

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

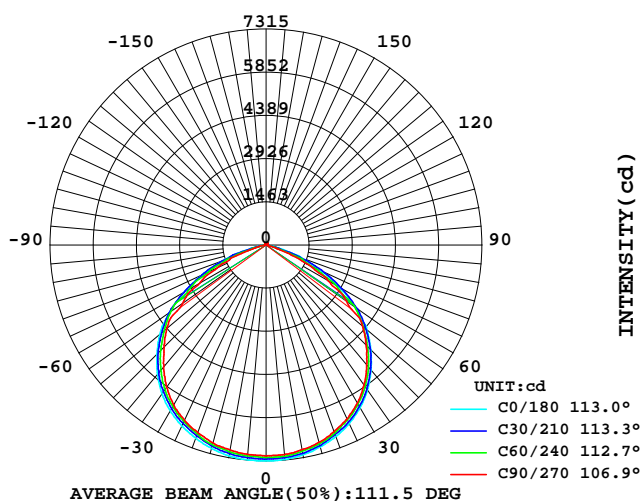
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

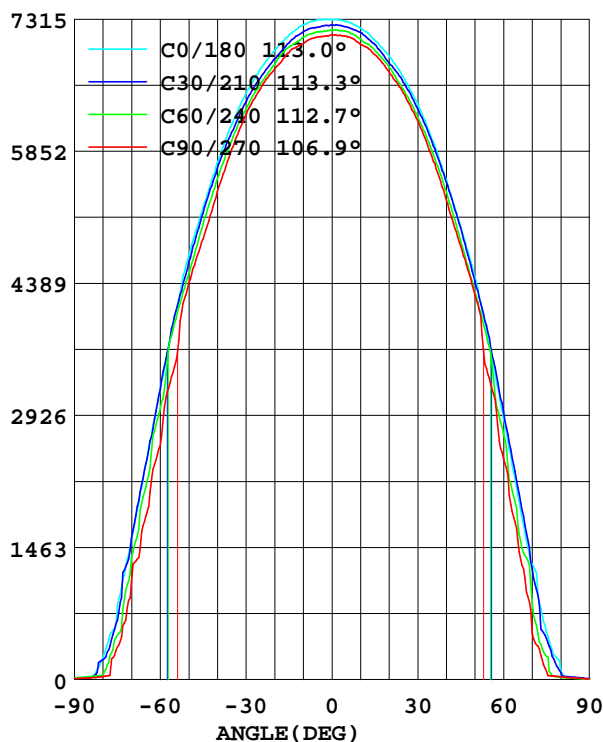
MANUFACTURER:	Address:		
NAME: LD-N20C	TYPE:	WEIGHT:	
SPECIFICATION:	DIMENSION:	SERIAL No.:	

DATA OF LAMP		I _{max} (cd)	7315	S/MH(C0/180)	1.32
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	1.30
NOMINAL POWER(W)	204	TOTAL FLUX(lm)	19356	Voltage(V)	100.1
RATED VOLTAGE(V)	100	EFFICIENCY(lm/W)	94.9	Current(A)	2.035
NOMINAL FLUX(lm)	19355.8	η up(%)	1.2	Power(W)	203.8
LAMPS QUANTITY	1	η down(%)	98.8	Power Factor(PF)	0.999
TEST VOLTAGE(V)	100.2	Effective Flux(lm)	18822.1	EEI	0.148

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:2019年03月28日

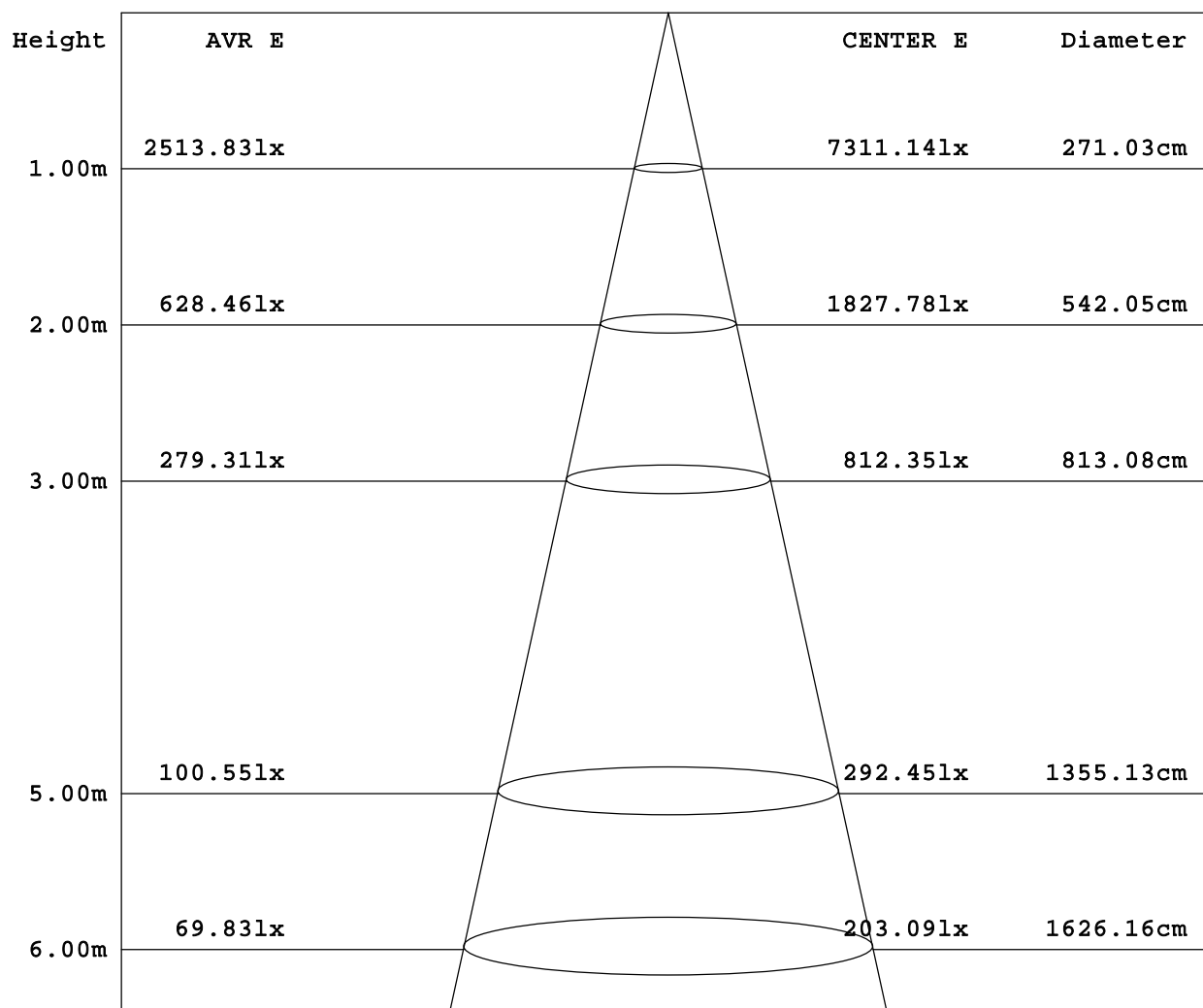
Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:5.690 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:	Address:	
NAME: LD-N20C	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Angle:107.2deg

Test System:HOPOO HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:2019年03月28日

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:5.690 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: LD-N20C	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	7307	7200	7116	7050	7293	7206	7125	7060	0- 5	171.2	171.2
10.0	7254	7144	7043	6986	7218	7131	7037	6981	5- 10	509.6	680.9
15.0	7137	7027	6943	6874	7082	7002	6922	6861	10- 15	833.7	1515
20.0	6966	6844	6764	6693	6906	6807	6730	6674	15- 20	1134	2648
25.0	6768	6632	6545	6487	6678	6576	6496	6446	20- 25	1400	4048
30.0	6492	6358	6256	6208	6370	6275	6191	6170	25- 30	1626	5674
35.0	6148	6018	5876	5872	5982	5903	5789	5816	30- 35	1797	7471
40.0	5729	5605	5404	5460	5539	5456	5306	5385	35- 40	1903	9374
45.0	5232	5109	4881	4965	5018	4934	4806	4882	40- 45	1936	11310
50.0	4692	4558	4392	4413	4456	4352	4264	4322	45- 50	1899	13209
55.0	4030	3982	3463	3837	3705	3740	3339	3730	50- 55	1782	14991
60.0	3231	3107	2595	2987	2893	2846	2450	2857	55- 60	1535	16526
65.0	2377	2265	1815	2169	2041	1923	1536	1953	60- 65	1200	17725
70.0	1559	1463	1091	1249	1281	1038	505.0	1090	65- 70	823.2	18549
75.0	812.2	572.4	362.8	525.6	527.8	360.7	98.64	391.2	70- 75	408.6	18957
80.0	239.0	133.3	33.73	123.9	94.37	52.33	29.88	65.05	75- 80	128.3	19086
85.0	32.82	25.80	18.77	23.90	17.12	19.66	17.93	21.59	80- 85	24.00	19110
90.0	16.93	17.04	11.81	14.74	8.094	10.81	10.58	10.76	85- 90	9.296	19119
95.0	15.57	13.51	9.809	13.74	11.46	13.03	12.20	12.64	90- 95	6.551	19125
100.0	19.29	17.36	13.88	17.61	15.76	16.77	15.37	16.15	95-100	7.979	19133
105.0	24.57	22.61	19.61	22.82	21.17	21.44	20.07	20.80	100-105	10.23	19144
110.0	30.46	28.00	25.77	28.05	26.58	26.14	25.41	25.52	105-110	12.72	19156
115.0	36.06	33.16	31.95	32.89	31.98	30.78	30.59	30.14	110-115	14.95	19171
120.0	41.53	38.13	37.29	37.58	37.26	35.51	36.03	34.83	115-120	16.80	19188
125.0	46.45	42.42	41.95	41.57	42.05	39.80	40.95	39.02	120-125	18.13	19206
130.0	51.05	46.63	46.58	45.32	46.65	43.98	45.16	43.12	125-130	18.92	19225
135.0	55.52	50.66	51.08	48.96	50.76	48.19	49.21	47.22	130-135	19.26	19244
140.0	59.34	54.19	54.87	52.22	54.48	52.23	53.35	51.05	135-140	19.10	19264
145.0	62.58	57.69	58.17	55.47	58.14	56.18	56.98	54.84	140-145	18.42	19282
150.0	65.43	61.14	61.22	58.63	61.70	59.92	60.57	58.37	145-150	17.28	19299
155.0	68.28	64.49	64.62	61.67	64.91	63.29	63.32	61.46	150-155	15.68	19315
160.0	70.83	67.92	68.31	64.84	68.44	66.46	66.59	64.65	155-160	13.66	19329
165.0	73.88	71.71	72.19	68.63	72.58	69.91	70.28	68.08	160-165	11.29	19340
170.0	76.89	75.30	75.72	72.44	76.66	73.67	73.91	71.77	165-170	8.565	19349
175.0	79.35	77.10	78.44	74.52	79.70	76.48	77.67	74.49	170-175	5.395	19354
180.0	80.42	78.07	79.48	75.85	81.00	77.99	79.19	75.90	175-180	1.846	19356
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:2019年03月28日

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:5.690 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

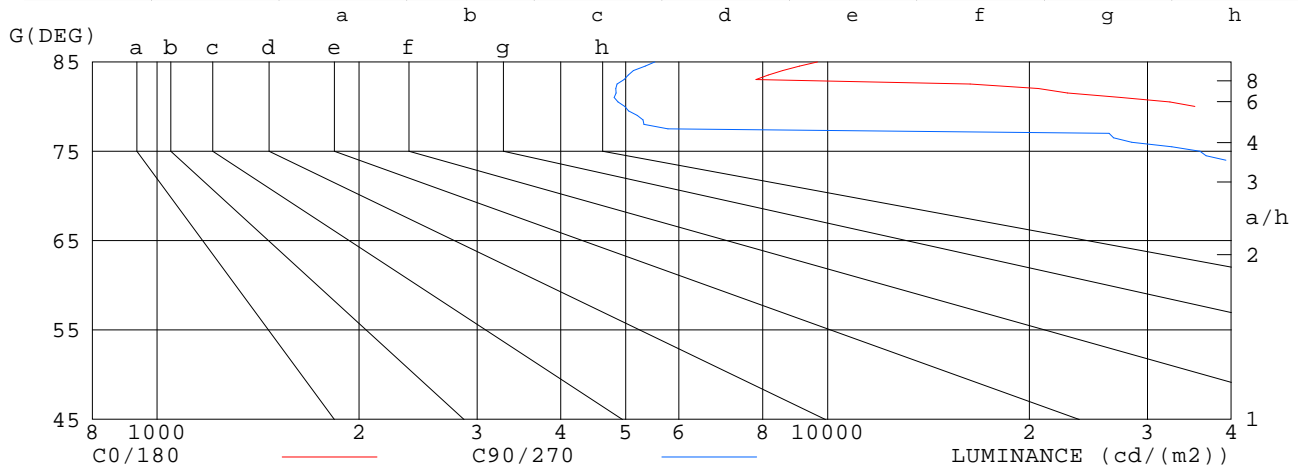
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:		Address:	
NAME: LD-N20C		TYPE:	WEIGHT:
SPECIFICATION:		DIMENSION:	SERIAL No.:

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
		2000	1000	500	<=300				
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



G (DEG)	LUMINANCE cd/(m2)	
	C0/180	C90/270
85	9658	5524
80	35291	4981
75	80472	35949
70	116883	81813
65	144193	110090
60	165706	133081
55	180174	154821
50	187149	175194
45	189705	177007

Test System:HOPOO HPG1600
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 Test Date:2019年03月28日

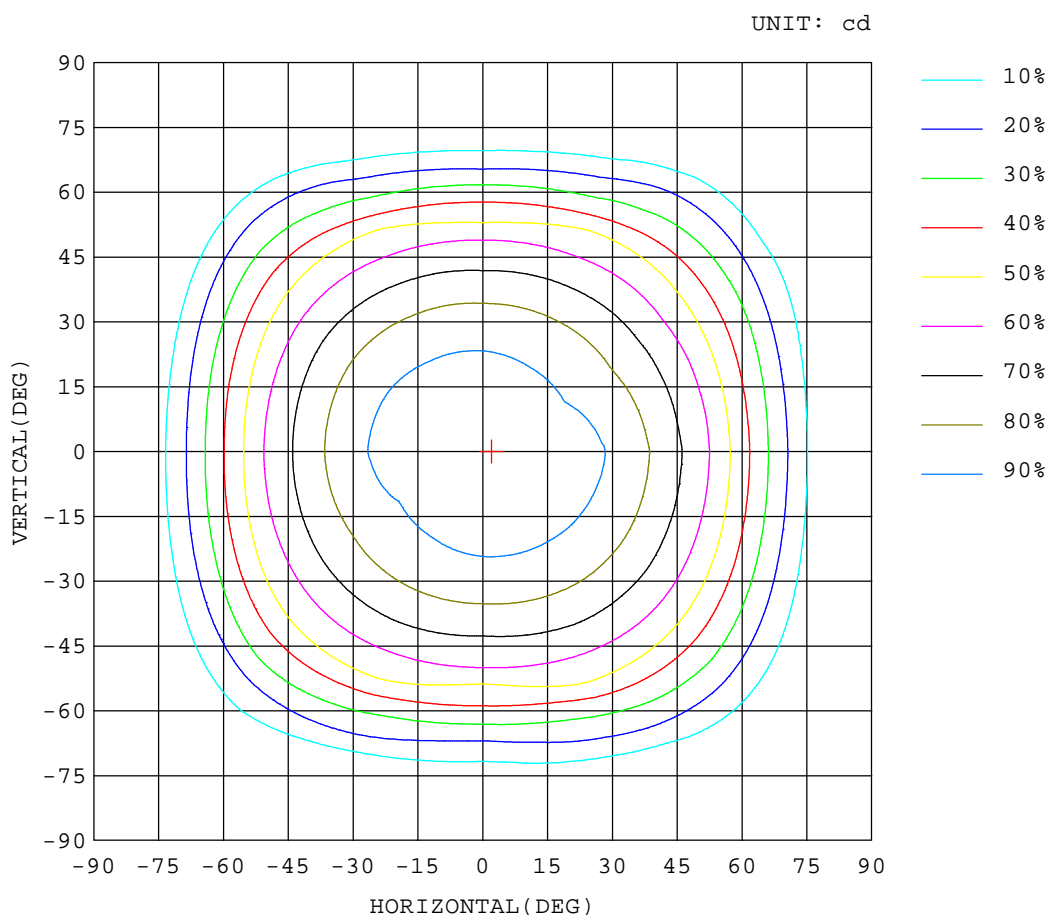
Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:5.690 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: LD-N20C	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:2019年03月28日

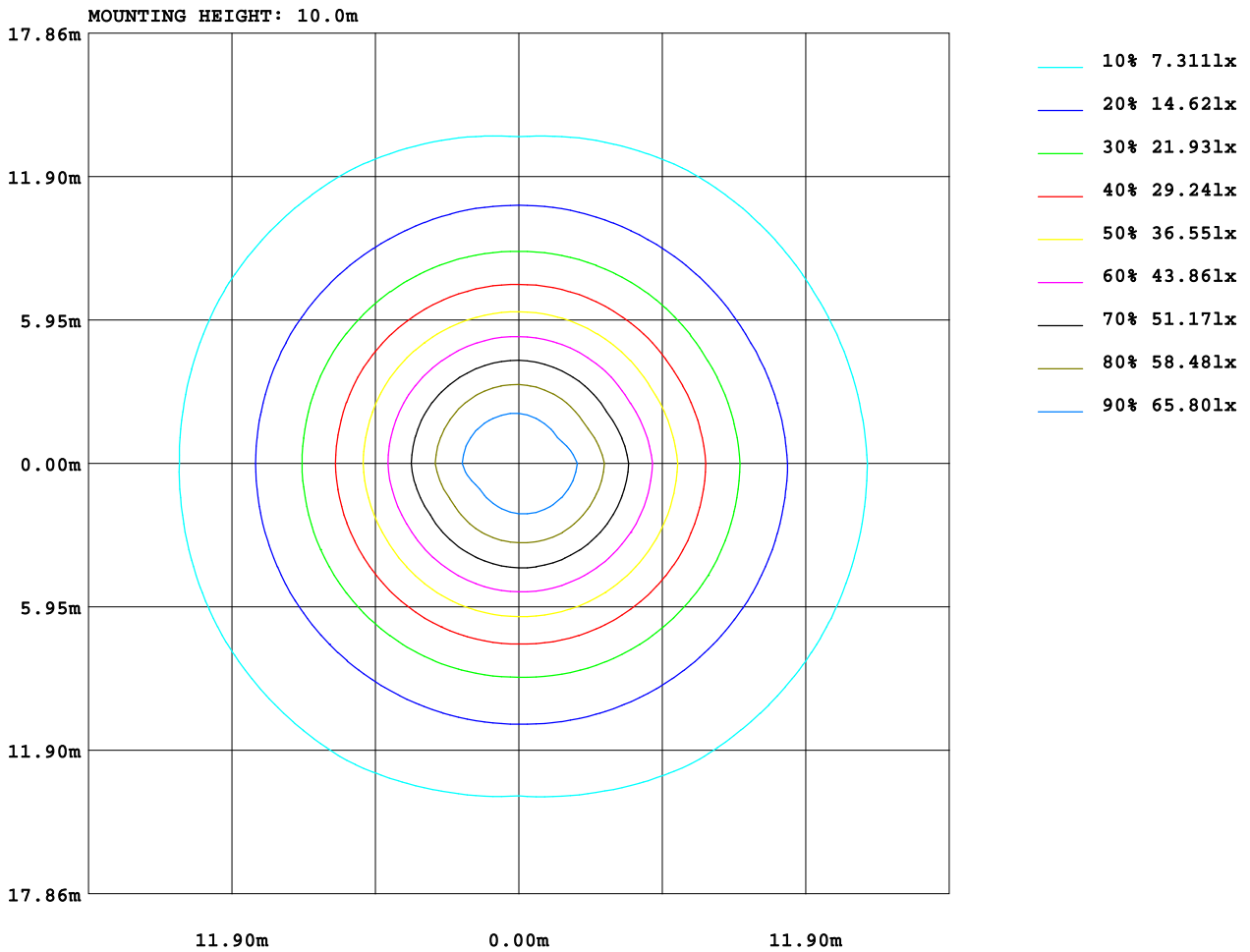
Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:5.690 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: LD-N20C	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:2019年03月28日

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:5.690 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

AREA LUMINOUS FLUX

Report number:

MANUFACTURER:	Address:	
NAME: LD-N20C	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a	
	0.02	0.09	0.21	0.32	0.35	0.35	0.38	0.46	0.53	0.54	0.48	0.41	0.38	0.39	0.35	0.26	0.15	0.05	5.71	0.00	
90	0.03	0.15	0.36	0.89	1.90	3.11	4.34	5.53	5.62	5.73	5.96	4.88	3.70	2.37	1.12	0.46	0.21	0.06	46.4	0.00	
80	0.04	0.21	1.56	6.20	14.7	25.8	36.2	44.0	47.6	47.6	44.2	36.5	26.6	15.8	7.18	2.24	0.36	0.06	357	312	
70	0.04	0.57	5.24	19.2	39.5	60.2	80.3	95.4	102	102	95.2	80.2	60.5	40.3	20.6	6.56	1.02	0.07	809	794	
60	0.05	1.41	11.0	34.0	62.6	92.7	118	136	145	145	135	117	92.4	62.9	35.4	12.9	2.19	0.08	1204	1195	
50	0.05	2.47	17.2	45.8	81.7	115	144	164	175	174	163	142	114	81.6	47.7	19.5	3.55	0.11	1491	1484	
40	0.06	3.56	22.0	55.2	94.6	132	163	185	196	195	183	161	130	95.2	57.7	24.8	4.99	0.15	1702	1698	
30	0.07	4.60	25.2	61.5	103	143	176	198	209	208	194	173	142	105	64.9	28.6	6.16	0.20	1842	1838	
20	0.08	5.22	26.8	64.6	107	148	182	206	217	214	204	182	150	111	69.1	30.8	6.85	0.23	1926	1922	
10	0.08	5.28	26.9	64.7	107	148	181	203	214	217	207	184	152	112	69.6	31.0	6.93	0.23	1930	1926	
0	0.07	4.78	25.6	61.9	103	142	173	195	208	210	200	178	146	108	66.4	29.3	6.38	0.21	1857	1853	
-10	0.06	3.82	22.7	56.1	94.8	131	162	184	197	198	187	166	136	99.2	60.1	25.9	5.34	0.17	1730	1725	
-20	0.05	2.72	18.2	47.4	83.0	116	144	165	176	177	168	148	120	86.8	50.7	21.1	3.90	0.12	1530	1524	
-30	0.05	1.64	12.4	36.1	65.5	95.6	121	138	148	148	141	124	99.3	68.6	38.9	14.9	2.50	0.08	1256	1248	
-40	0.04	0.78	6.35	22.2	43.3	65.5	86.5	101	108	109	103	90.0	68.7	46.1	24.9	8.15	1.32	0.07	885	873	
-50	0.03	0.22	2.40	8.33	19.0	31.8	44.1	53.0	56.7	57.3	54.9	46.8	35.0	21.7	10.1	3.32	0.46	0.06	446	413	
-60	0.03	0.13	0.38	1.66	3.47	5.92	8.35	11.1	12.0	12.3	12.2	9.99	7.13	4.51	2.32	0.68	0.19	0.05	92.6	23.4	
-70	0.02	0.09	0.19	0.31	0.47	0.65	0.74	0.72	0.66	0.67	0.75	0.79	0.72	0.52	0.33	0.22	0.14	0.05	8.04	0.00	
-80																					
-90																					
	Φ t	0.87	37.7	225	587	1026	1456	1825	2087	2217	2221	2098	1845	1485	1062	628	261	52.7	2.05	19356	
	Φ a	0.00	13.9	204	569	1009	1439	1809	2071	2204	2207	2082	1829	1469	1045	610	241	28.8	0.00		18822

Test System:HOPOO HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:2019年03月28日

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:5.690 m
 Remarks:

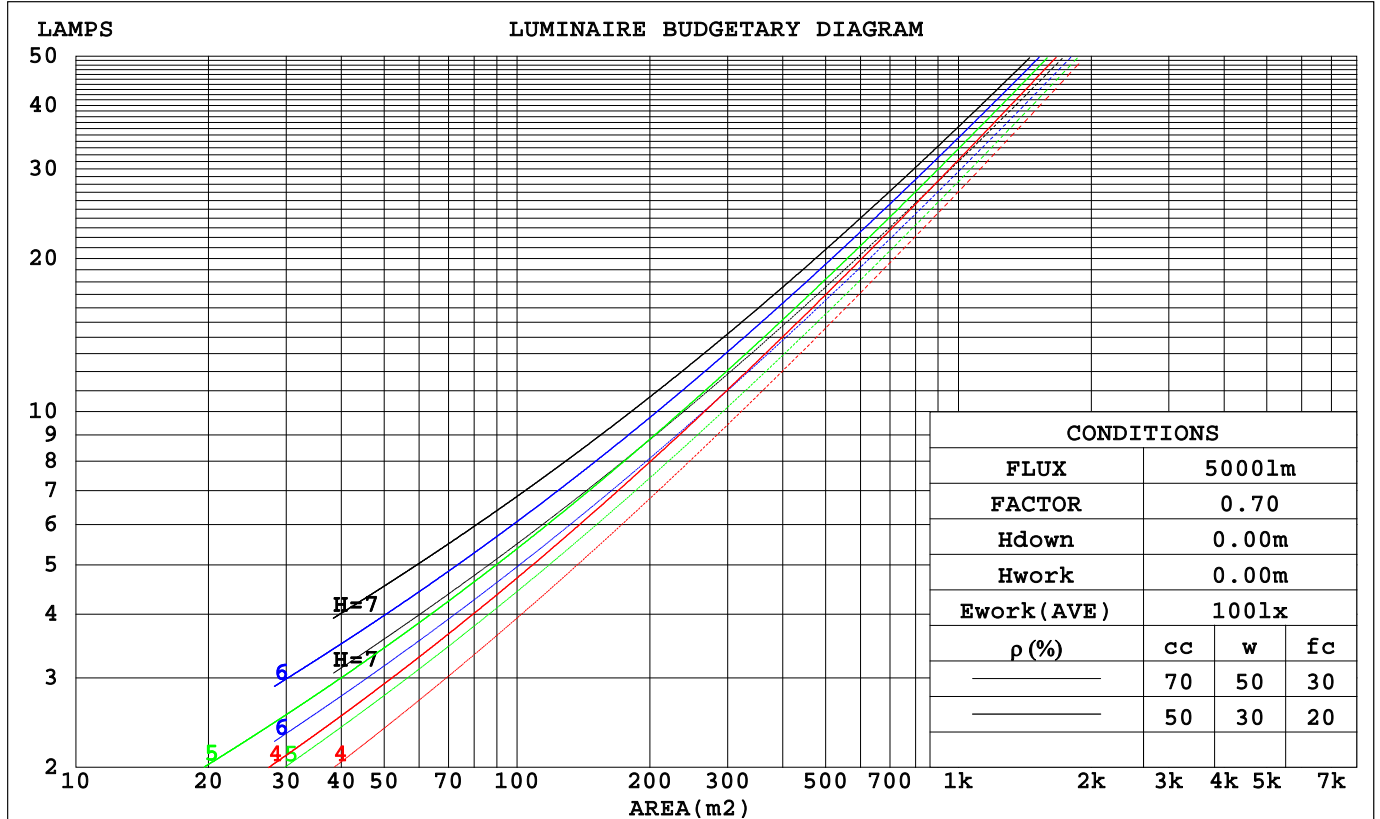
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:				Address:							
NAME: LD-N20C				TYPE:				WEIGHT:			
SPECIFICATION:				DIMENSION:				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	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	.99
1.0	1.06	1.02	.99	1.03	1.00	.97	.99	.96	.94	.95	.93	.91	.91	.89	.88	.86
2.0	.93	.87	.82	.91	.86	.81	.88	.83	.79	.84	.80	.77	.81	.78	.75	.73
3.0	.82	.75	.69	.81	.74	.68	.78	.72	.67	.75	.70	.66	.72	.68	.64	.62
4.0	.73	.65	.59	.72	.64	.58	.69	.63	.57	.67	.61	.56	.65	.60	.56	.53
5.0	.66	.57	.51	.64	.56	.50	.62	.55	.50	.60	.54	.49	.58	.53	.48	.46
6.0	.59	.50	.44	.58	.50	.44	.56	.49	.44	.54	.48	.43	.53	.47	.43	.41
7.0	.54	.45	.39	.53	.45	.39	.51	.44	.39	.50	.43	.38	.48	.42	.38	.36
8.0	.49	.41	.35	.48	.40	.35	.47	.40	.34	.45	.39	.34	.44	.38	.34	.32
9.0	.45	.37	.31	.44	.36	.31	.43	.36	.31	.42	.35	.31	.41	.35	.31	.29
10.0	.41	.34	.28	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.28	.26



Test System:HOPOO HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:2019年03月28日

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:5.690 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Report number:

MANUFACTURER:	Address:					
NAME: LD-N20C	TYPE:			WEIGHT:		
SPECIFICATION:	DIMENSION:			SERIAL No.:		

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 Coefficients(WEC)									
0.0																
1.0	.267	.152	.048	.260	.148	.047	.246	.141	.045	.234	.135	.043	.222	.129	.041	
2.0	.262	.144	.044	.255	.141	.043	.243	.135	.042	.232	.130	.041	.222	.126	.040	
3.0	.248	.132	.040	.243	.130	.039	.232	.126	.038	.222	.122	.037	.213	.118	.036	
4.0	.233	.121	.036	.228	.119	.035	.219	.116	.035	.210	.113	.034	.202	.110	.033	
5.0	.218	.111	.032	.214	.110	.032	.205	.107	.031	.197	.104	.031	.190	.102	.031	
6.0	.204	.102	.029	.200	.101	.029	.193	.099	.029	.186	.096	.028	.179	.094	.028	
7.0	.191	.095	.027	.188	.094	.027	.181	.092	.026	.175	.090	.026	.169	.088	.026	
8.0	.180	.088	.025	.177	.087	.025	.170	.085	.024	.165	.083	.024	.159	.082	.024	
9.0	.169	.082	.023	.166	.081	.023	.161	.079	.023	.156	.078	.022	.151	.077	.022	
10.0	.160	.077	.021	.157	.076	.021	.152	.074	.021	.147	.073	.021	.143	.072	.021	

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	.200	.200	.200	.171	.171	.171	.117	.117	.117	.067	.067	.067	.021	.021	.021	
1.0	.187	.166	.147	.160	.142	.127	.109	.098	.088	.063	.057	.051	.020	.018	.016	
2.0	.178	.142	.111	.152	.122	.096	.104	.084	.067	.060	.049	.039	.019	.016	.013	
3.0	.170	.124	.087	.146	.107	.075	.100	.074	.053	.058	.043	.031	.019	.014	.010	
4.0	.162	.110	.070	.139	.095	.061	.096	.066	.043	.055	.039	.025	.018	.013	.008	
5.0	.155	.100	.059	.134	.086	.051	.092	.060	.036	.053	.035	.021	.017	.012	.007	
6.0	.149	.091	.050	.128	.079	.044	.088	.055	.031	.051	.033	.018	.017	.011	.006	
7.0	.142	.084	.044	.122	.073	.038	.085	.051	.027	.049	.030	.016	.016	.010	.005	
8.0	.136	.079	.039	.117	.068	.034	.081	.048	.024	.047	.028	.014	.015	.009	.005	
9.0	.130	.074	.035	.112	.064	.031	.078	.045	.022	.045	.027	.013	.015	.009	.004	
10.0	.125	.069	.033	.108	.060	.028	.075	.042	.020	.044	.025	.012	.014	.008	.004	

Test System:HOPOO HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:2019年03月28日

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:5.690 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

Uncorrected UGR Table

Report number:

MANUFACTURER:						Address:				
NAME: LD-N20C						TYPE:			WEIGHT:	
SPECIFICATION:						DIMENSION:			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	31.1	32.6	31.4	32.8	33.0	30.6	32.0	30.9	32.3	32.5
3H	32.2	33.5	32.5	33.7	34.0	31.3	32.6	31.6	32.9	33.1
4H	32.4	33.6	32.7	33.9	34.2	31.3	32.6	31.6	32.8	33.1
6H	32.4	33.5	32.7	33.8	34.1	31.2	32.4	31.6	32.7	33.0
8H	32.3	33.4	32.7	33.7	34.1	31.2	32.3	31.5	32.6	32.9
12H	32.3	33.3	32.6	33.7	34.0	31.1	32.2	31.5	32.5	32.8
4H 2H	31.6	32.8	31.9	33.1	33.4	31.1	32.4	31.5	32.7	32.9
3H	32.7	33.8	33.1	34.1	34.4	32.0	33.0	32.3	33.3	33.7
4H	33.0	34.0	33.4	34.3	34.6	32.0	33.0	32.4	33.3	33.7
6H	33.0	33.9	33.4	34.2	34.6	31.9	32.8	32.3	33.1	33.5
8H	33.0	33.8	33.4	34.1	34.6	31.9	32.7	32.3	33.1	33.5
12H	32.9	33.7	33.4	34.1	34.5	31.8	32.6	32.3	33.0	33.4
8H 4H	33.0	33.7	33.4	34.1	34.5	32.0	32.8	32.5	33.2	33.6
6H	33.0	33.7	33.5	34.1	34.5	32.0	32.6	32.4	33.0	33.5
8H	33.0	33.6	33.5	34.0	34.5	31.9	32.5	32.4	32.9	33.4
12H	32.9	33.4	33.4	33.9	34.4	31.9	32.4	32.4	32.8	33.3
12H 4H	32.9	33.6	33.4	34.0	34.5	32.0	32.7	32.4	33.1	33.5
6H	33.0	33.5	33.4	34.0	34.5	31.9	32.5	32.4	32.9	33.4
8H	32.9	33.4	33.4	33.9	34.4	31.9	32.4	32.4	32.8	33.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.2					+ 0.3 / - 0.4				
1.5H	+ 0.3 / - 0.6					+ 0.4 / - 0.5				
2.0H	+ 0.6 / - 0.5					+ 0.7 / - 1.0				

CIE Pub.117 Corrected 19356 lm Total Lamp Luminous Flux.(8log(F/F0) = 10.3)

Test System:HOPOO HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:2019年03月28日

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:5.690 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER:	Address:		
NAME: LD-N20C	TYPE:	WEIGHT:	
SPECIFICATION:	DIMENSION:	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	59	48	41	58	48	41	57	47	41	34
0.80	70	59	52	69	58	51	67	57	51	44
1.00	79	68	61	77	68	61	75	69	60	54
1.25	86	76	70	84	75	69	82	74	68	61
1.50	91	82	75	89	81	75	86	79	74	66
2.00	97	90	84	96	89	83	92	86	81	74
2.50	101	94	89	99	93	88	95	90	86	78
3.00	104	98	93	102	96	92	98	93	90	81
4.00	108	103	99	105	101	97	101	97	94	86
5.00	110	106	102	107	104	100	103	100	97	88
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

Test System:HOPOO HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:2019年03月28日

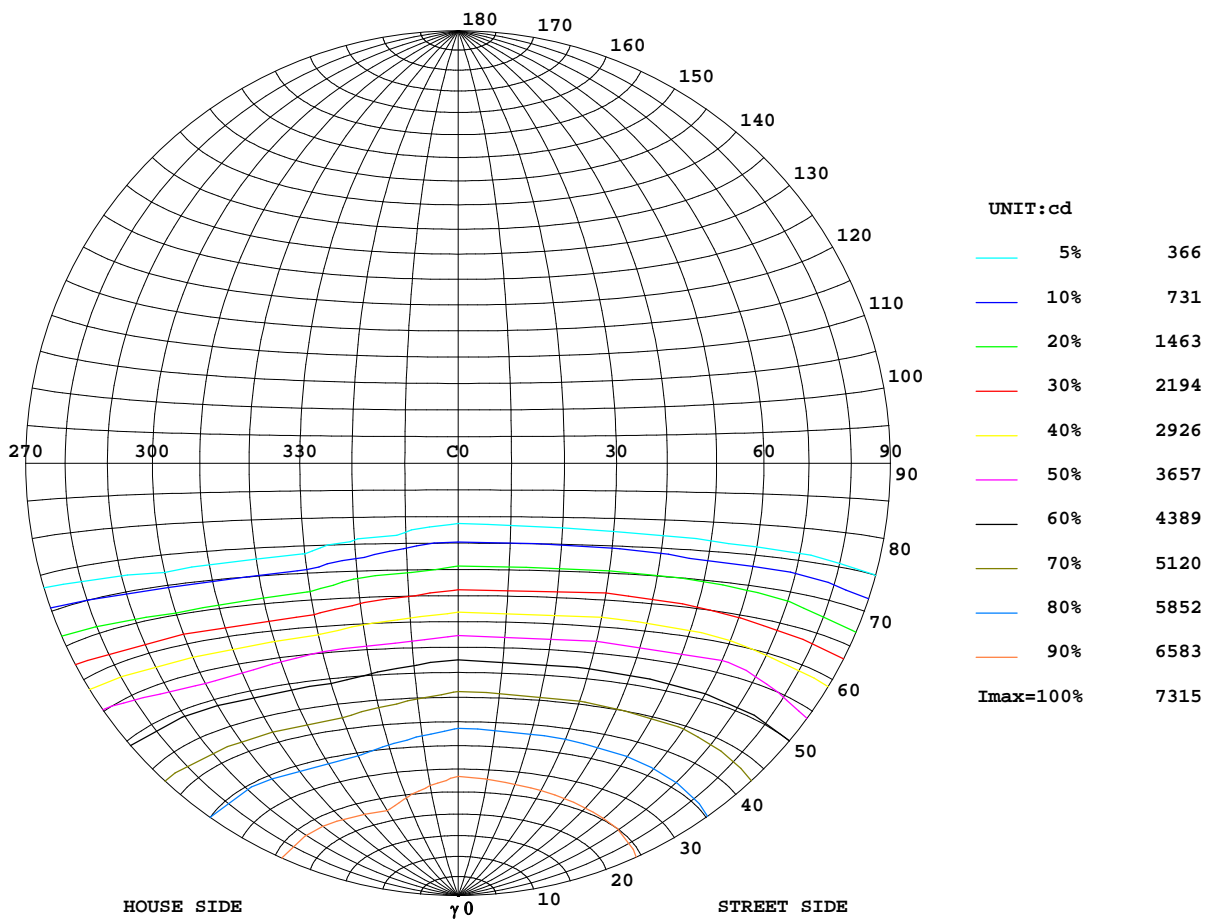
Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:5.690 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: LD-N20C	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:2019年03月28日

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:5.690 m
 Remarks:

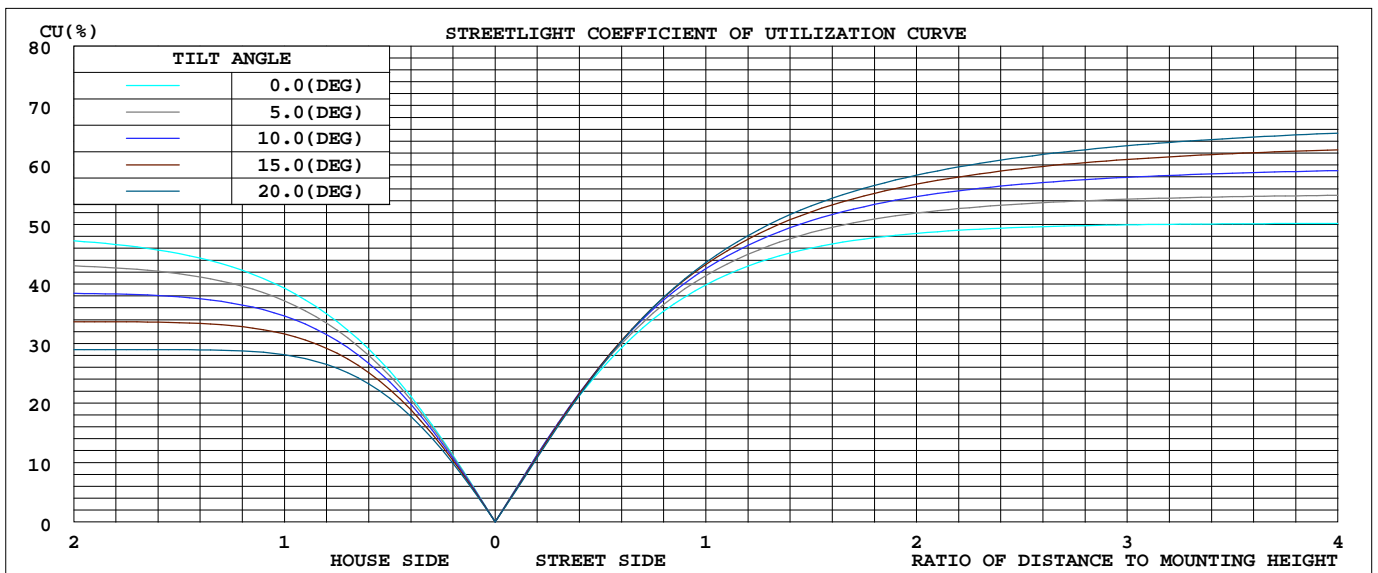
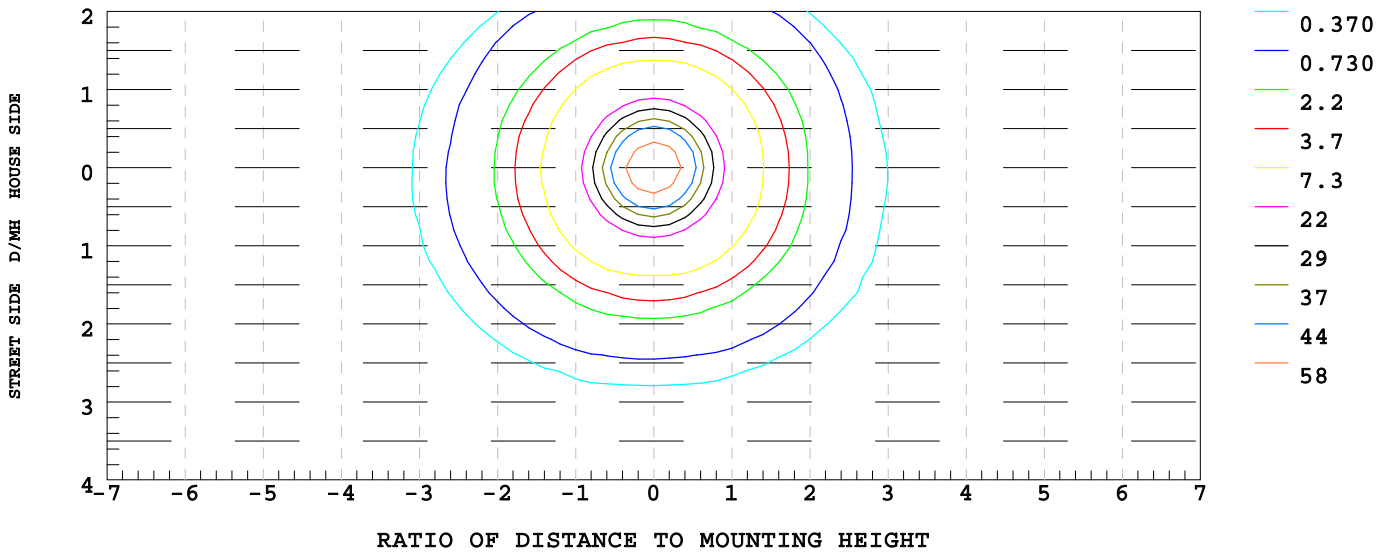
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: LD-N20C	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

ILLUMINANCE AT MH=10 m, Enadir = 73.11 lx



Test System:HOPOO HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:2019年03月28日

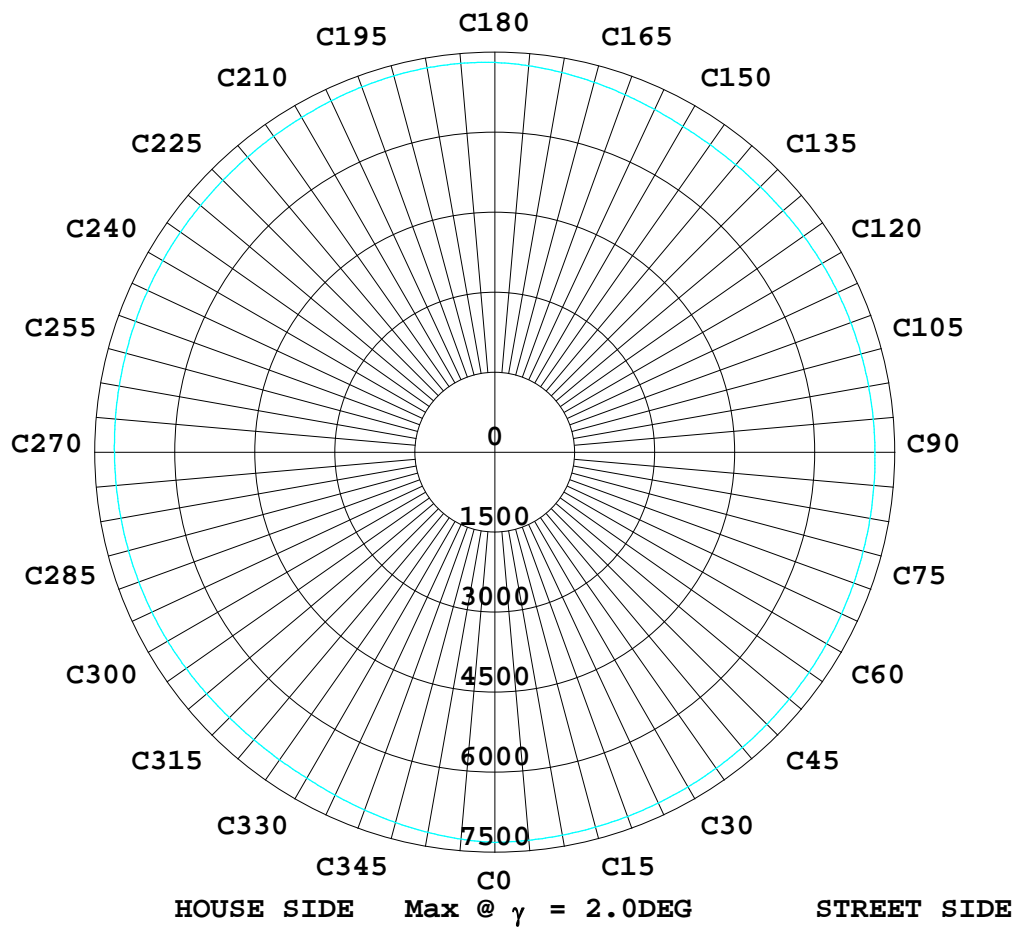
Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:5.690 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: LD-N20C	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:2019年03月28日

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:5.690 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:	Address:	
NAME: LD-N20C	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

UNIT: cd

γ (DEG)	C (DEG)											
	0	30	60	90	120	150	180	210	240	270	300	330
0.0	7311	7249	7196	7143	7092	7058	7311	7249	7196	7143	7092	7058
5.0	7307	7225	7175	7116	7066	7035	7293	7231	7181	7125	7082	7038
10.0	7254	7174	7114	7043	6998	6973	7218	7166	7095	7037	6990	6973
15.0	7137	7050	7004	6943	6893	6855	7082	7037	6968	6922	6873	6850
20.0	6966	6877	6811	6764	6706	6680	6906	6830	6785	6730	6686	6661
25.0	6768	6665	6599	6545	6493	6482	6678	6614	6538	6496	6448	6444
30.0	6492	6395	6320	6256	6214	6203	6370	6320	6231	6191	6156	6184
35.0	6148	6066	5969	5876	5867	5876	5982	5956	5851	5789	5792	5839
40.0	5729	5660	5551	5404	5448	5472	5539	5505	5406	5306	5354	5415
45.0	5232	5169	5048	4881	4940	4990	5018	5007	4861	4806	4825	4940
50.0	4692	4624	4492	4392	4393	4433	4456	4413	4290	4264	4271	4374
55.0	4030	4018	3946	3463	3846	3827	3705	3789	3691	3339	3682	3777
60.0	3231	3210	3003	2595	2917	3058	2893	2970	2722	2450	2726	2987
65.0	2377	2396	2135	1815	2064	2275	2041	2125	1721	1536	1750	2155
70.0	1559	1570	1355	1091	1166	1332	1281	1224	853	505	895	1286
75.0	812	653	492	363	473	579	528	460	262	98.6	281	502
80.0	239	220	46.4	33.7	45.4	202	94.3	78.7	25.9	29.8	27.8	102
85.0	32.8	20.8	30.7	18.7	28.3	19.4	17.1	25.9	13.3	17.9	14.7	28.3
90.0	16.9	13.8	20.2	11.8	18.8	10.6	8.09	13.7	7.89	10.5	7.77	13.7
95.0	15.5	12.7	14.3	9.80	14.3	13.1	11.4	15.4	10.5	12.2	10.2	15.0
100.0	19.2	17.3	17.4	13.8	17.5	17.7	15.7	18.7	14.7	15.3	14.2	18.0
105.0	24.5	22.7	22.5	19.6	22.6	23.0	21.1	22.7	20.1	20.0	19.3	22.2
110.0	30.4	28.0	28.0	25.7	28.1	27.9	26.5	27.2	25.0	25.4	24.3	26.7
115.0	36.0	33.6	32.6	31.9	32.7	33.0	31.9	31.5	30.0	30.5	29.3	30.8
120.0	41.5	38.8	37.3	37.2	37.3	37.7	37.2	35.9	35.0	36.0	34.4	35.2
125.0	46.4	43.2	41.6	41.9	41.4	41.6	42.0	40.2	39.4	40.9	38.5	39.4
130.0	51.0	47.4	45.8	46.5	45.3	45.2	46.6	44.3	43.5	45.1	42.6	43.6
135.0	55.5	51.4	49.8	51.0	49.1	48.7	50.7	48.5	47.8	49.2	46.9	47.5
140.0	59.3	54.9	53.4	54.8	52.4	51.9	54.4	52.8	51.6	53.3	51.0	51.0
145.0	62.5	58.3	57.0	58.1	55.6	55.2	58.1	56.6	55.7	56.9	55.2	54.4
150.0	65.4	61.4	60.8	61.2	58.4	58.8	61.7	60.4	59.4	60.5	59.2	57.4
155.0	68.2	64.4	64.5	64.6	61.0	62.2	64.9	64.1	62.4	63.3	62.6	60.2
160.0	70.8	67.7	68.0	68.3	64.0	65.6	68.4	67.5	65.3	66.5	66.0	63.2
165.0	73.8	71.7	71.6	72.1	68.3	68.9	72.5	70.9	68.9	70.2	68.7	67.4
170.0	76.8	75.4	75.1	75.7	72.8	72.0	76.6	74.2	73.0	73.9	71.6	71.9
175.0	79.3	77.2	76.9	78.4	75.1	73.9	79.7	76.4	76.5	77.6	74.5	74.4
180.0	80.4	78.2	77.8	79.4	76.0	75.6	81.0	77.8	78.1	79.1	76.1	75.6

Test System:HOPOO HPG1600
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