

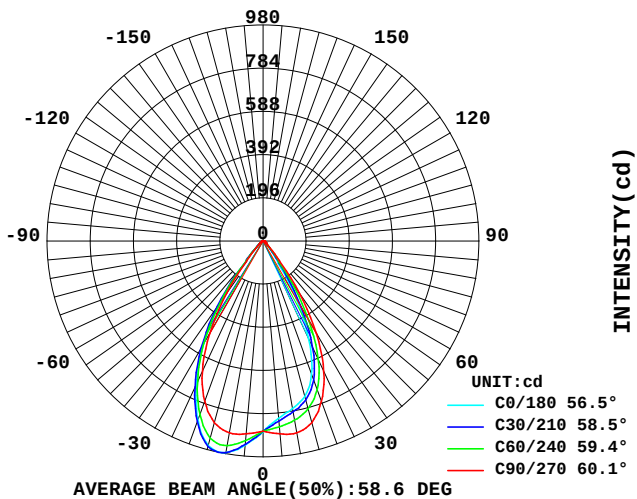
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number: 2022120102

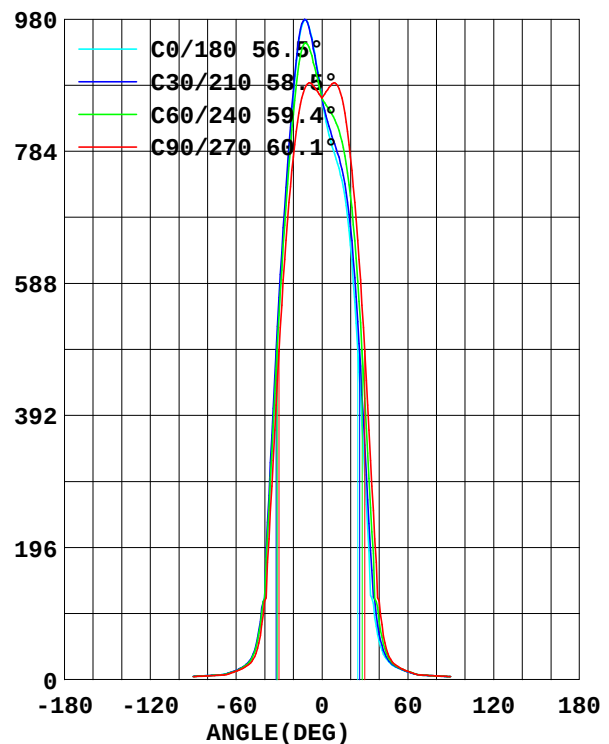
MANUFACTURER: Havit Commercial	Address:	
NAME: HCP-8922124-3K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HCP-8922124-3K	DIMENSION: 0.5M	SERIAL No.:2013051603

DATA OF LAMP		Imax(cd)	980.8	S/MH(C0/180)	0.95
MODEL	HCP-8922124-3K	EFFICIENCY(%)	100.0	S/MH(C90/270)	0.92
NOMINAL POWER(W)	12	TOTAL FLUX(lm)	840.48	Voltage(V)	225.8
RATED VOLTAGE(V)	226	EFFICIENCY(lm/W)	72.5	Current(A)	0.057
NOMINAL FLUX(lm)	840.5	h up(%)	0.0	Power(W)	11.60
LAMPS QUANTITY	1	h down(%)	100.0	Power Factor(PF)	0.894
TEST VOLTAGE(V)	225.8	Effective Flux(lm)	772.7	EEI	0.186

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



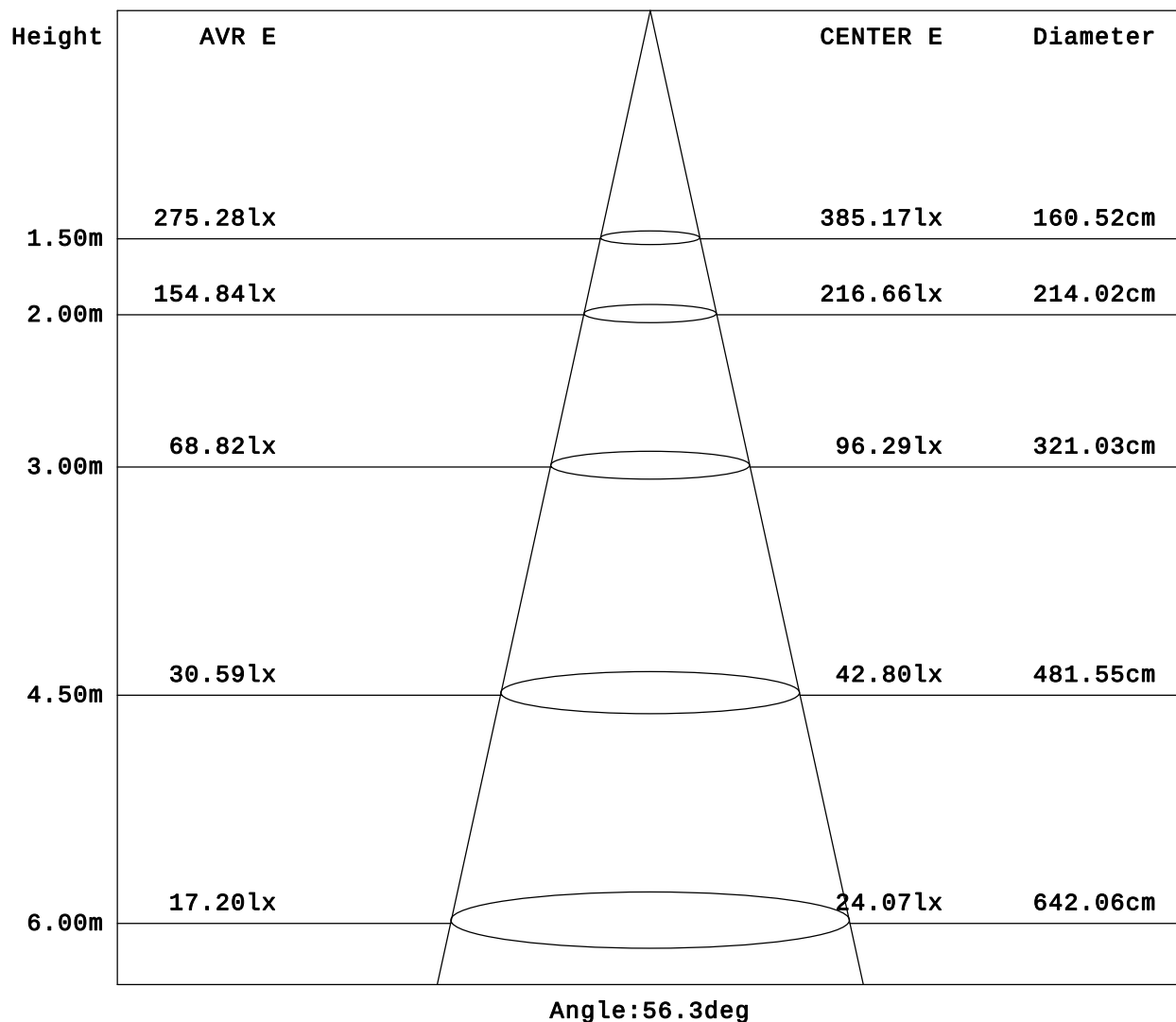
Test System:HOP00 HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2022-12-01

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: 2022120102

MANUFACTURER: Havit Commercial	Address:	
NAME: HCP-8922124-3K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HCP-8922124-3K	DIMENSION: 0.5M	SERIAL No.:2013051603



Test System:HOP00 HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2022-12-01

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

ZONAL FLUX DIAGRAM

Report number: 2022120102

MANUFACTURER: Havit Commercial	Address:	
NAME: HCP-8922124-3K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HCP-8922124-3K	DIMENSION: 0.5M	SERIAL No.:2013051603

g	C0	C45	C90	C135	C180	C225	C270	C315	g	Zone	Total
5.0	929.0	917.8	878.2	829.2	808.0	829.2	878.2	917.8	0- 5	20.79	20.79
10.0	975.4	960.9	883.4	799.7	771.5	799.7	883.4	960.9	5- 10	62.86	83.65
15.0	960.5	946.7	853.5	760.0	730.3	760.0	853.5	946.7	10- 15	103.0	186.7
20.0	864.7	852.9	775.1	684.0	644.4	684.0	775.1	852.9	15- 20	133.8	320.6
25.0	715.6	709.3	651.5	546.3	489.6	546.3	651.5	709.3	20- 25	147.1	467.7
30.0	544.5	543.3	486.7	366.4	303.3	366.4	486.7	543.3	25- 30	137.5	605.3
35.0	335.4	339.0	287.2	177.8	120.7	177.8	287.2	339.0	30- 35	104.7	710.1
40.0	121.0	140.0	116.6	66.81	56.63	66.81	116.6	140.0	35- 40	59.41	769.5
45.0	58.23	52.60	46.27	30.97	31.04	30.97	46.27	52.60	40- 45	25.48	795.0
50.0	28.73	24.44	24.57	18.36	20.48	18.36	24.57	24.44	45- 50	12.65	807.6
55.0	18.62	15.42	17.08	13.12	15.29	13.12	17.08	15.42	50- 55	8.254	815.9
60.0	13.12	10.30	12.41	9.344	11.52	9.344	12.41	10.30	55- 60	6.122	822.0
65.0	9.728	7.168	8.384	6.208	8.127	6.208	8.384	7.168	60- 65	4.570	826.6
70.0	7.360	5.184	6.656	4.736	6.528	4.736	6.656	5.184	65- 70	3.350	829.9
75.0	6.464	4.608	6.144	4.416	6.080	4.416	6.144	4.608	70- 75	2.915	832.8
80.0	5.952	4.288	5.568	4.096	5.504	4.096	5.568	4.288	75- 80	2.754	835.6
85.0	5.440	3.904	4.928	3.584	4.864	3.584	4.928	3.904	80- 85	2.525	838.1
90.0	4.800	3.840	4.352	3.584	4.416	3.584	4.352	3.840	85- 90	2.315	840.4
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	

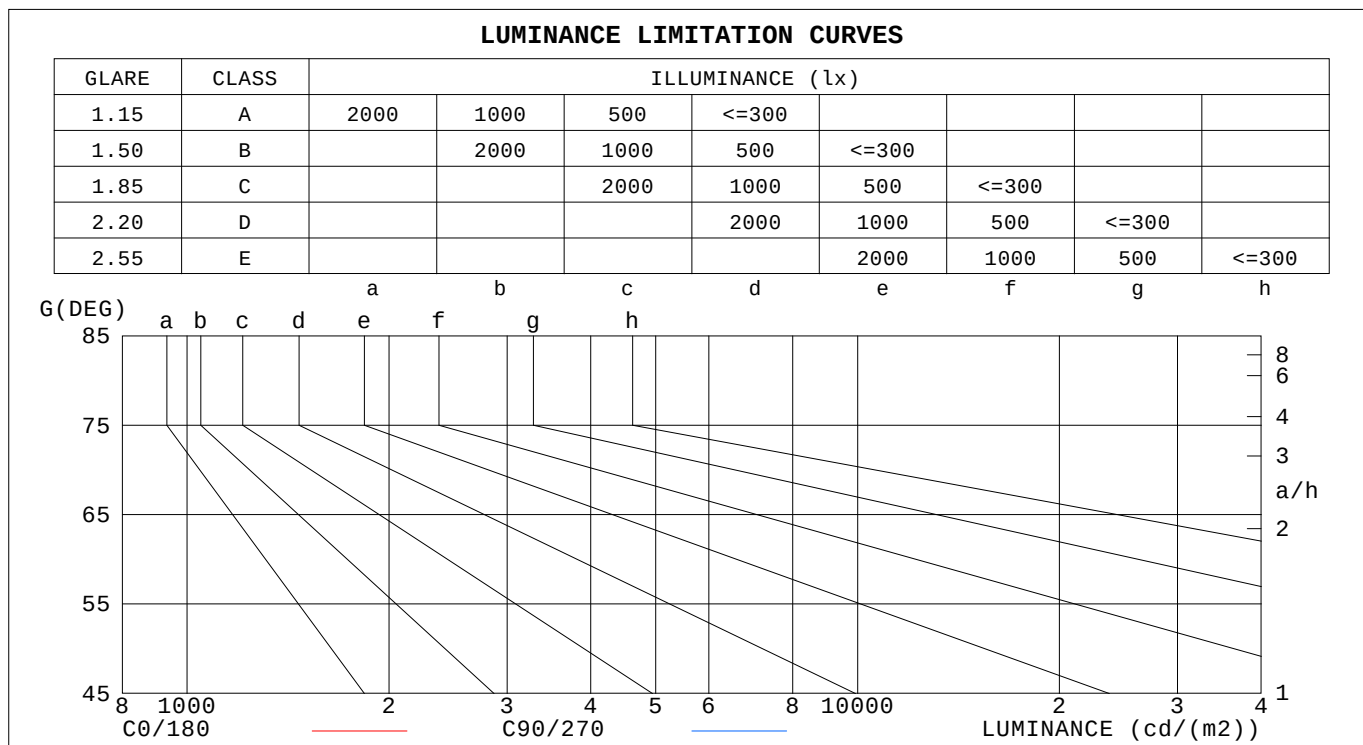
Test System:HOP00 HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022-12-01

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

LUMINANCE LIMITATION CURVES

Report number: 2022120102

MANUFACTURER: Havit Commercial	Address:	
NAME: HCP-8922124-3K	TYPE: downlight	WEIGHT: 0.5KG
SPECIFICATION: HCP-8922124-3K	DIMENSION: 0.5M	SERIAL No.: 2013051603



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	312	283
80	171	160
75	125	119
70	108	97
65	115	99
60	131	124
55	162	149
50	224	191
45	412	327

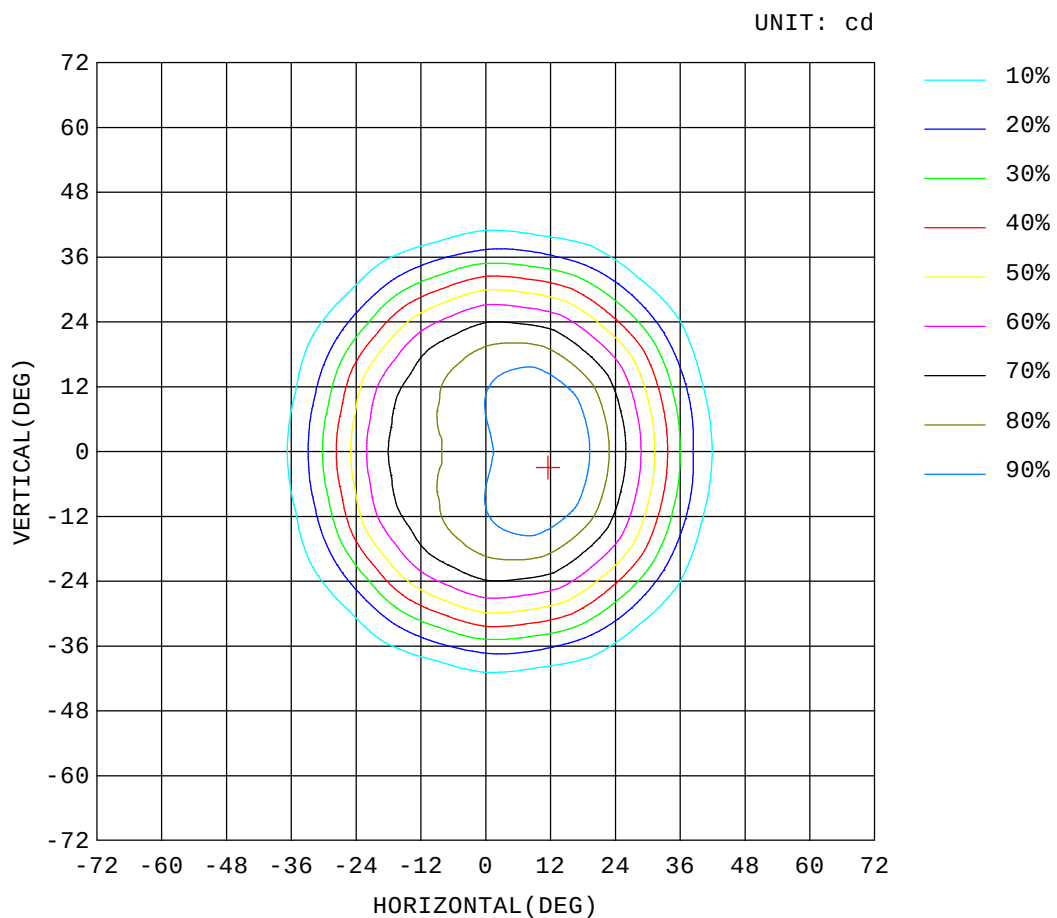
Test System:HOP00 HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2022-12-01

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

ISOCANDELA DIAGRAM

Report number: 2022120102

MANUFACTURER: Havit Commercial	Address:	
NAME: HCP-8922124-3K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HCP-8922124-3K	DIMENSION: 0.5M	SERIAL No.:2013051603



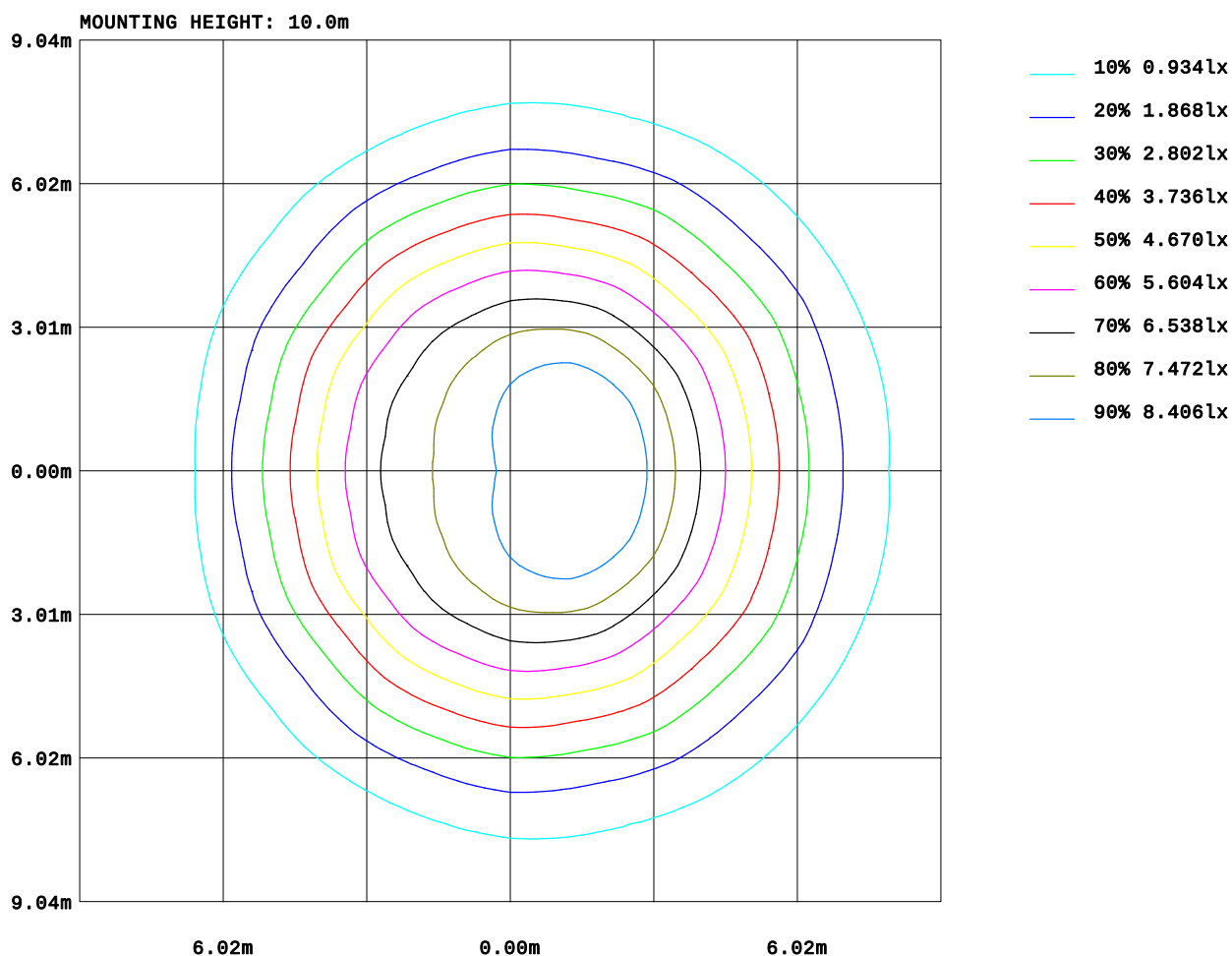
Test System:HOP00 HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022-12-01

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

ISOLUX DIAGRAM

Report number: 2022120102

MANUFACTURER: Havit Commercial	Address:	
NAME: HCP-8922124-3K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HCP-8922124-3K	DIMENSION: 0.5M	SERIAL No.:2013051603



Test System:HOP00 HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2022-12-01

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

AREA LUMINOUS FLUX

Report number: 2022120102

MANUFACTURER: Havit Commercial	Address:	
NAME: HCP-8922124-3K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HCP-8922124-3K	DIMENSION: 0.5M	SERIAL No.:2013051603

72	AREA FLUX DIAGRAM																		UNIT:lm		F t	F a
	0.03	0.05	0.06	0.07	0.09	0.11	0.11	0.10	0.13	0.13	0.11	0.11	0.11	0.09	0.07	0.07	0.06	0.04	1.52	0.00		
64	0.03	0.06	0.07	0.08	0.10	0.16	0.18	0.18	0.22	0.22	0.18	0.18	0.17	0.12	0.08	0.08	0.06	0.04	2.20	0.00		
56	0.03	0.06	0.08	0.11	0.16	0.24	0.29	0.32	0.39	0.40	0.34	0.32	0.26	0.17	0.13	0.09	0.06	0.04	3.48	0.00		
48	0.03	0.06	0.11	0.16	0.22	0.35	0.55	0.75	1.05	1.14	0.94	0.73	0.45	0.27	0.19	0.13	0.06	0.04	7.23	0.31		
40	0.04	0.06	0.13	0.22	0.34	0.66	1.48	2.91	4.37	4.82	4.05	2.53	1.11	0.49	0.28	0.15	0.07	0.04	23.7	18.6		
32	0.04	0.07	0.14	0.28	0.60	1.60	4.37	7.77	10.0	10.6	9.64	6.99	3.45	1.10	0.39	0.18	0.08	0.04	57.4	53.8		
24	0.04	0.08	0.16	0.33	1.00	3.53	8.00	11.9	14.2	15.1	14.2	11.1	6.86	2.30	0.56	0.20	0.10	0.05	90.0	87.3		
VERTICAL (DEG)	0.05	0.10	0.19	0.40	1.44	5.39	10.5	13.9	16.0	17.6	17.3	14.2	9.25	3.78	0.79	0.25	0.11	0.05	112	109		
	0.05	0.11	0.21	0.49	1.79	6.35	11.5	14.3	16.0	17.9	18.4	15.5	10.3	4.57	1.00	0.29	0.13	0.06	119	117		
	0.05	0.11	0.21	0.49	1.79	6.35	11.5	14.3	16.0	17.9	18.4	15.5	10.3	4.57	1.00	0.29	0.13	0.06	119	117		
	0.05	0.10	0.19	0.40	1.44	5.39	10.5	13.9	16.0	17.6	17.3	14.2	9.25	3.78	0.79	0.25	0.11	0.05	112	109		
	0.04	0.08	0.16	0.33	1.00	3.53	8.00	11.9	14.2	15.1	14.2	11.1	6.86	2.30	0.56	0.20	0.10	0.05	90.0	87.3		
	0.04	0.07	0.14	0.28	0.60	1.60	4.37	7.77	10.0	10.6	9.64	6.99	3.45	1.10	0.39	0.18	0.08	0.04	57.4	53.8		
	0.04	0.06	0.13	0.22	0.34	0.66	1.48	2.91	4.37	4.82	4.05	2.53	1.11	0.49	0.28	0.15	0.07	0.04	23.7	18.6		
	0.03	0.06	0.11	0.16	0.22	0.35	0.55	0.75	1.05	1.14	0.94	0.73	0.45	0.27	0.19	0.13	0.06	0.04	7.23	0.31		
	0.03	0.06	0.08	0.11	0.16	0.24	0.29	0.32	0.39	0.40	0.34	0.32	0.26	0.17	0.13	0.09	0.06	0.04	3.48	0.00		
	0.03	0.06	0.07	0.08	0.10	0.16	0.18	0.18	0.22	0.22	0.18	0.18	0.17	0.12	0.08	0.08	0.06	0.04	2.20	0.00		
	0.03	0.05	0.06	0.07	0.09	0.11	0.11	0.10	0.13	0.13	0.11	0.11	0.11	0.09	0.07	0.07	0.06	0.04	1.52	0.00		
	-72	-64	-56	-48	-40	-32	-24	-16	HORIZONTAL(DEG)					16	24	32	40	48	56	64	72	
F t	0.70	1.27	2.30	4.29	11.5	36.7	74.1	105	125	136	131	104	64.1	25.8	6.98	2.85	1.46	0.77	840			
F a	0.00	0.00	0.00	0.00	4.64	32.0	70.0	101	122	133	127	100	60.1	21.1	0.86	0.00	0.00	0.00		773		

Test System:HOP00 HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022-12-01

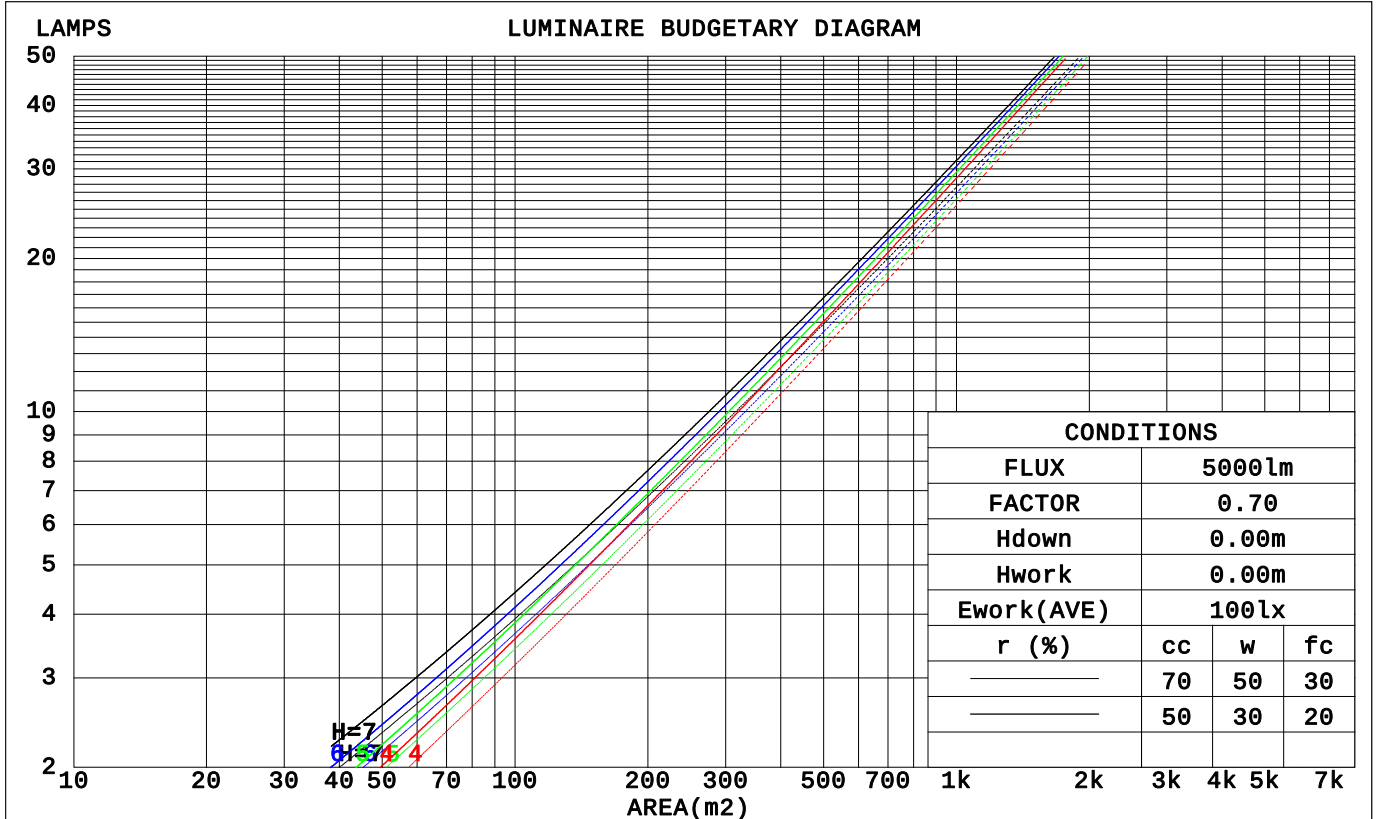
Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number: 2022120102

MANUFACTURER: Havit Commercial	Address:	
NAME: HCP-8922124-3K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HCP-8922124-3K	DIMENSION: 0.5M	SERIAL No.:2013051603

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															



Test System:HOP00 HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022-12-01

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

IES Flood Report

Photometric Filename:HCP-8922124-3K.IES

WEC AND CCEC

Report number: 2022120102

MANUFACTURER: Havit Commercial	Address:		
NAME: HCP-8922124-3K	TYPE:downlight	WEIGHT:0.5KG	
SPECIFICATION:HCP-8922124-3K	DIMENSION: 0.5M	SERIAL No.:2013051603	

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 Coefficients(WEC)									
0.0																
1.0	.188	.107	.034	.181	.103	.033	.169	.097	.031	.157	.091	.029	.146	.085	.027	
2.0	.177	.097	.030	.172	.095	.029	.161	.090	.028	.151	.085	.027	.142	.080	.025	
3.0	.168	.089	.027	.163	.087	.026	.154	.083	.025	.145	.080	.024	.137	.076	.024	
4.0	.159	.083	.024	.155	.081	.024	.147	.078	.023	.139	.075	.023	.133	.072	.022	
5.0	.151	.077	.022	.147	.076	.022	.140	.073	.022	.134	.071	.021	.128	.068	.021	
6.0	.144	.072	.021	.140	.071	.020	.134	.069	.020	.129	.067	.020	.123	.065	.019	
7.0	.137	.068	.019	.134	.067	.019	.129	.065	.019	.124	.063	.018	.119	.062	.018	
8.0	.131	.064	.018	.128	.063	.018	.124	.062	.018	.119	.060	.017	.115	.059	.017	
9.0	.125	.061	.017	.123	.060	.017	.119	.059	.017	.115	.058	.016	.111	.056	.016	
10.0	.120	.058	.016	.118	.057	.016	.114	.056	.016	.111	.055	.016	.107	.054	.015	

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	.134	.114	.097	.092	.079	.067	.053	.046	.040	.017	.015	.013	
3.0	.145	.114	.089	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.135	.099	.072	.115	.086	.062	.079	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.126	.087	.059	.108	.076	.051	.075	.053	.036	.043	.031	.021	.014	.010	.007	
6.0	.119	.078	.049	.102	.068	.043	.070	.047	.030	.041	.028	.018	.013	.009	.006	
7.0	.112	.071	.042	.096	.061	.036	.067	.043	.026	.039	.025	.015	.013	.008	.005	
8.0	.106	.064	.036	.092	.056	.031	.063	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.101	.059	.031	.087	.051	.027	.060	.036	.019	.035	.021	.011	.011	.007	.004	
10.0	.097	.055	.027	.083	.048	.024	.058	.034	.017	.034	.020	.010	.011	.007	.003	

Test System:HOP00 HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2022-12-01

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

Uncorrected UGR Table

Report number: 2022120102

MANUFACTURER: Havit Commercial						Address:					
NAME: HCP-8922124-3K						TYPE:downlight			WEIGHT:0.5KG		
SPECIFICATION:HCP-8922124-3K						DIMENSION: 0.5M			SERIAL No.:2013051603		
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	6.8	7.8	7.1	8.0	8.2	6.2	7.1	6.4	7.3	7.5	
	3H	6.8	7.7	7.0	7.9	8.1	6.1	7.0	6.4	7.2	7.4
	4H	6.8	7.6	7.0	7.8	8.1	6.1	6.9	6.4	7.2	7.4
	6H	6.8	7.6	7.1	7.9	8.1	6.2	7.0	6.5	7.2	7.5
	8H	6.9	7.7	7.2	7.9	8.2	6.3	7.0	6.6	7.3	7.6
	12H	7.1	7.8	7.4	8.1	8.3	6.4	7.1	6.7	7.4	7.7
4H	2H	6.6	7.5	6.9	7.7	7.9	6.0	6.8	6.3	7.1	7.3
	3H	6.6	7.3	6.9	7.6	7.9	6.0	6.7	6.3	7.0	7.2
	4H	6.7	7.3	7.0	7.6	7.9	6.0	6.7	6.4	7.0	7.3
	6H	6.8	7.4	7.2	7.7	8.1	6.2	6.8	6.6	7.1	7.5
	8H	7.0	7.5	7.3	7.8	8.2	6.3	6.9	6.7	7.2	7.6
	12H	7.2	7.7	7.6	8.1	8.5	6.6	7.1	7.0	7.5	7.9
8H	4H	6.6	7.1	7.0	7.5	7.9	6.0	6.5	6.4	6.9	7.2
	6H	6.9	7.3	7.3	7.7	8.1	6.3	6.7	6.7	7.1	7.5
	8H	7.1	7.5	7.6	7.9	8.4	6.5	6.9	7.0	7.4	7.8
	12H	7.5	7.8	8.0	8.3	8.8	6.9	7.3	7.4	7.7	8.2
12H	4H	6.6	7.1	7.0	7.4	7.8	6.0	6.5	6.4	6.8	7.2
	6H	6.9	7.3	7.3	7.7	8.1	6.3	6.7	6.8	7.1	7.6
	8H	7.2	7.5	7.7	8.0	8.4	6.6	7.0	7.1	7.4	7.9
Variations with the observer position at spacings:											
S = 1.0H	+ 2.5 / - 3.3					+ 2.2 / - 3.0					
1.5H	+ 4.6 / - 3.0					+ 4.2 / - 2.6					
2.0H	+ 2.5 / - 1.0					+ 1.8 / - 0.8					

CIE Pub.117 Corrected 840.4 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.6)

Test System:HOP00 HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022-12-01

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

UTILIZATION FACTORS TABLE

Report number: 2022120102

MANUFACTURER: Havit Commercial	Address:		
NAME: HCP-8922124-3K	TYPE:downlight	WEIGHT:0.5KG	
SPECIFICATION:HCP-8922124-3K	DIMENSION: 0.5M	SERIAL No.:2013051603	

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) $k(RI) \times RCR = 5$									
$k = 0.60$	86	80	76	86	80	76	85	79	76	72
0.80	94	88	84	93	87	84	92	87	83	80
1.00	98	93	89	97	92	88	96	92	88	84
1.25	102	97	93	101	96	93	99	95	92	88
1.50	105	100	97	104	99	96	102	98	95	91
2.00	108	104	100	106	102	99	104	101	98	93
2.50	110	106	103	108	104	102	105	102	100	94
3.00	111	108	105	109	106	104	106	104	102	95
4.00	113	110	108	111	109	107	108	106	104	97
5.00	115	112	110	113	110	109	109	107	106	98
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNM = 1.25		

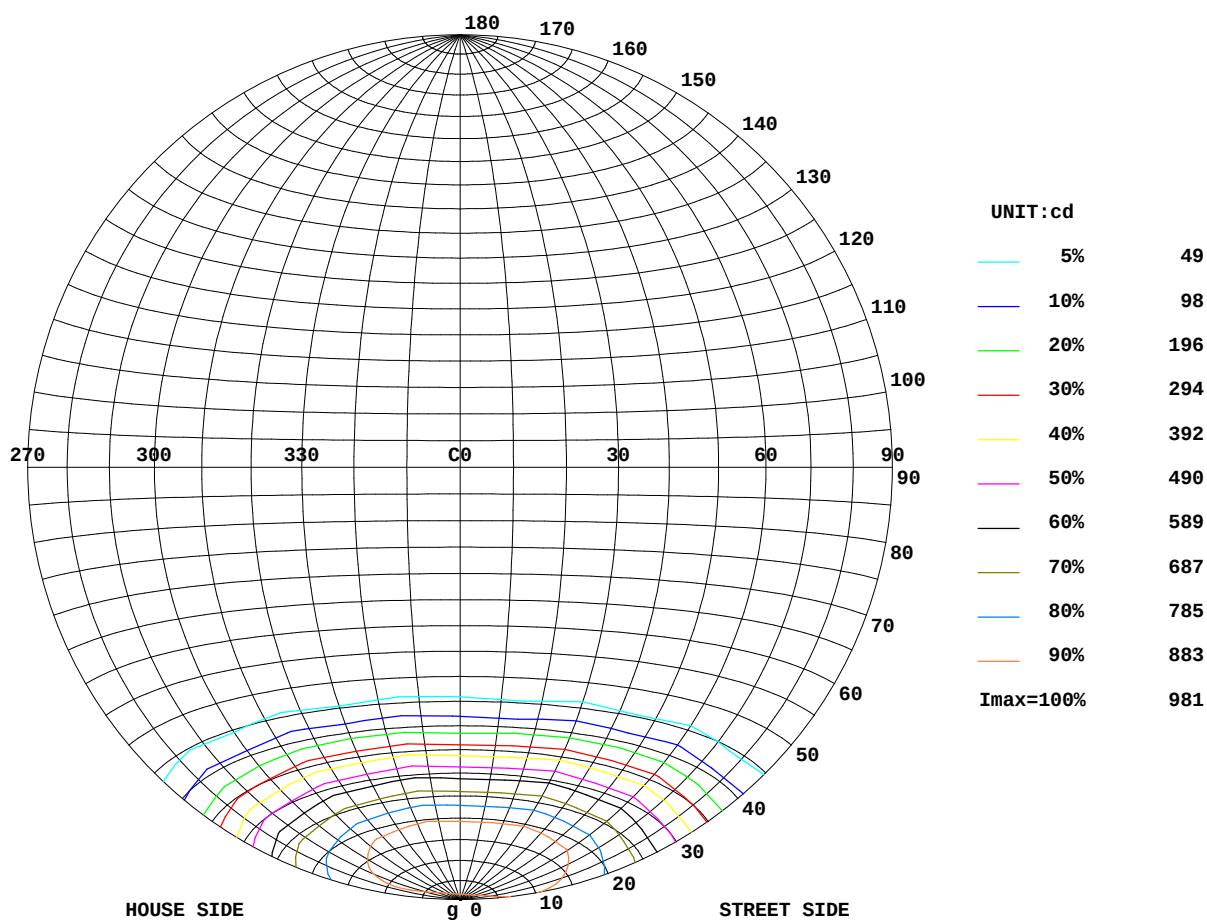
Test System:HOP00 HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2022-12-01

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

ISOCANDELA DIAGRAM

Report number: 2022120102

MANUFACTURER: Havit Commercial	Address:	
NAME: HCP-8922124-3K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HCP-8922124-3K	DIMENSION: 0.5M	SERIAL No.:2013051603



Test System:HOP00 HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2022-12-01

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

IES Flood Report

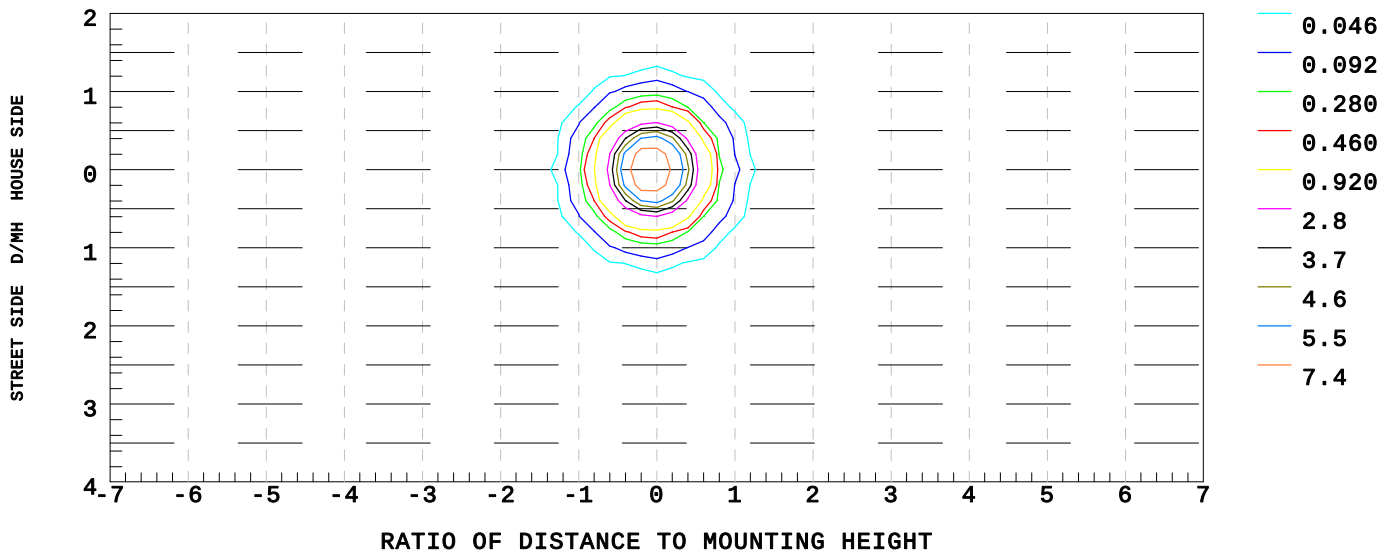
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ISOLUX DIAGRAM

Report number: 2022120102

MANUFACTURER: Havit Commercial	Address:	
NAME: HCP-8922124-3K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HCP-8922124-3K	DIMENSION: 0.5M	SERIAL No.:2013051603

ILLUMINANCE AT MH=10 m,Enadir = 8.67 lx



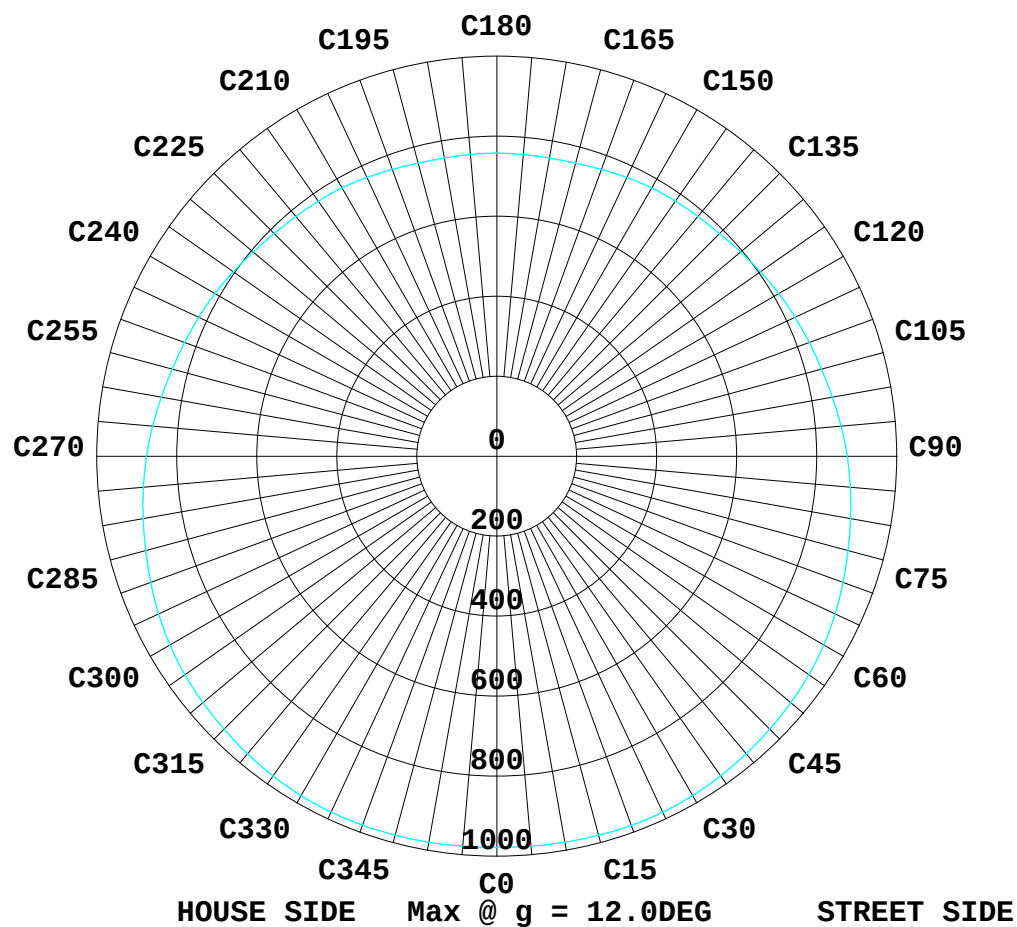
Test System:HOP00 HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2022-12-01

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

ISOCANDELA DIAGRAM

Report number: 2022120102

MANUFACTURER: Havit Commercial	Address:	
NAME: HCP-8922124-3K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HCP-8922124-3K	DIMENSION: 0.5M	SERIAL No.:2013051603



Test System:HOP00 HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2022-12-01

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

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2022120102

MANUFACTURER: Havit Commercial	Address:	
NAME: HCP-8922124-3K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HCP-8922124-3K	DIMENSION: 0.5M	SERIAL No.:2013051603

UNIT: cd

C(DEG) g (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210
0.0	867	864	863	863	862	862	862	861	861	860	861	860	860	860	861
5.0	929	928	925	918	908	893	878	860	847	829	820	810	808	810	820
10.0	975	977	975	961	942	913	883	850	825	800	787	773	772	773	787
15.0	961	962	965	947	926	886	854	814	789	760	748	731	730	731	748
20.0	865	865	873	853	838	799	775	738	718	684	672	646	644	646	672
25.0	716	718	730	709	703	666	652	611	591	546	531	493	490	493	531
30.0	545	547	566	543	541	499	487	440	417	366	348	306	303	306	348
35.0	335	340	362	339	339	299	287	263	219	178	162	134	121	134	162
40.0	121	138	120	140	120	118	117	89.2	86.2	66.8	67.1	53.8	56.6	53.8	67.1
45.0	58.2	52.9	62.0	52.6	57.7	44.6	46.2	37.1	39.6	30.9	33.8	27.3	31.0	27.3	33.8
50.0	28.7	24.7	29.6	24.4	28.0	21.6	24.5	19.7	22.9	18.3	21.3	17.2	20.4	17.2	21.3
55.0	18.6	15.4	19.0	15.4	18.3	14.2	17.0	13.6	16.5	13.1	15.6	12.4	15.2	12.4	15.6
60.0	13.1	10.6	13.5	10.3	12.7	9.72	12.4	9.66	12.3	9.34	11.5	8.96	11.5	8.96	11.5
65.0	9.72	7.29	9.79	7.16	9.28	6.33	8.38	6.20	8.63	6.20	8.25	6.01	8.12	6.01	8.25
70.0	7.36	5.31	7.36	5.18	6.97	4.73	6.65	4.73	6.59	4.73	6.52	4.80	6.52	4.80	6.52
75.0	6.46	4.67	6.40	4.60	6.27	4.48	6.14	4.48	6.08	4.41	6.01	4.48	6.08	4.48	6.01
80.0	5.95	4.41	5.88	4.28	5.69	4.16	5.56	4.03	5.44	4.09	5.44	4.09	5.50	4.09	5.44
85.0	5.44	4.03	5.31	3.90	5.05	3.71	4.92	3.64	4.86	3.58	4.86	3.64	4.86	3.64	4.86
90.0	4.80	3.90	4.67	3.84	4.48	3.64	4.35	3.58	4.35	3.58	4.28	3.58	4.41	3.58	4.28

Test System:HOP00 HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2022-12-01

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

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 2022120102

MANUFACTURER: Havit Commercial	Address:	
NAME: HCP-8922124-3K	TYPE:downlight	WEIGHT:0.5KG
SPECIFICATION:HCP-8922124-3K	DIMENSION: 0.5M	SERIAL No.:2013051603

UNIT: cd

C(DEG)	225	240	255	270	285	300	315	330	345
g (DEG)									
0.0	860	861	861	862	862	862	863	863	864
5.0	829	847	860	878	893	908	918	925	928
10.0	800	825	850	883	913	942	961	975	977
15.0	760	789	814	854	886	926	947	965	962
20.0	684	718	738	775	799	838	853	873	865
25.0	546	591	611	652	666	703	709	730	718
30.0	366	417	440	487	499	541	543	566	547
35.0	178	219	263	287	299	339	339	362	340
40.0	66.8	86.2	89.2	117	118	120	140	120	138
45.0	30.9	39.6	37.1	46.2	44.6	57.7	52.6	62.0	52.9
50.0	18.3	22.9	19.7	24.5	21.6	28.0	24.4	29.6	24.7
55.0	13.1	16.5	13.6	17.0	14.2	18.3	15.4	19.0	15.4
60.0	9.34	12.3	9.66	12.4	9.72	12.7	10.3	13.5	10.6
65.0	6.20	8.63	6.20	8.38	6.33	9.28	7.16	9.79	7.29
70.0	4.73	6.59	4.73	6.65	4.73	6.97	5.18	7.36	5.31
75.0	4.41	6.08	4.48	6.14	4.48	6.27	4.60	6.40	4.67
80.0	4.09	5.44	4.03	5.56	4.16	5.69	4.28	5.88	4.41
85.0	3.58	4.86	3.64	4.92	3.71	5.05	3.90	5.31	4.03
90.0	3.58	4.35	3.58	4.35	3.64	4.48	3.84	4.67	3.90

Test System:HOP00 HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2022-12-01

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