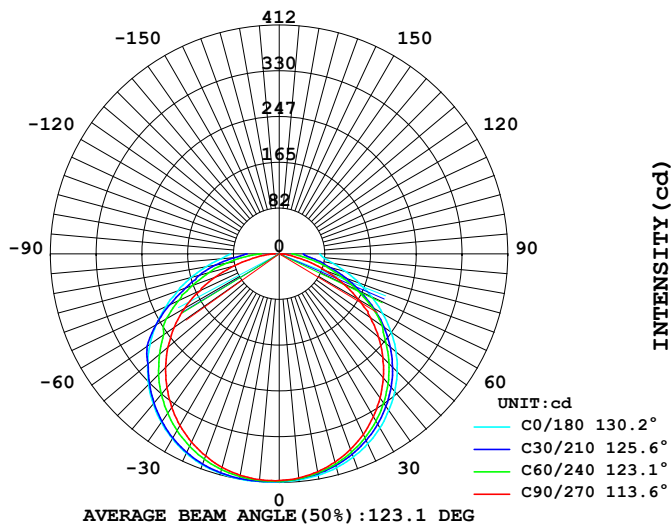
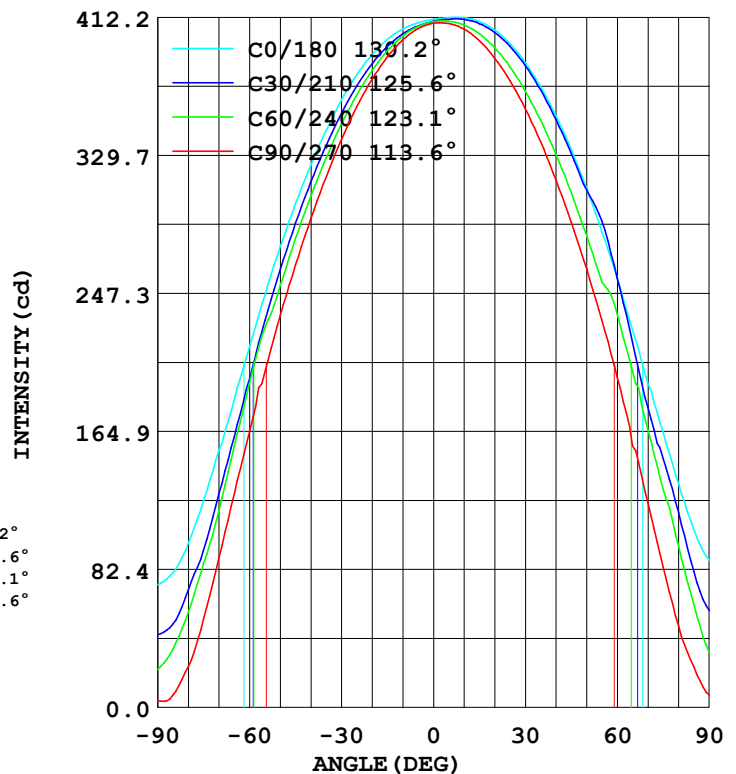


LUMINAIRE PHOTOMETRIC TEST REPORT

MANUFACTURER:ASD LIGHTING CORP		
Address:		
NAME:ASD-LVF28-18D20CC-NK	TYPE:	WEIGHT:
SPECIFICATION: 20W/5000K	DIMENSION: F-452mm	SERIAL No.:

DATA OF LAMP		Imax(cd)	412.1	S/MH(C0/180)	1.31
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	1.24
NOMINAL POWER(W)	20	TOTAL FLUX(lm)	1346.6	Voltage(V)	119.7
RATED VOLTAGE(V)	120	EFFICIENCY(lm/W)	69.7	Current(A)	0.174
NOMINAL FLUX(lm)	1346.7	η up(%)	0.0	Power(W)	19.32
LAMPS QUANTITY	1	η down(%)	100.0	Power Factor(PF)	0.925
TEST VOLTAGE(V)	119.8	Effective Flux(lm)	1337.4	EEL	0.000(E)

LUMINOUS INTENSITY DISTRIBUTION

LUMINOUS INTENSITY DISTRIBUTION


Test System:HopooColor HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2026-01-27

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.500 m
 Remarks:

Color Temperature Data List

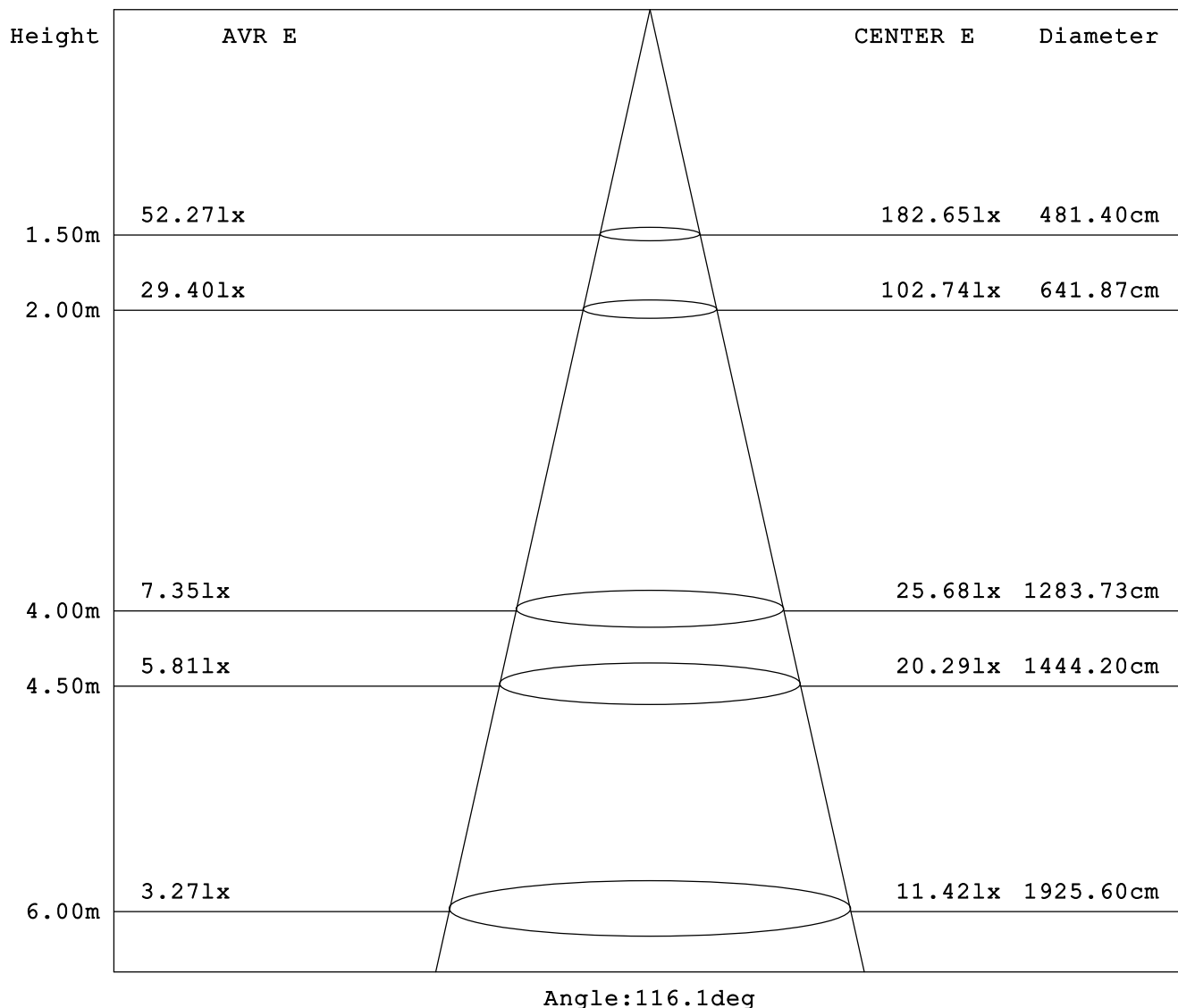
MANUFACTURER:ASD LIGHTING CORP		
Address:		
NAME:ASD-LVF28-18D20CC-NK	TYPE:	WEIGHT:
SPECIFICATION: 20W/5000K	DIMENSION: F-452mm	SERIAL No.:

Test System:HopooColor HPG1800
Temperature:25.3DEG
Operators:
Test Date:2026-01-27

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.500 m
Remarks:

AVERAGE AND CENTER E Figure

MANUFACTURER:ASD LIGHTING CORP		
Address:		
NAME:ASD-LVF28-18D20CC-NK	TYPE:	WEIGHT:
SPECIFICATION: 20W/5000K	DIMENSION: F-452mm	SERIAL No.:



Test System:Hopoocolor HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2026-01-27

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.500 m
 Remarks:

ZONAL FLUX DIAGRAM

MANUFACTURER:ASD LIGHTING CORP		
Address:		
NAME:ASD-LVF28-18D20CC-NK	TYPE:	WEIGHT:
SPECIFICATION: 20W/5000K	DIMENSION: F-452mm	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
5.0	408.9	406.8	405.3	408.2	411.9	410.4	408.5	407.8	0- 5	9.778	9.778
10.0	405.1	401.5	398.7	404.9	411.9	409.2	405.1	404.4	5- 10	29.10	38.88
15.0	399.0	393.6	388.6	399.0	409.6	405.3	398.0	398.4	10- 15	47.70	86.59
20.0	389.9	382.4	375.1	389.9	404.6	398.5	387.6	389.4	15- 20	65.01	151.6
25.0	377.7	368.5	358.9	377.9	396.3	388.6	374.3	377.5	20- 25	80.51	232.1
30.0	362.9	351.7	339.2	362.9	384.9	375.5	357.4	362.2	25- 30	93.68	325.8
35.0	344.6	331.9	316.7	344.7	370.7	359.7	337.9	344.4	30- 35	104.0	429.8
40.0	323.8	309.5	292.1	323.8	353.2	340.7	315.0	323.4	35- 40	111.3	541.2
45.0	300.9	284.7	264.3	300.5	333.3	319.0	289.5	299.8	40- 45	115.3	656.6
50.0	274.9	256.5	233.8	274.1	309.9	295.3	261.9	273.4	45- 50	115.7	772.3
55.0	246.3	229.0	200.7	244.8	284.0	272.4	231.4	244.0	50- 55	112.7	885.1
60.0	215.6	195.2	165.1	212.6	256.6	245.7	197.2	212.0	55- 60	106.2	991.3
65.0	183.8	158.8	127.3	176.8	225.7	209.3	156.1	177.9	60- 65	95.35	1087
70.0	153.6	122.6	89.44	144.7	193.6	172.5	122.3	142.9	65- 70	81.42	1168
75.0	123.8	90.16	53.03	112.6	164.1	139.3	83.66	107.3	70- 75	66.25	1234
80.0	97.89	63.36	24.27	79.07	133.7	106.5	48.62	78.21	75- 80	50.74	1285
85.0	80.48	42.23	7.297	50.68	105.9	71.23	24.13	53.68	80- 85	36.18	1321
90.0	73.26	33.09	3.901	37.49	87.78	45.30	7.297	38.36	85- 90	25.32	1347
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:HopooColor HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2026-01-27

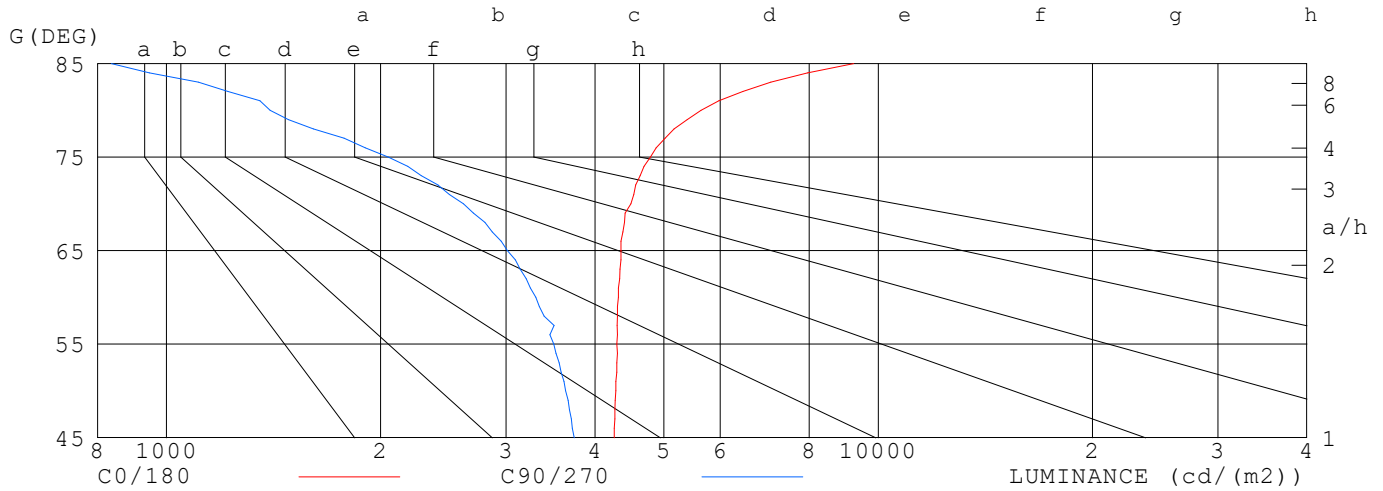
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.500 m
 Remarks:

LUMINANCE LIMITATION CURVES

MANUFACTURER:ASD LIGHTING CORP		
Address:		
NAME:ASD-LVF28-18D20CC-NK	TYPE:	WEIGHT:
SPECIFICATION: 20W/5000K	DIMENSION: F-452mm	SERIAL No.:

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



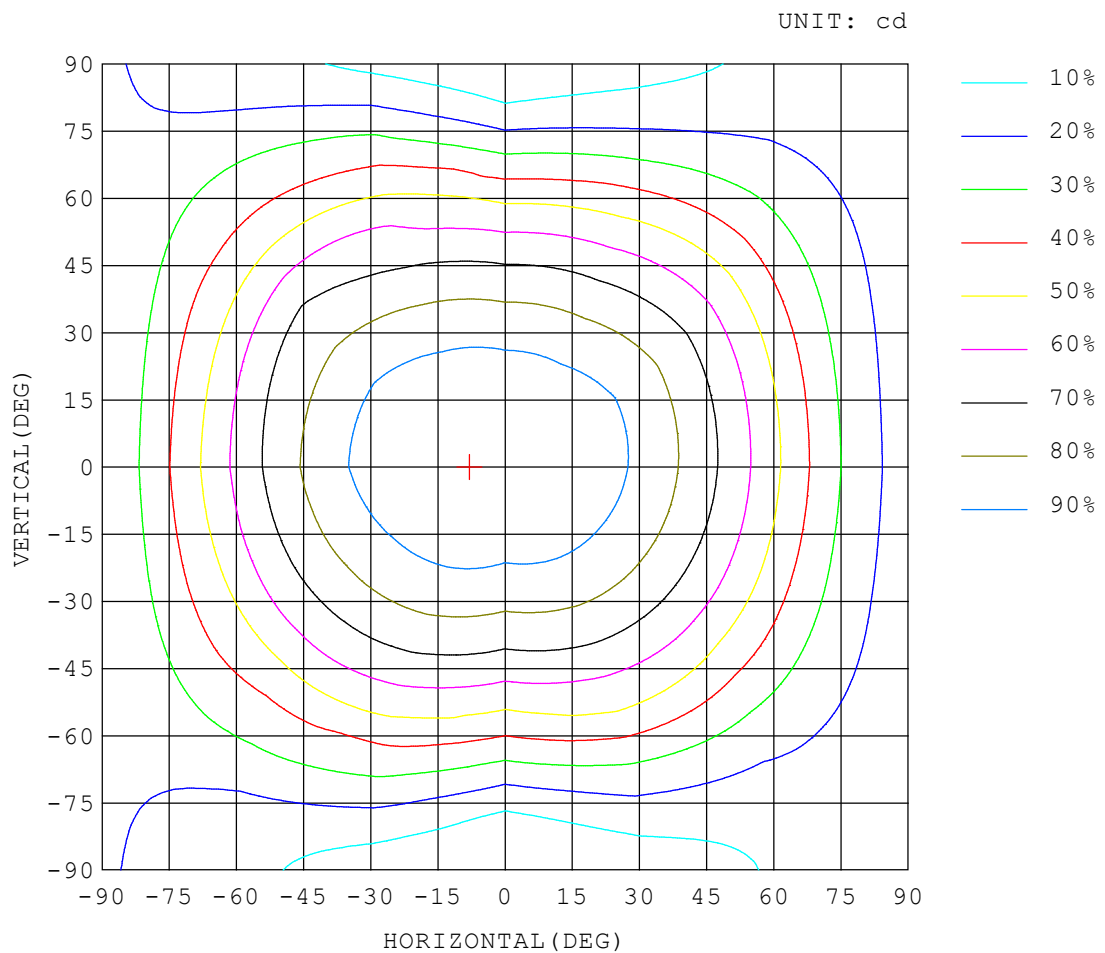
LUMINANCE cd/m2		
G (DEG)	C0/180	C90/270
85	9235	837
80	5638	1398
75	4785	2049
70	4491	2615
65	4351	3014
60	4313	3303
55	4294	3499
50	4278	3637
45	4257	3739

Test System:Hopoocolor HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2026-01-27

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.500 m
 Remarks:

ISOCANDELA DIAGRAM

MANUFACTURER:ASD LIGHTING CORP		
Address:		
NAME:ASD-LVF28-18D20CC-NK	TYPE:	WEIGHT:
SPECIFICATION: 20W/5000K	DIMENSION: F-452mm	SERIAL No.:

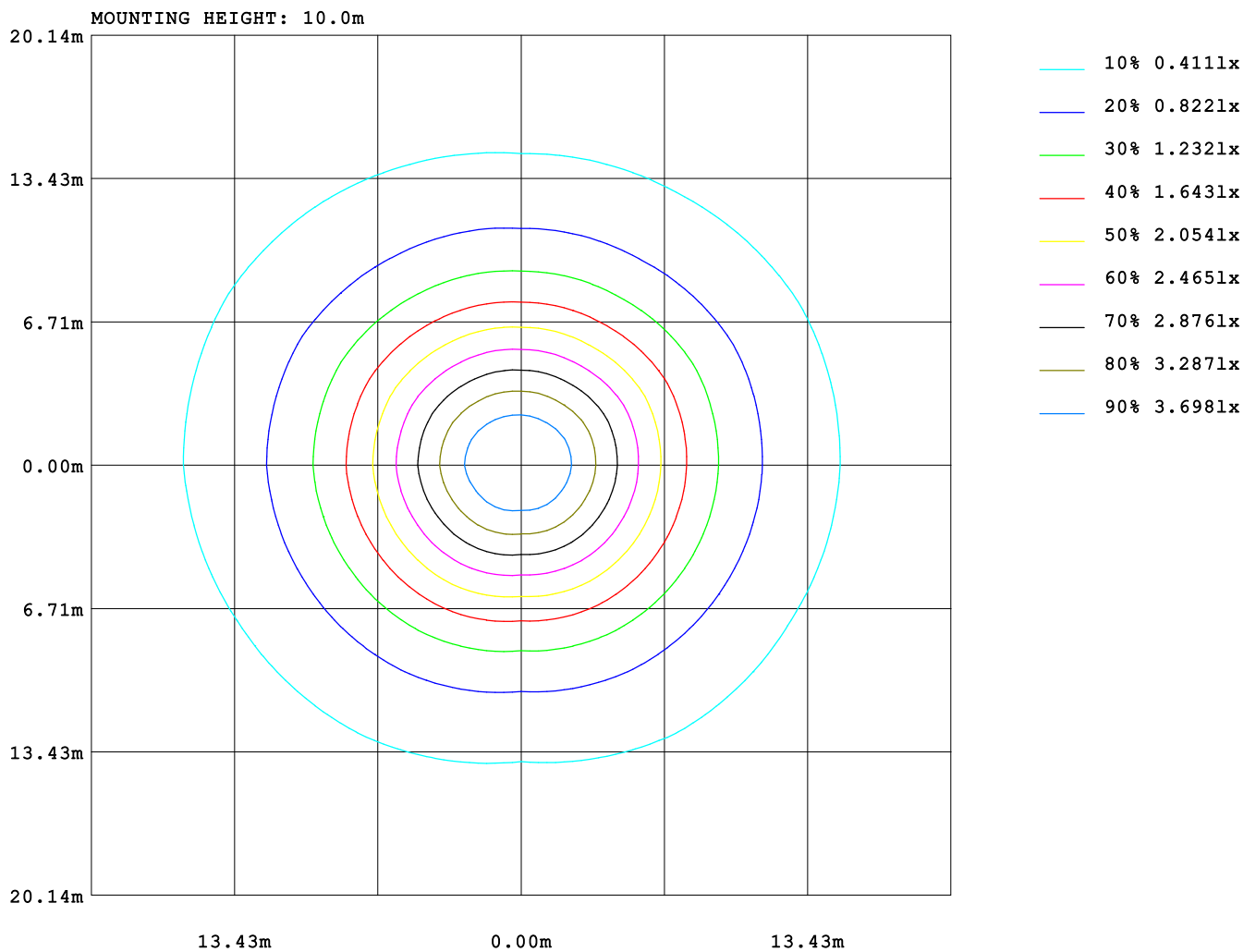


Test System:HopooColor HPG1800
Temperature:25.3DEG
Operators:
Test Date:2026-01-27

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.500 m
Remarks:

ISOLUX DIAGRAM

MANUFACTURER:ASD LIGHTING CORP		
Address:		
NAME:ASD-LVF28-18D20CC-NK	TYPE:	WEIGHT:
SPECIFICATION: 20W/5000K	DIMENSION: F-452mm	SERIAL No.:



Test System:HopooColor HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2026-01-27

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.500 m
 Remarks:

AREA LUMINOUS FLUX

MANUFACTURER:ASD LIGHTING CORP																				
Address:																				
NAME:ASD-LVF28-18D20CC-NK										TYPE:					WEIGHT:					
SPECIFICATION: 20W/5000K										DIMENSION: F-452mm					SERIAL No.:					

		AREA FLUX DIAGRAM																		UNIT:lm		Φ t	Φ a
VERTICAL (DEG)	90	0.22	0.60	0.91	1.15	1.35	1.48	1.46	1.25	0.94	0.85	1.00	1.08	1.10	1.05	0.93	0.75	0.50	0.18	16.8	13.2		
	80	0.23	0.70	1.21	1.80	2.38	2.88	3.15	3.07	2.78	2.61	2.58	2.40	2.11	1.76	1.37	0.94	0.55	0.19	32.7	32.7		
	70	0.24	0.82	1.57	2.46	3.36	4.27	4.94	5.16	5.04	4.87	4.65	4.16	3.49	2.71	1.91	1.19	0.62	0.19	51.7	51.7		
	60	0.26	0.94	1.90	3.05	4.39	5.68	6.58	7.02	7.11	6.97	6.59	5.85	4.88	3.72	2.54	1.47	0.70	0.20	69.8	69.8		
	50	0.27	1.04	2.18	3.68	5.42	6.82	7.82	8.56	8.84	8.73	8.23	7.31	6.12	4.67	3.11	1.75	0.78	0.21	85.6	85.6		
	40	0.28	1.14	2.44	4.24	6.21	7.73	9.02	9.90	10.2	10.1	9.58	8.56	7.16	5.45	3.60	1.99	0.86	0.21	98.8	98.8		
	30	0.29	1.21	2.66	4.63	6.65	8.49	9.96	10.9	11.3	11.2	10.6	9.52	7.95	6.00	3.96	2.18	0.92	0.22	109	109		
		0.30	1.27	2.82	4.86	6.95	8.96	10.6	11.6	12.0	11.9	11.3	10.1	8.40	6.33	4.20	2.31	0.97	0.22	115	115		
		0.30	1.30	2.90	4.96	7.13	9.18	10.8	11.9	12.4	12.3	11.6	10.3	8.57	6.46	4.30	2.38	1.00	0.23	118	118		
		0.30	1.29	2.87	4.89	7.05	9.09	10.7	11.8	12.3	12.2	11.5	10.2	8.49	6.40	4.26	2.35	0.99	0.23	117	117		
		0.30	1.24	2.72	4.65	6.72	8.66	10.2	11.3	11.8	11.7	11.1	9.87	8.14	6.13	4.06	2.24	0.95	0.22	112	112		
	-30	0.29	1.17	2.51	4.29	6.22	8.03	9.54	10.5	10.9	10.8	10.3	9.17	7.55	5.67	3.74	2.07	0.89	0.22	104	104		
	-40	0.27	1.07	2.26	3.79	5.55	7.20	8.55	9.43	9.71	9.63	9.20	8.19	6.73	5.02	3.29	1.84	0.81	0.21	92.8	92.8		
	-50	0.26	0.97	1.98	3.19	4.69	6.14	7.29	7.97	8.13	8.05	7.74	6.94	5.73	4.22	2.75	1.56	0.73	0.20	78.6	78.6		
	-60	0.25	0.85	1.66	2.61	3.71	4.86	5.78	6.22	6.24	6.18	6.06	5.53	4.48	3.28	2.14	1.27	0.64	0.19	62.0	62.0		
	-70	0.23	0.73	1.31	2.00	2.79	3.52	4.07	4.21	4.06	3.98	3.99	3.69	3.05	2.28	1.56	1.00	0.56	0.19	43.2	43.2		
-80	0.22	0.63	0.97	1.34	1.80	2.19	2.36	2.21	1.87	1.78	1.97	2.00	1.79	1.44	1.07	0.77	0.50	0.18	25.1	24.6			
-90	0.21	0.56	0.77	0.90	1.00	1.04	0.97	0.76	0.47	0.43	0.67	0.84	0.89	0.85	0.76	0.65	0.47	0.18	12.4	7.12			
		-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)					20	30	40	50	60	70	80	90	
Φ t	4.72	17.5	35.7	58.5	83.4	106	124	134	136	135	129	116	96.7	73.5	49.6	28.7	13.4	3.66	1347				
Φ a	4.72	17.5	35.7	58.5	83.2	106	123	133	135	133	128	115	95.7	72.8	49.4	28.7	13.4	3.66		1337			

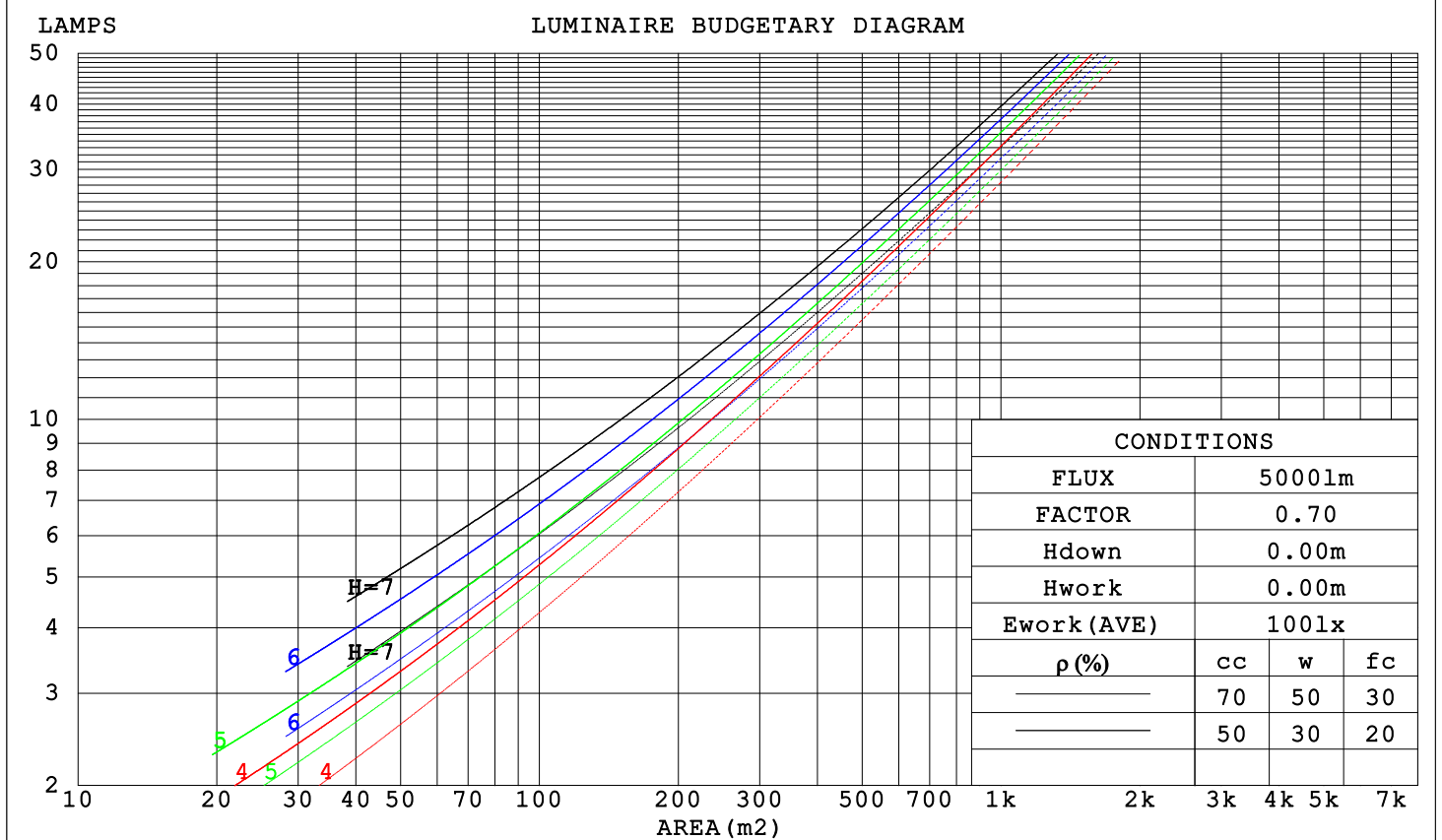
Test System:HopooColor HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2026-01-27

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.500 m
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

MANUFACTURER:ASD LIGHTING CORP															
Address:															
NAME:ASD-LVF28-18D20CC-NK								TYPE:				WEIGHT:			
SPECIFICATION: 20W/5000K								DIMENSION: F-452mm				SERIAL No.:			

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	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	1.02	.97	.93	.99	.95	.91	.95	.91	.88	.91	.88	.85	.88	.85	.83	.81
2.0	.88	.80	.74	.86	.79	.73	.82	.76	.71	.79	.74	.70	.76	.72	.68	.66
3.0	.77	.68	.61	.75	.67	.60	.72	.65	.59	.69	.63	.58	.66	.61	.57	.55
4.0	.68	.58	.51	.66	.57	.51	.64	.56	.50	.61	.55	.49	.59	.53	.49	.46
5.0	.60	.51	.44	.59	.50	.43	.57	.49	.43	.55	.48	.42	.53	.47	.42	.40
6.0	.54	.45	.38	.53	.44	.38	.51	.43	.37	.49	.42	.37	.48	.42	.37	.34
7.0	.49	.40	.33	.48	.39	.33	.46	.39	.33	.45	.38	.33	.43	.37	.32	.30
8.0	.44	.36	.30	.44	.35	.29	.42	.35	.29	.41	.34	.29	.40	.34	.29	.27
9.0	.41	.32	.27	.40	.32	.26	.39	.31	.26	.38	.31	.26	.37	.31	.26	.24
10.0	.38	.29	.24	.37	.29	.24	.36	.29	.24	.35	.28	.24	.34	.28	.24	.22



Test System:HopooColor HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2026-01-27

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.500 m
 Remarks:

WEC AND CCEC

MANUFACTURER:ASD LIGHTING CORP															
Address:															
NAME:ASD-LVF28-18D20CC-NK								TYPE:				WEIGHT:			
SPECIFICATION: 20W/5000K								DIMENSION: F-452mm				SERIAL No.:			

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.350	.199	.063	.343	.195	.062	.329	.189	.060	.317	.183	.059	.305	.177	.057	
2.0	.317	.174	.053	.310	.171	.053	.298	.166	.052	.287	.161	.050	.277	.157	.049	
3.0	.288	.153	.046	.282	.151	.045	.271	.147	.045	.262	.143	.044	.253	.140	.043	
4.0	.262	.136	.040	.257	.135	.040	.248	.132	.039	.239	.129	.039	.231	.126	.038	
5.0	.241	.123	.036	.236	.121	.035	.228	.119	.035	.220	.116	.035	.213	.114	.034	
6.0	.222	.111	.032	.218	.110	.032	.210	.108	.031	.204	.106	.031	.197	.104	.031	
7.0	.205	.102	.029	.202	.101	.029	.195	.099	.028	.189	.097	.028	.183	.095	.028	
8.0	.191	.093	.026	.188	.093	.026	.182	.091	.026	.177	.089	.026	.171	.088	.026	
9.0	.179	.086	.024	.176	.086	.024	.171	.084	.024	.166	.083	.024	.161	.082	.024	
10.0	.168	.080	.022	.165	.080	.022	.160	.079	.022	.156	.077	.022	.152	.076	.022	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	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	.183	.156	.131	.157	.134	.113	.107	.092	.078	.062	.053	.045	.020	.017	.015	
2.0	.176	.132	.095	.150	.113	.082	.103	.078	.057	.059	.046	.034	.019	.015	.011	
3.0	.168	.114	.072	.144	.099	.062	.099	.069	.044	.057	.040	.026	.018	.013	.008	
4.0	.160	.101	.056	.137	.088	.049	.094	.061	.034	.055	.036	.020	.018	.012	.007	
5.0	.152	.091	.046	.131	.079	.040	.090	.055	.028	.052	.032	.017	.017	.011	.005	
6.0	.145	.083	.038	.125	.072	.033	.086	.050	.023	.050	.029	.014	.016	.010	.005	
7.0	.138	.076	.032	.119	.066	.028	.082	.046	.020	.048	.027	.012	.015	.009	.004	
8.0	.131	.070	.028	.113	.061	.024	.078	.043	.017	.045	.025	.010	.015	.008	.003	
9.0	.125	.065	.025	.108	.056	.022	.075	.040	.015	.043	.023	.009	.014	.008	.003	
10.0	.119	.061	.022	.103	.053	.019	.071	.037	.014	.042	.022	.008	.013	.007	.003	

Test System:HopooColor HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2026-01-27

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.500 m
 Remarks:

Uncorrected UGR Table

MANUFACTURER:ASD LIGHTING CORP										
Address:										
NAME:ASD-LVF28-18D20CC-NK					TYPE:			WEIGHT:		
SPECIFICATION: 20W/5000K					DIMENSION: F-452mm			SERIAL No.:		
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	17.7	19.3	18.0	19.5	19.7	17.0	18.6	17.3	18.8	19.0
3H	19.6	21.0	19.9	21.3	21.5	18.2	19.7	18.5	20.0	20.2
4H	20.5	21.9	20.8	22.1	22.4	18.6	20.0	18.9	20.3	20.6
6H	21.4	22.7	21.7	23.0	23.3	18.8	20.1	19.1	20.4	20.7
8H	21.9	23.2	22.2	23.5	23.8	18.8	20.1	19.2	20.4	20.7
12H	22.5	23.7	22.9	24.0	24.3	18.8	20.1	19.2	20.4	20.7
4H 2H	18.3	19.7	18.6	19.9	20.2	17.7	19.1	18.0	19.4	19.6
3H	20.3	21.5	20.6	21.8	22.1	19.2	20.4	19.6	20.7	21.1
4H	21.3	22.4	21.7	22.7	23.1	19.8	20.9	20.1	21.2	21.6
6H	22.4	23.4	22.8	23.7	24.1	20.1	21.1	20.5	21.5	21.8
8H	23.0	23.9	23.4	24.3	24.7	20.2	21.1	20.6	21.5	21.9
12H	23.7	24.6	24.2	25.0	25.4	20.2	21.1	20.6	21.5	21.9
8H 4H	21.5	22.5	21.9	22.8	23.2	20.2	21.1	20.6	21.5	21.9
6H	22.8	23.6	23.2	24.0	24.4	20.8	21.6	21.2	22.0	22.4
8H	23.5	24.3	24.0	24.7	25.1	21.0	21.7	21.4	22.1	22.6
12H	24.5	25.1	25.0	25.6	26.0	21.1	21.8	21.6	22.2	22.7
12H 4H	21.5	22.4	21.9	22.8	23.2	20.3	21.1	20.7	21.5	21.9
6H	22.9	23.6	23.3	24.0	24.5	20.9	21.7	21.4	22.1	22.5
8H	23.7	24.3	24.1	24.7	25.2	21.3	21.9	21.7	22.3	22.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.2					+ 0.3 / - 0.4				
2.0H	+ 0.1 / - 0.3					+ 0.2 / - 0.5				

CIE Pub.117 Corrected 1347 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.0)

Test System:HopooColor HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2026-01-27

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.500 m
 Remarks:

UTILIZATION FACTORS TABLE

MANUFACTURER:ASD LIGHTING CORP		
Address :		
NAME :ASD-LVF28-18D20CC-NK	TYPE :	WEIGHT :
SPECIFICATION: 20W/5000K	DIMENSION: F-452mm	SERIAL No. :

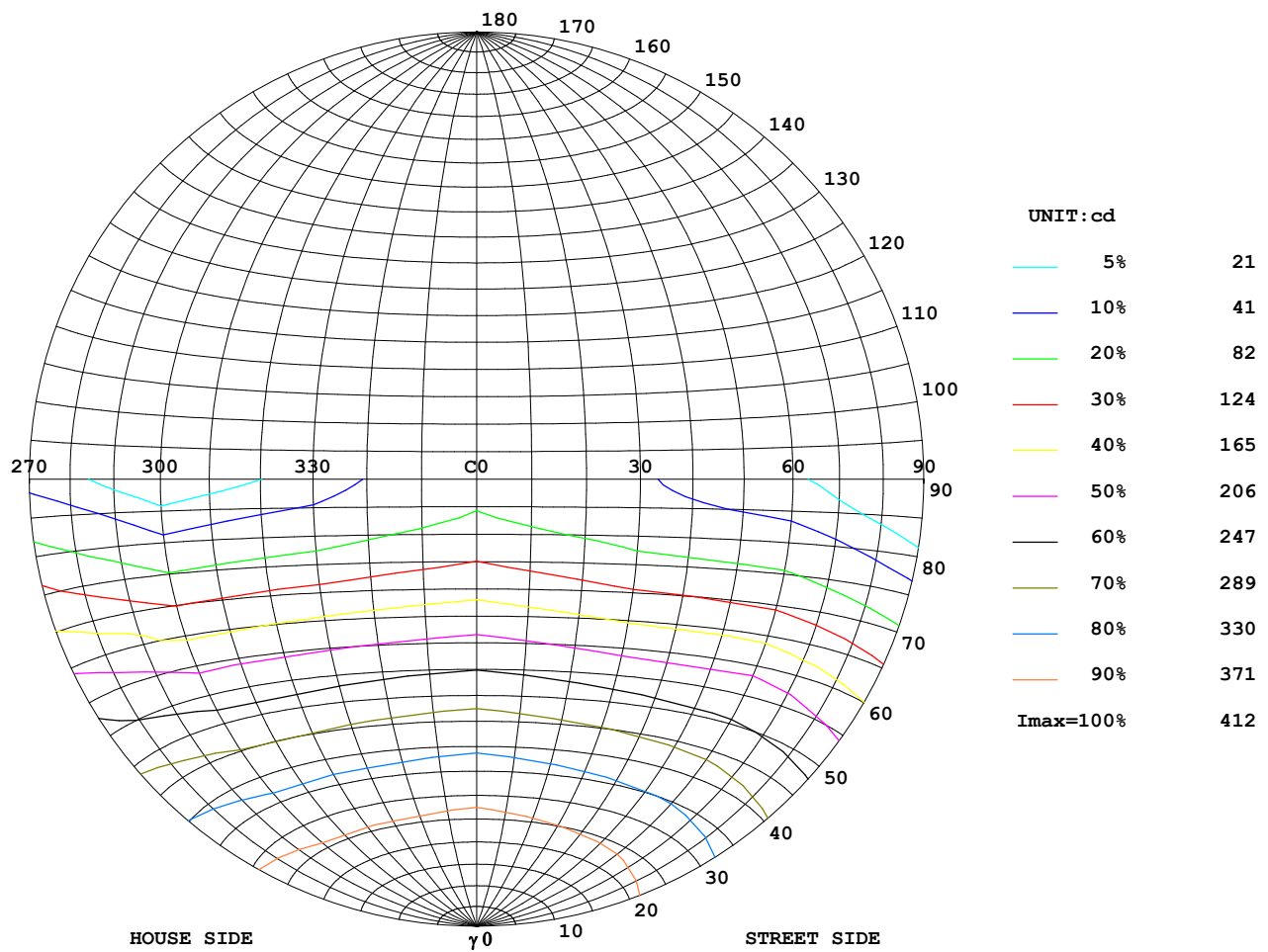
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	55	43	36	54	43	36	53	42	36	29
0.80	65	53	45	64	52	45	62	52	44	37
1.00	73	62	54	72	61	54	70	63	53	45
1.25	80	69	62	79	68	61	76	67	60	53
1.50	85	75	67	84	74	67	81	72	66	58
2.00	93	83	76	91	82	75	87	80	74	66
2.50	97	88	81	95	87	81	91	84	79	70
3.00	100	93	86	98	91	85	94	88	83	74
4.00	104	98	93	102	96	91	98	93	89	79
5.00	107	102	97	105	100	95	100	96	92	83
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

Test System:HopooColor HPG1800
Temperature:25.3DEG
Operators:
Test Date:2026-01-27

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.500 m
Remarks:

ISOCANDELA DIAGRAM

MANUFACTURER:ASD LIGHTING CORP		
Address:		
NAME:ASD-LVF28-18D20CC-NK	TYPE:	WEIGHT:
SPECIFICATION: 20W/5000K	DIMENSION: F-452mm	SERIAL No.:



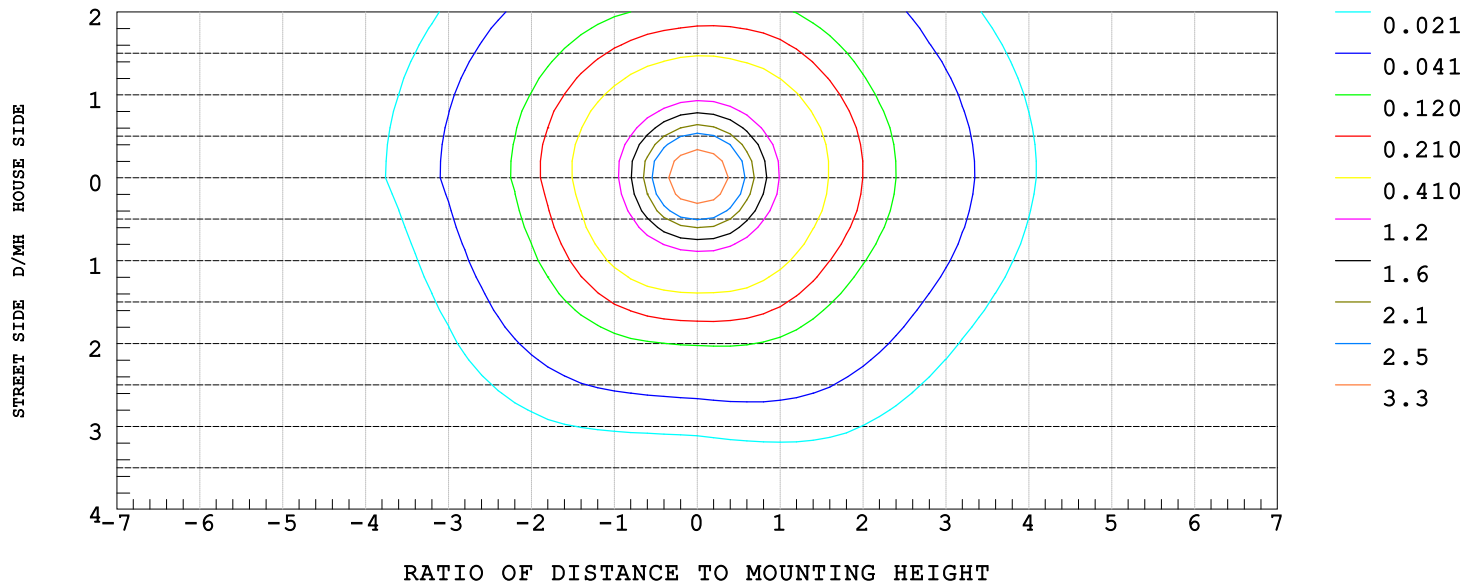
Test System:HopooColor HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2026-01-27

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.500 m
 Remarks:

ISOLUX DIAGRAM

MANUFACTURER:ASD LIGHTING CORP		
Address:		
NAME:ASD-LVF28-18D20CC-NK	TYPE:	WEIGHT:
SPECIFICATION: 20W/5000K	DIMENSION: F-452mm	SERIAL No.:

ILLUMINANCE AT MH=10 m,Enadir = 4.11 lx

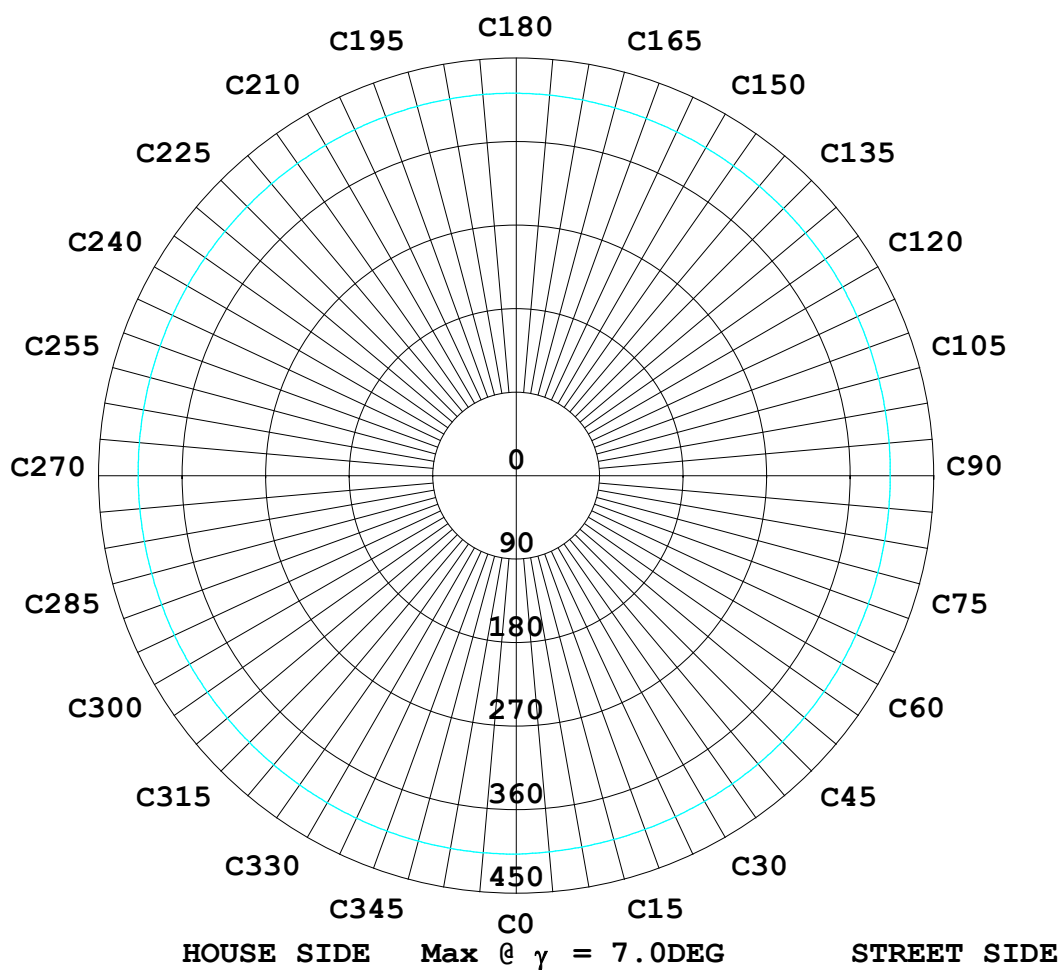


Test System:Hopoocolor HPG1800
Temperature:25.3DEG
Operators:
Test Date:2026-01-27

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.500 m
Remarks:

ISOCANDELA DIAGRAM

MANUFACTURER:ASD LIGHTING CORP		
Address:		
NAME:ASD-LVF28-18D20CC-NK	TYPE:	WEIGHT:
SPECIFICATION: 20W/5000K	DIMENSION: F-452mm	SERIAL No.:



Test System:HopooColor HPG1800
Temperature:25.3DEG
Operators:
Test Date:2026-01-27

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.500 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

MANUFACTURER:ASD LIGHTING CORP		
Address:		
NAME:ASD-LVF28-18D20CC-NK	TYPE:	WEIGHT:
SPECIFICATION: 20W/5000K	DIMENSION: F-452mm	SERIAL No.:

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330
0.0	411	410	410	409	409	409	411	410	410	409	409	409
5.0	409	407	407	405	408	409	412	411	410	409	408	408
10.0	405	402	401	399	403	407	412	411	407	405	404	405
15.0	399	395	392	389	396	402	410	408	402	398	397	400
20.0	390	384	380	375	386	394	405	403	394	388	387	392
25.0	378	371	366	359	372	383	396	395	382	374	374	381
30.0	363	355	349	339	357	369	385	383	368	357	357	367
35.0	345	336	328	317	337	352	371	369	351	338	339	350
40.0	324	314	305	292	315	333	353	351	330	315	317	330
45.0	301	289	280	264	291	310	333	331	308	290	292	307
50.0	275	261	252	234	264	284	310	309	282	262	265	282
55.0	246	231	227	201	234	256	284	291	254	231	235	253
60.0	216	196	194	165	203	222	257	256	235	197	204	220
65.0	184	162	156	127	169	184	226	218	201	156	170	186
70.0	154	128	117	89.4	136	154	194	179	166	122	134	152
75.0	124	94.1	86.1	53.0	102	123	164	149	130	83.6	97.7	117
80.0	97.8	70.0	56.6	24.2	69.2	88.9	134	117	96.4	48.6	67.9	88.4
85.0	80.4	49.7	34.6	7.29	40.7	60.6	106	81.2	61.2	24.1	42.9	64.4
90.0	73.2	43.5	22.6	3.90	25.2	49.7	87.7	57.7	32.8	7.29	26.9	49.7

Test System:HopooColor HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2026-01-27

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.500 m
 Remarks: