53	.61	.56	.53	.52
10.0	.60	.54	.50	.60	.54	.50	.59	.54	.50	.58	.53	.50	.57	.53	.50	.48



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: HV5844T-4K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HV5844T-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	.195	.111	.035	.189	.108	.034	.176	.101	.032	.164	.095	.030	.153	.089	.029	
2.0	.185	.101	.031	.179	.099	.030	.168	.094	.029	.158	.089	.028	.149	.084	.027	
3.0	.175	.093	.028	.170	.091	.027	.160	.087	.026	.152	.083	.026	.144	.080	.025	
4.0	.165	.086	.025	.161	.084	.025	.153	.081	.024	.146	.078	.024	.139	.075	.023	
5.0	.156	.080	.023	.153	.078	.023	.146	.076	.022	.139	.074	.022	.133	.071	.021	
6.0	.149	.075	.021	.145	.073	.021	.139	.071	.021	.134	.069	.020	.128	.067	.020	
7.0	.141	.070	.020	.139	.069	.020	.133	.067	.019	.128	.066	.019	.123	.064	.019	
8.0	.135	.066	.019	.132	.065	.018	.127	.064	.018	.123	.062	.018	.119	.061	.018	
9.0	.129	.062	.017	.127	.062	.017	.122	.060	.017	.118	.059	.017	.114	.058	.017	
10.0	.123	.059	.016	.121	.059	.016	.117	.057	.016	.114	.056	.016	.110	.055	.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	.143	.148	.135	.123	.101	.093	.085	.058	.054	.050	.019	.017	.016	
2.0	.158	.132	.111	.135	.114	.096	.093	.079	.067	.053	.046	.039	.017	.015	.013	
3.0	.146	.114	.088	.125	.098	.076	.086	.068	.053	.050	.040	.031	.016	.013	.010	
4.0	.136	.099	.071	.117	.086	.062	.080	.060	.043	.046	.035	.026	.015	.011	.008	
5.0	.128	.088	.058	.110	.076	.051	.075	.053	.036	.044	.031	.021	.014	.010	.007	
6.0	.120	.078	.048	.103	.068	.042	.071	.048	.030	.041	.028	.018	.013	.009	.006	
7.0	.114	.071	.041	.098	.062	.036	.068	.043	.025	.039	.025	.015	.013	.008	.005	
8.0	.108	.065	.035	.093	.056	.031	.064	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.103	.060	.031	.089	.052	.027	.061	.036	.019	.036	.022	.011	.012	.007	.004	
10.0	.098	.055	.027	.085	.048	.023	.059	.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: HV5844T-4K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HV5844T-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	9.0	10.0	9.2	10.1	10.3	8.7	9.7	8.9	9.9	10.1
3H	9.0	10.0	9.3	10.2	10.4	8.8	9.7	9.0	9.9	10.1
4H	9.1	10.0	9.4	10.2	10.4	8.8	9.7	9.1	9.9	10.1
6H	9.2	10.0	9.5	10.3	10.5	9.0	9.8	9.3	10.0	10.3
8H	9.3	10.1	9.6	10.4	10.6	9.1	9.9	9.4	10.2	10.4
12H	9.5	10.3	9.8	10.6	10.8	9.3	10.1	9.6	10.3	10.6
4H 2H	8.9	9.7	9.1	10.0	10.2	8.6	9.5	8.9	9.7	10.0
3H	9.0	9.8	9.3	10.1	10.3	8.8	9.5	9.1	9.8	10.1
4H	9.1	9.8	9.5	10.1	10.4	8.9	9.6	9.3	9.9	10.2
6H	9.4	10.0	9.8	10.3	10.7	9.2	9.8	9.6	10.1	10.5
8H	9.6	10.2	10.0	10.5	10.9	9.4	10.0	9.8	10.3	10.7
12H	9.9	10.4	10.3	10.8	11.2	9.7	10.3	10.1	10.6	11.0
8H 4H	9.1	9.7	9.5	10.1	10.4	8.9	9.5	9.3	9.8	10.2
6H	9.5	10.0	10.0	10.4	10.8	9.4	9.8	9.8	10.2	10.6
8H	9.9	10.3	10.3	10.7	11.2	9.7	10.1	10.2	10.5	11.0
12H	10.4	10.7	10.8	11.2	11.6	10.2	10.6	10.7	11.0	11.5
12H 4H	9.1	9.6	9.5	10.0	10.4	8.9	9.4	9.3	9.8	10.2
6H	9.6	10.0	10.0	10.4	10.9	9.4	9.8	9.9	10.2	10.7
8H	10.0	10.4	10.5	10.8	11.3	9.8	10.2	10.3	10.6	11.1
Variations with the observer position at spacings:										
S = 1.0H	+ 1.6 / - 1.6					+ 1.5 / - 1.6				
1.5H	+ 2.7 / - 1.3					+ 2.5 / - 1.2				
2.0H	+ 1.8 / - 1.1					+ 1.8 / - 1.0				

CIE Pub.117 Corrected 1797 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: HV5844T-4K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HV5844T-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	83	76	72	83	76	72	82	76	72	68
0.80	91	85	80	90	84	80	89	84	80	76
1.00	96	90	86	95	90	86	94	90	85	81
1.25	101	95	91	100	94	91	98	93	90	85
1.50	104	98	95	102	98	94	100	96	93	88
2.00	107	102	99	105	101	98	103	99	96	91
2.50	109	104	101	107	103	100	104	101	98	92
3.00	111	107	104	109	105	103	105	103	100	94
4.00	113	110	107	111	108	106	107	105	103	96
5.00	114	111	109	112	110	108	108	106	105	97
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

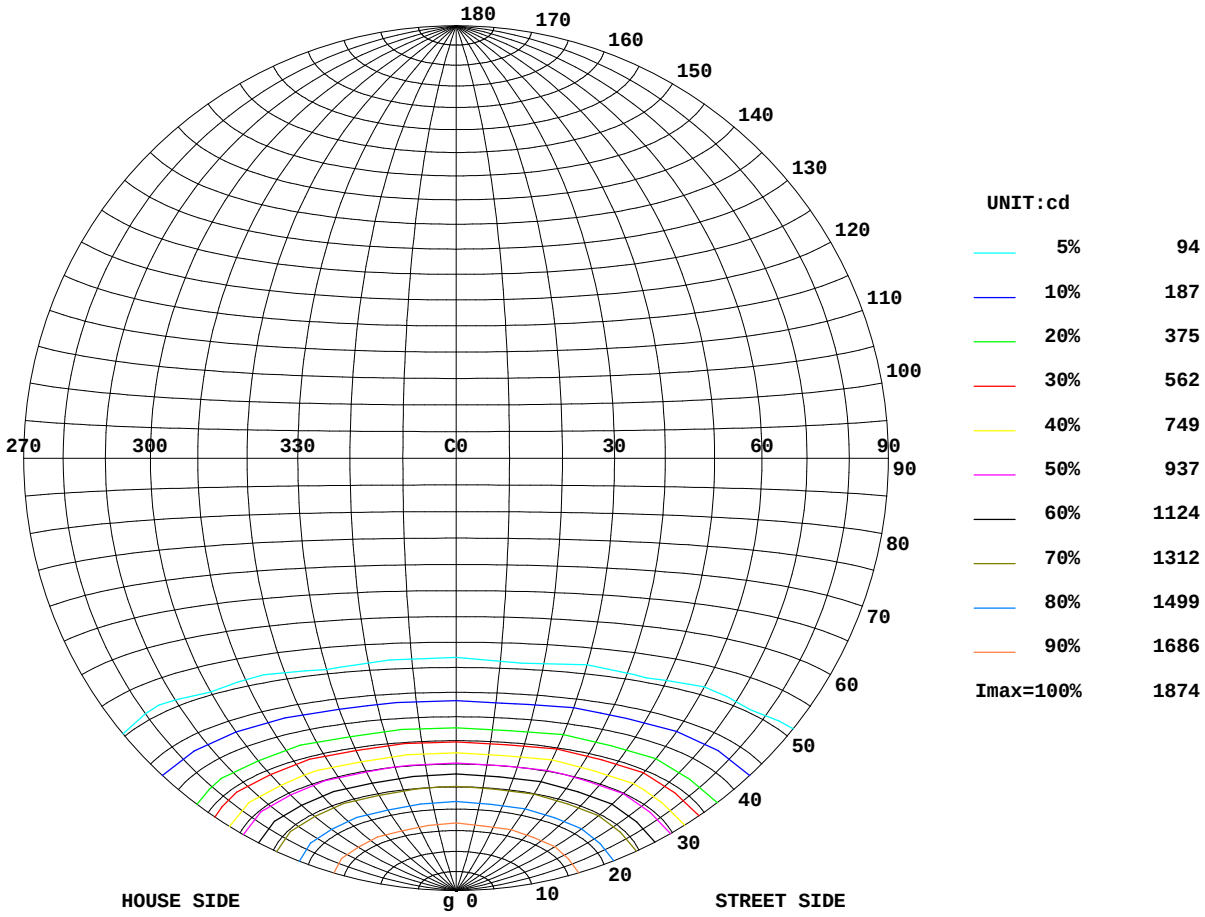
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022-12-02

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: HV5844T-4K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HV5844T-4K	DIMENSION:	SERIAL No.:2013051602



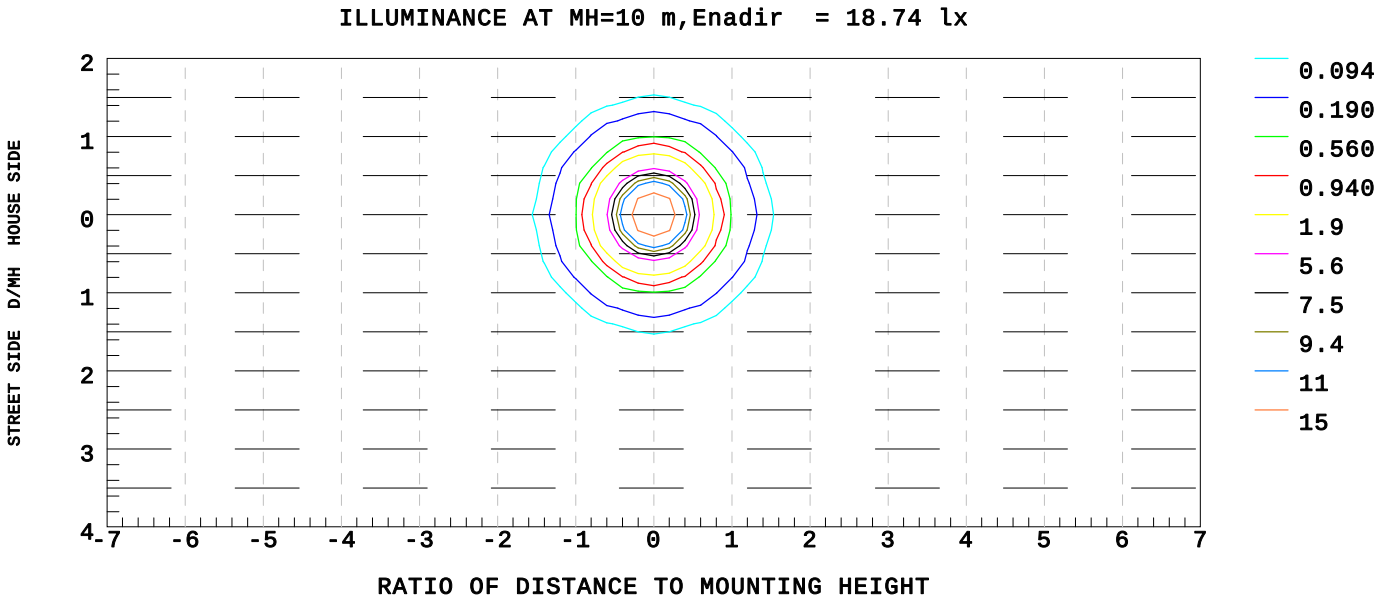
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022-12-02

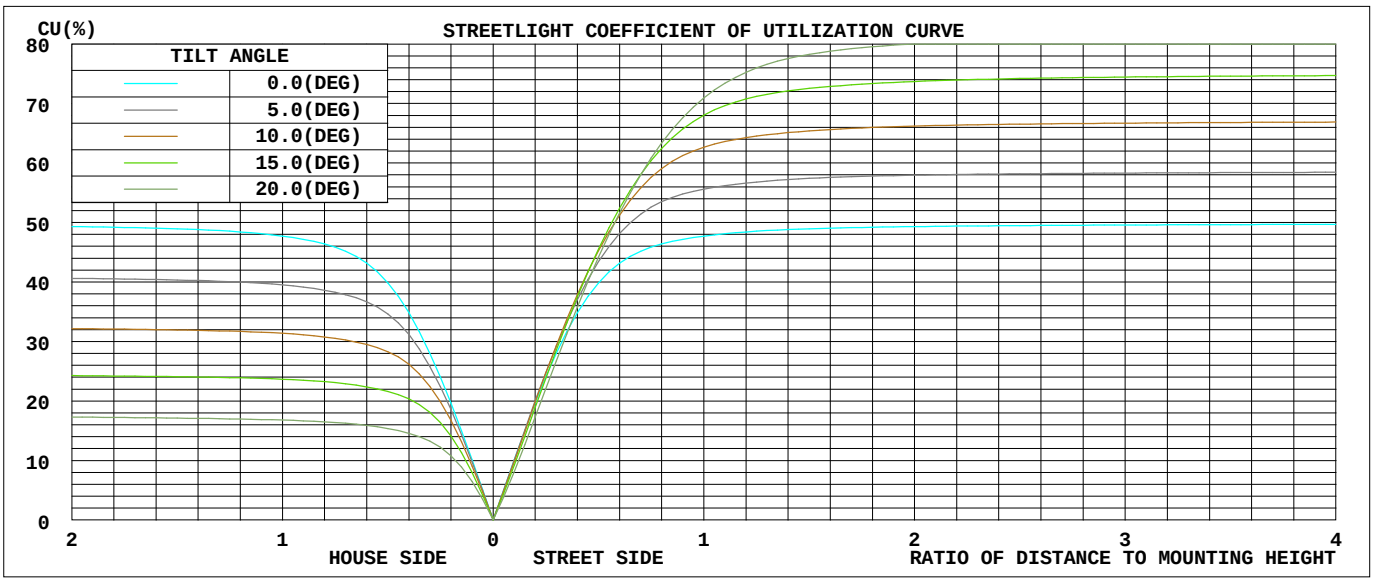
Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER: Havit Lighting	Address:	
NAME: HV5844T-4K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HV5844T-4K	DIMENSION:	SERIAL No.:2013051602





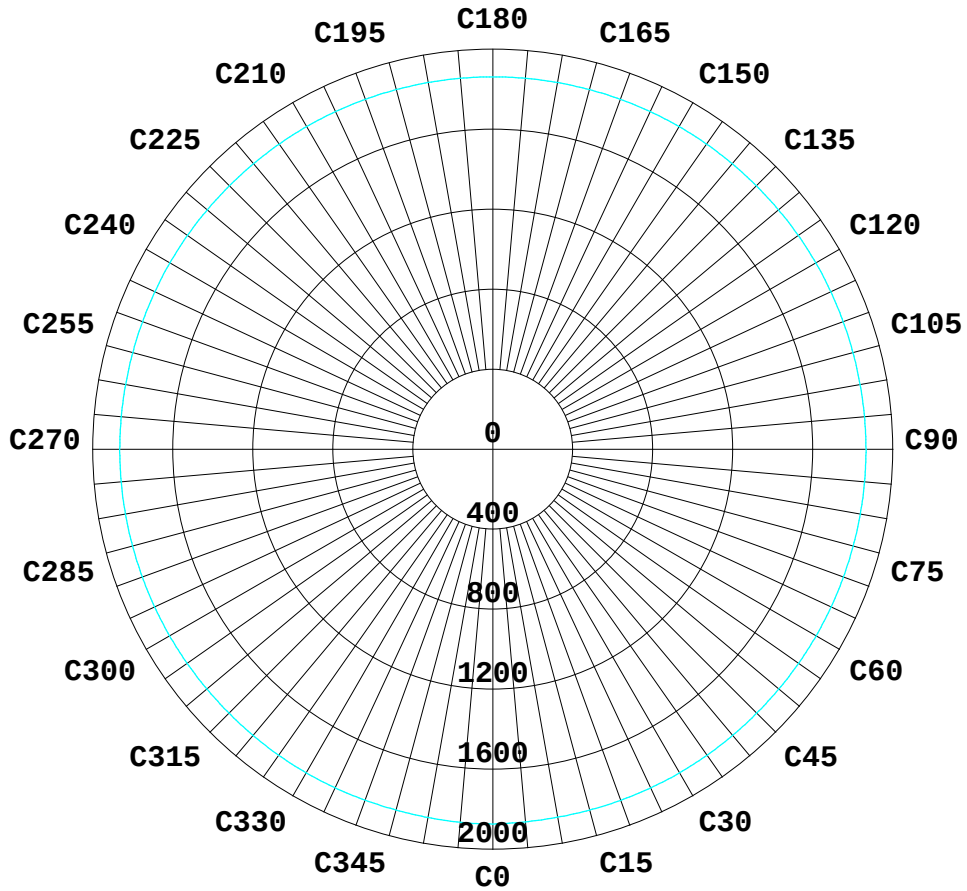
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022-12-02

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

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: Havit Lighting	Address:	
NAME: HV5844T-4K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HV5844T-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: HV5844T-4K	**TYPE:downlight**	**WEIGHT:0.5KG**
SPECIFICATION:HV5844T-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	1874	1868	1868	1866	1866	1865	1866	1864	1865	1863	1863	1862	1862	1862	1863
5.0	1858	1856	1859	1858	1860	1858	1858	1855	1855	1851	1850	1845	1844	1845	1850
10.0	1812	1809	1815	1814	1818	1815	1816	1811	1811	1805	1805	1798	1797	1798	1805
15.0	1732	1724	1728	1722	1728	1723	1730	1727	1732	1725	1725	1714	1713	1714	1725
20.0	1577	1562	1566	1552	1559	1551	1562	1557	1569	1563	1572	1556	1555	1556	1572
25.0	1318	1297	1303	1281	1290	1274	1288	1275	1290	1276	1288	1270	1279	1270	1288
30.0	956	936	948	919	929	903	916	893	909	885	898	873	889	873	898
35.0	539	527	544	520	527	500	509	485	497	474	487	468	485	468	487
40.0	271	262	273	257	264	248	256	241	248	234	243	232	244	232	243
45.0	151	157	150	154	149	151	149	149	149	147	147	146	148	146	147
50.0	112	103	110	100	106	97.4	105	96.8	105	97.2	105	97.0	105	97.0	105
55.0	70.4	63.6	68.6	61.4	66.0	59.4	64.8	59.0	65.0	59.6	65.5	60.0	66.0	60.0	65.5
60.0	43.5	38.5	42.3	37.1	40.7	35.7	39.6	35.5	40.0	35.9	40.3	36.0	40.5	36.0	40.3
65.0	28.9	25.7	29.1	25.4	27.9	24.2	27.2	24.1	27.6	24.2	27.3	23.9	27.2	23.9	27.3
70.0	19.7	16.8	19.3	16.5	19.0	16.0	18.6	15.7	18.0	15.4	18.1	15.4	17.8	15.4	18.1
75.0	15.2	13.3	15.4	13.3	15.4	13.3	15.2	13.1	15.0	12.9	14.7	12.6	14.5	12.6	14.7
80.0	13.8	12.0	13.9	12.1	14.0	12.0	13.8	11.9	13.6	11.7	13.3	11.4	13.1	11.4	13.3
85.0	11.8	10.1	11.8	10.2	11.8	10.1	11.7	10.0	11.5	9.79	11.3	9.66	11.0	9.66	11.3
90.0	9.08	8.19	9.21	8.32	9.34	8.44	9.40	8.51	9.40	8.44	9.40	8.44	9.34	8.44	9.40

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: HV5844T-4K	**TYPE:downlight**	**WEIGHT:0.5KG**
SPECIFICATION:HV5844T-4K	**DIMENSION:**	**SERIAL No.:2013051602**

UNIT: cd

C(DEG) / g (DEG)	225	240	255	270	285	300	315	330	345
0.0	1863	1865	1864	1866	1865	1866	1866	1868	1868
5.0	1851	1855	1855	1858	1858	1860	1858	1859	1856
10.0	1805	1811	1811	1816	1815	1818	1814	1815	1809
15.0	1725	1732	1727	1730	1723	1728	1722	1728	1724
20.0	1563	1569	1557	1562	1551	1559	1552	1566	1562
25.0	1276	1290	1275	1288	1274	1290	1281	1303	1297
30.0	885	909	893	916	903	929	919	948	936
35.0	474	497	485	509	500	527	520	544	527
40.0	234	248	241	256	248	264	257	273	262
45.0	147	149	149	149	151	149	154	150	157
50.0	97.2	105	96.8	105	97.4	106	100	110	103
55.0	59.6	65.0	59.0	64.8	59.4	66.0	61.4	68.6	63.6
60.0	35.9	40.0	35.5	39.6	35.7	40.7	37.1	42.3	38.5
65.0	24.2	27.6	24.1	27.2	24.2	27.9	25.4	29.1	25.7
70.0	15.4	18.0	15.7	18.6	16.0	19.0	16.5	19.3	16.8
75.0	12.9	15.0	13.1	15.2	13.3	15.4	13.3	15.4	13.3
80.0	11.7	13.6	11.9	13.8	12.0	14.0	12.1	13.9	12.0
85.0	9.79	11.5	10.0	11.7	10.1	11.8	10.2	11.8	10.1
90.0	8.44	9.40	8.51	9.40	8.44	9.34	8.32	9.21	8.19

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: