

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

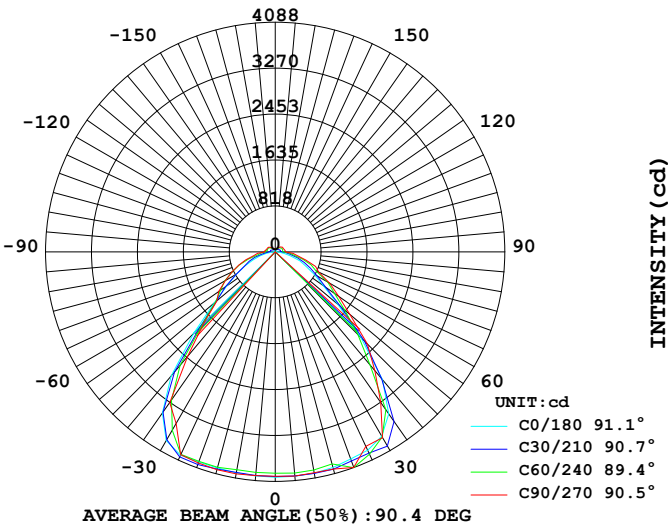
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

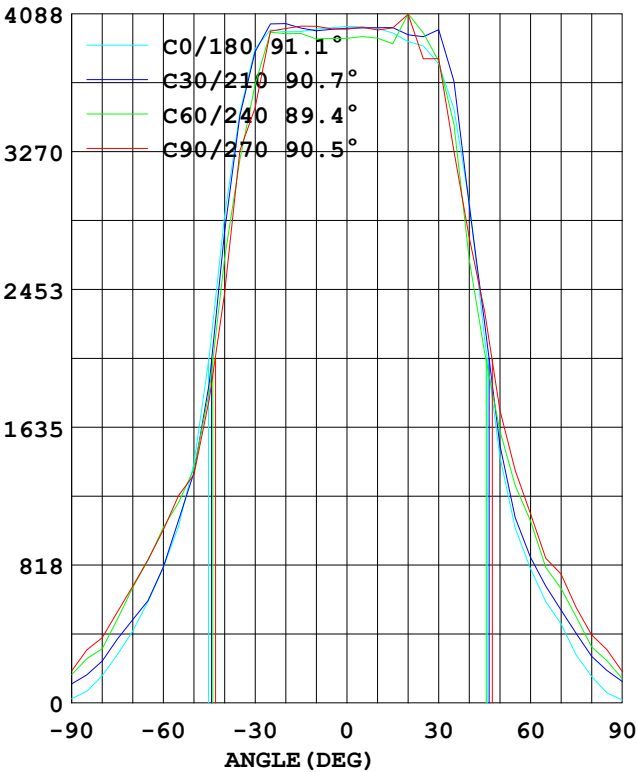
MANUFACTURER:		
Address:		
NAME: RE-RIP5S3-68N1WD-PC-00	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1438*65mm	SERIAL No.:

DATA OF LAMP		Imax(cd)	4088	S/MH(C0/180)	1.29
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	1.23
NOMINAL POWER(W)	68	TOTAL FLUX(lm)	10069	Voltage(V)	219.8
RATED VOLTAGE(V)	220	EFFICIENCY(lm/W)	150.3	Current(A)	0.308
NOMINAL FLUX(lm)	10068.6	η up(%)	5.6	Power(W)	67.01
LAMPS QUANTITY	1	η down(%)	94.4	Power Factor(PF)	0.988
TEST VOLTAGE(V)	219.8	Effective Flux(lm)	9141.2	EEI	0.100

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022年09月24日

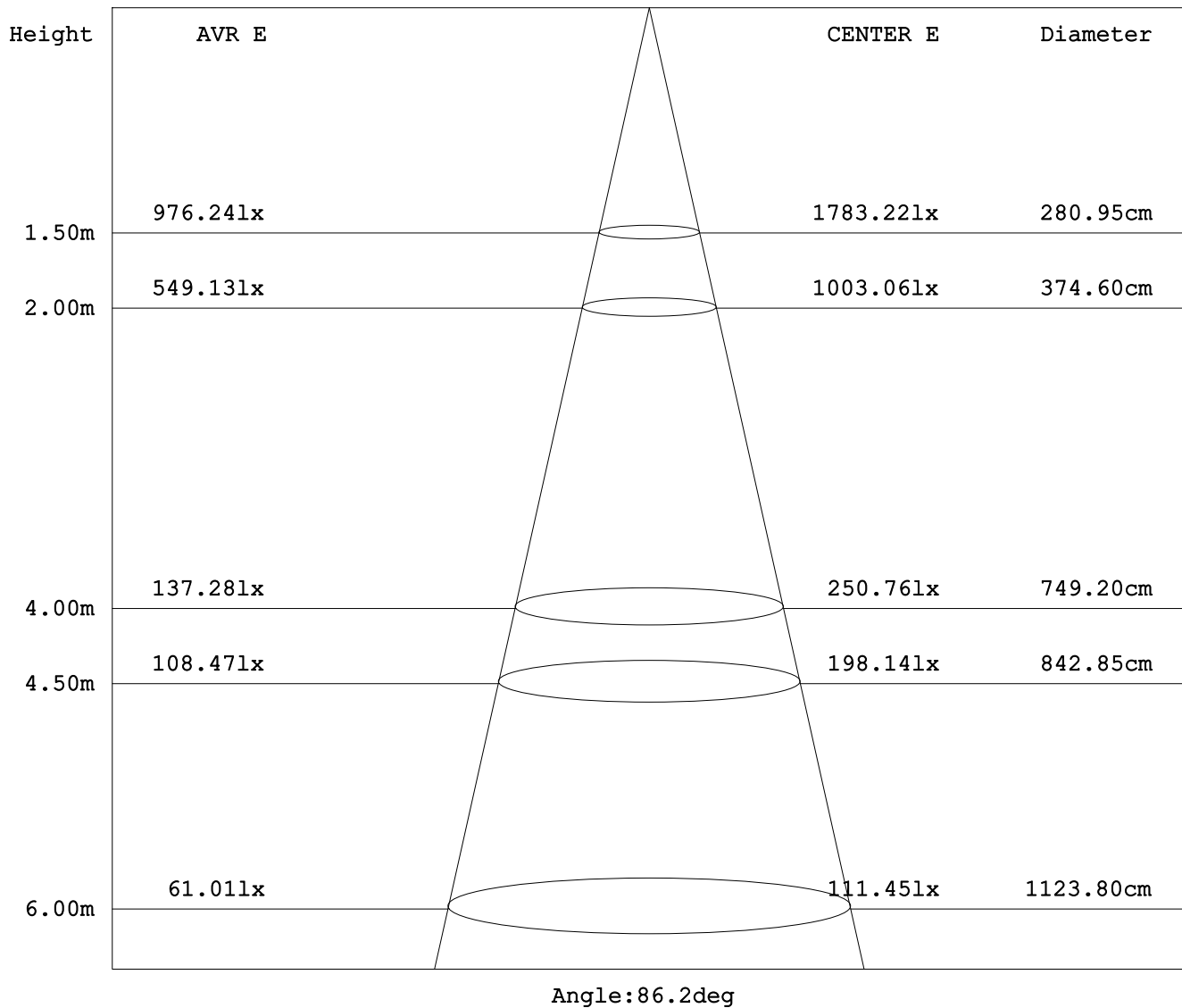
Test Set: 10.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:		
Address:		
NAME: RE-RIP5S3-68N1WD-PC-00	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1438*65mm	SERIAL No.:



Test System: HOPOO HPG1800
Temperature: 25.3DEG
Operators:
Test Date: 2022年09月24日

Test Set: 10.0deg/s C-Gamma (TYPE C)
Humidity: 65.0%
Test Distance: 11.000 m
Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: RE-RIP5S3-68N1WD-PC-00	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1438*65mm	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
10.0	3997	3962	4013	3956	4001	3974	3992	3951	0- 10	379.5	379.5
20.0	3981	4000	4000	3947	3923	4025	4084	4024	10- 20	1128	1508
30.0	3880	3765	3530	3709	3790	3899	3821	3926	20- 30	1816	3324
40.0	2884	2712	2426	2713	2973	2789	2759	2859	30- 40	2100	5424
50.0	1422	1377	1354	1377	1461	1573	1737	1581	40- 50	1603	7027
60.0	803.8	923.4	1027	906.4	797.1	972.3	1123	956.8	50- 60	1061	8088
70.0	426.8	589.5	692.1	553.9	469.3	615.2	765.0	587.2	60- 70	738.0	8826
80.0	162.0	284.7	386.3	274.6	156.8	304.6	404.0	294.2	70- 80	459.1	9285
90.0	24.92	139.8	189.8	132.7	16.69	135.5	185.1	128.9	80- 90	223.2	9508
100.0	15.48	114.8	175.9	106.8	10.52	112.7	174.7	106.7	90-100	124.8	9633
110.0	18.27	117.9	157.6	109.0	14.88	116.0	159.5	107.5	100-110	111.2	9745
120.0	22.14	104.7	153.5	102.1	21.41	109.7	154.8	98.31	110-120	100.5	9845
130.0	28.07	85.06	129.2	84.94	27.58	89.66	136.0	78.95	120-130	81.55	9927
140.0	32.79	65.76	98.25	69.21	33.75	71.51	107.4	61.95	130-140	58.63	9985
150.0	38.11	57.59	70.66	61.04	38.59	58.80	75.26	52.87	140-150	38.66	10024
160.0	42.22	56.74	65.82	58.20	43.19	51.54	61.46	48.58	150-160	25.62	10050
170.0	45.61	51.00	55.17	50.88	45.61	46.34	50.69	45.25	160-170	14.51	10064
180.0	47.18	45.73	45.01	45.25	47.18	45.85	46.46	45.37	170-180	4.504	10069
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

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Temperature:25.3DEG
Operators:
Test Date:2022年09月24日

Test Set: 10.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks:

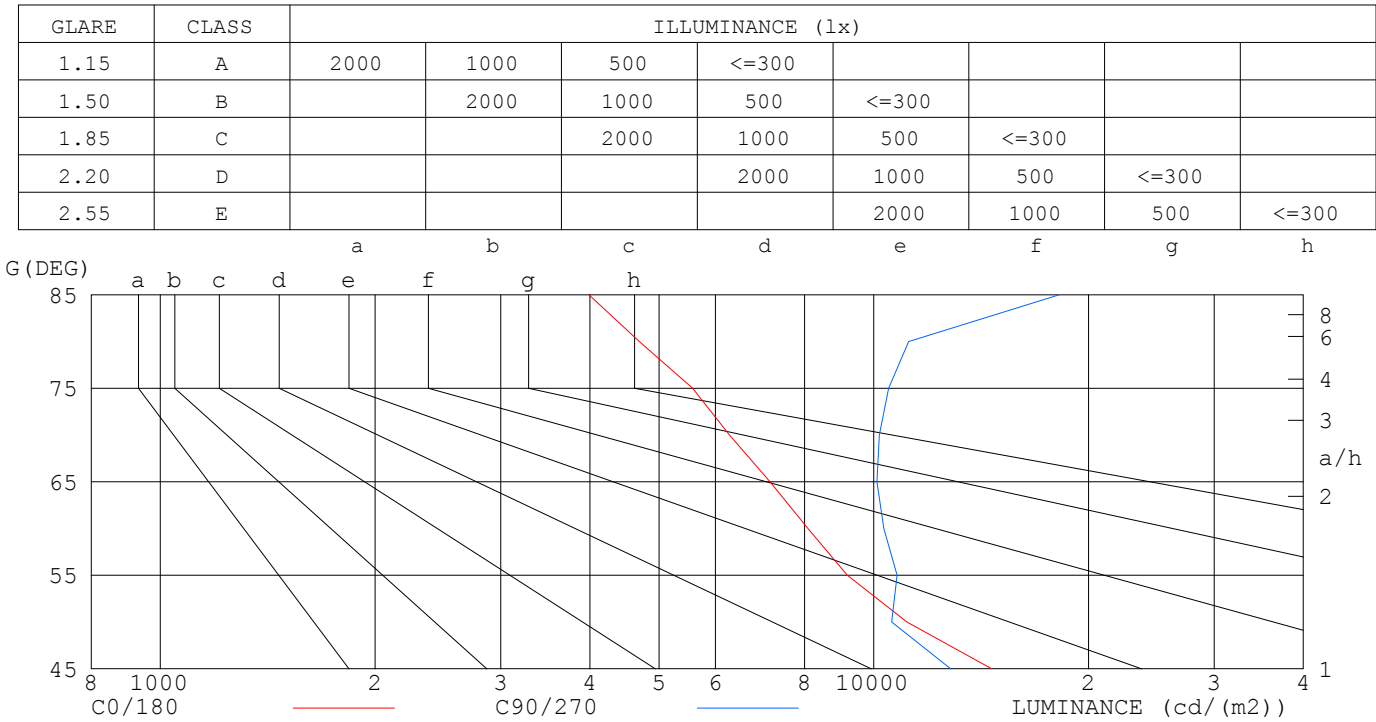
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:		
Address:		
NAME: RE-RIP5S3-68N1WD-PC-00	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1438*65mm	SERIAL No.:

LUMINANCE LIMITATION CURVES



LUMINANCE cd/ (m2)		
G (DEG)	C0/180	C90/270
85	3988	18185
80	4693	11192
75	5573	10493
70	6278	10179
65	7155	10102
60	8087	10328
55	9183	10781
50	11125	10596
45	14642	12822

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022年09月24日

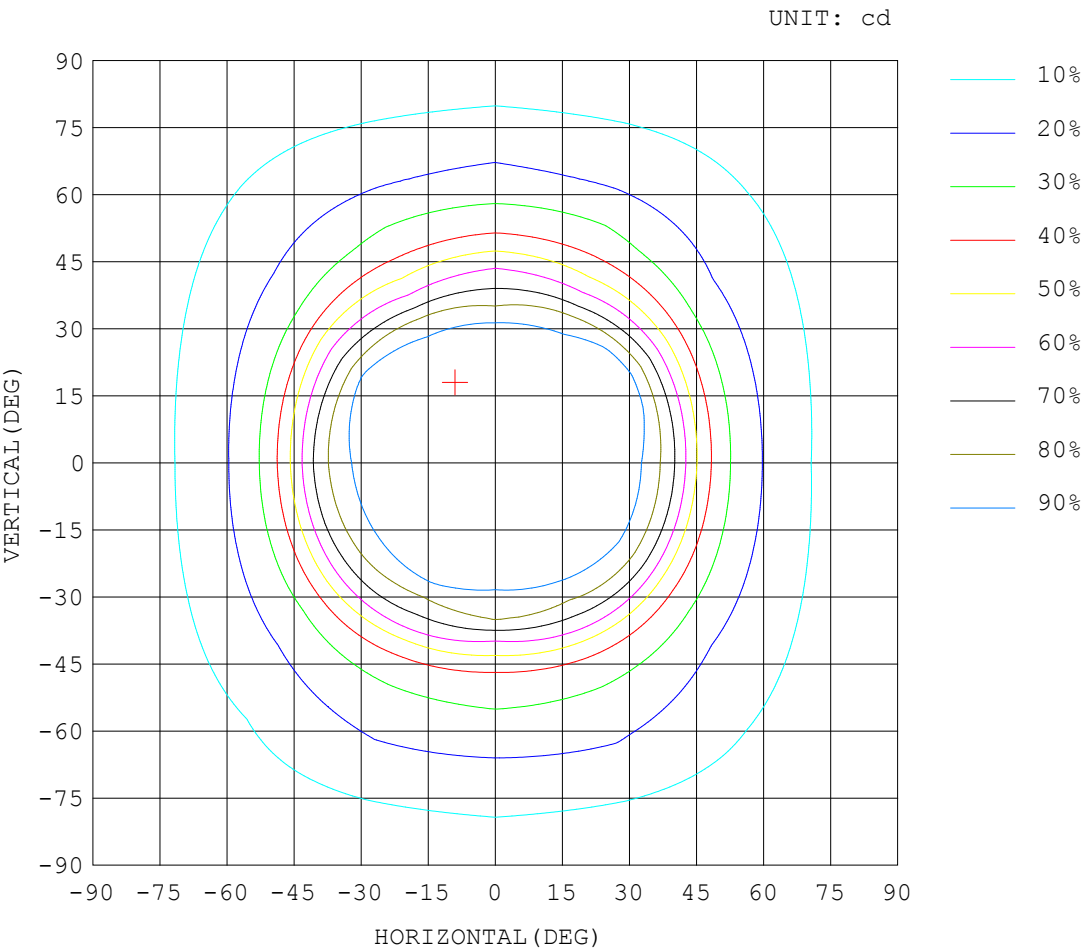
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Humidity:65.0%
Test Distance:11.000 m
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HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number:

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Address:		
NAME: RE-RIP5S3-68N1WD-PC-00	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1438*65mm	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022年09月24日

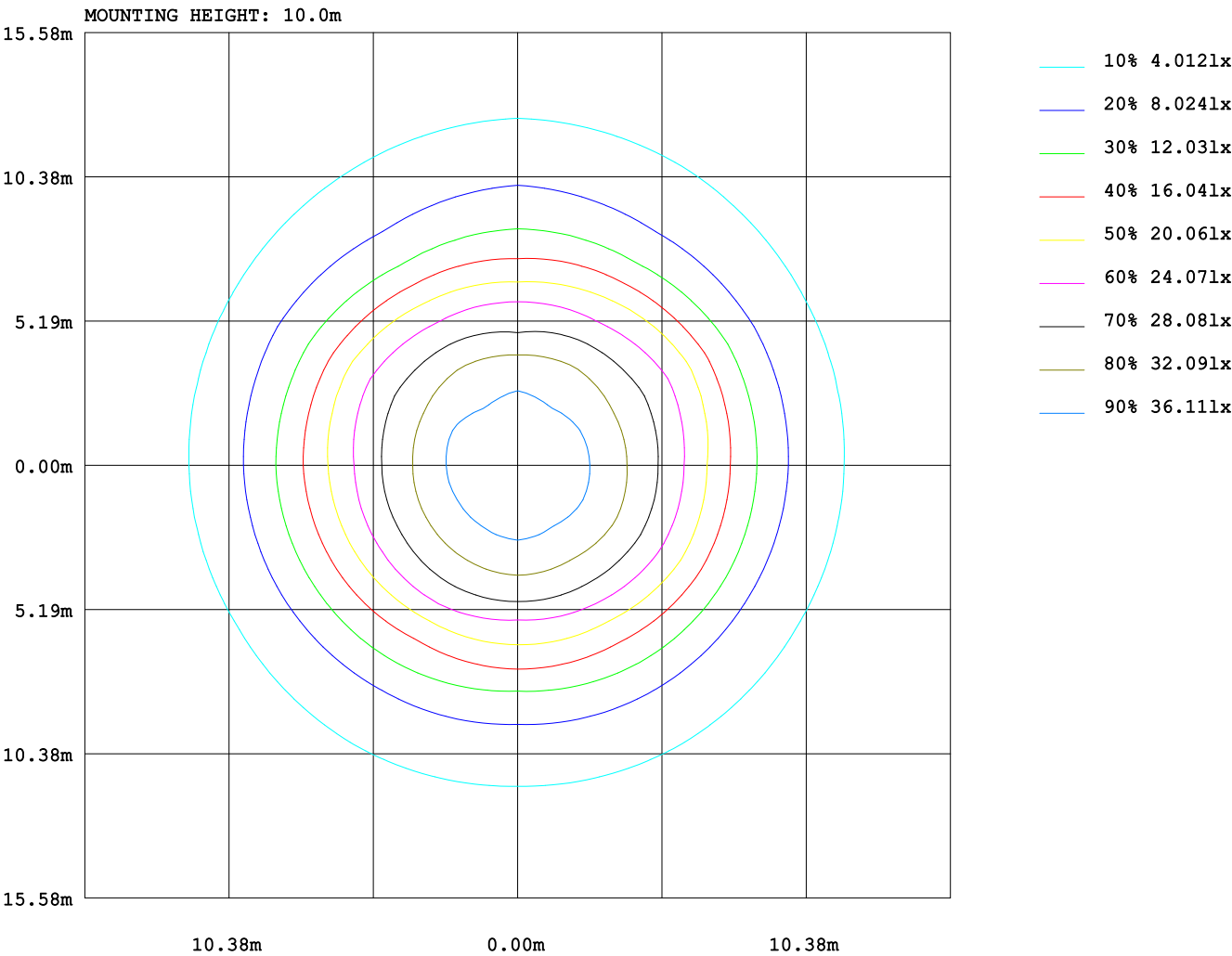
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Humidity:65.0%
Test Distance:11.000 m
Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: RE-RIP5S3-68N1WD-PC-00	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1438*65mm	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022年09月24日

Test Set: 10.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

AREA LUMINOUS FLUX

Report number:

MANUFACTURER:																			
Address:																			
NAME: RE-RIP5S3-68N1WD-PC-00										TYPE:					WEIGHT:				
SPECIFICATION:										DIMENSION: 1438*65mm					SERIAL No.:				

90 80 70 60 50 40 30
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Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022年09月24日

Test Set: 10.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks:

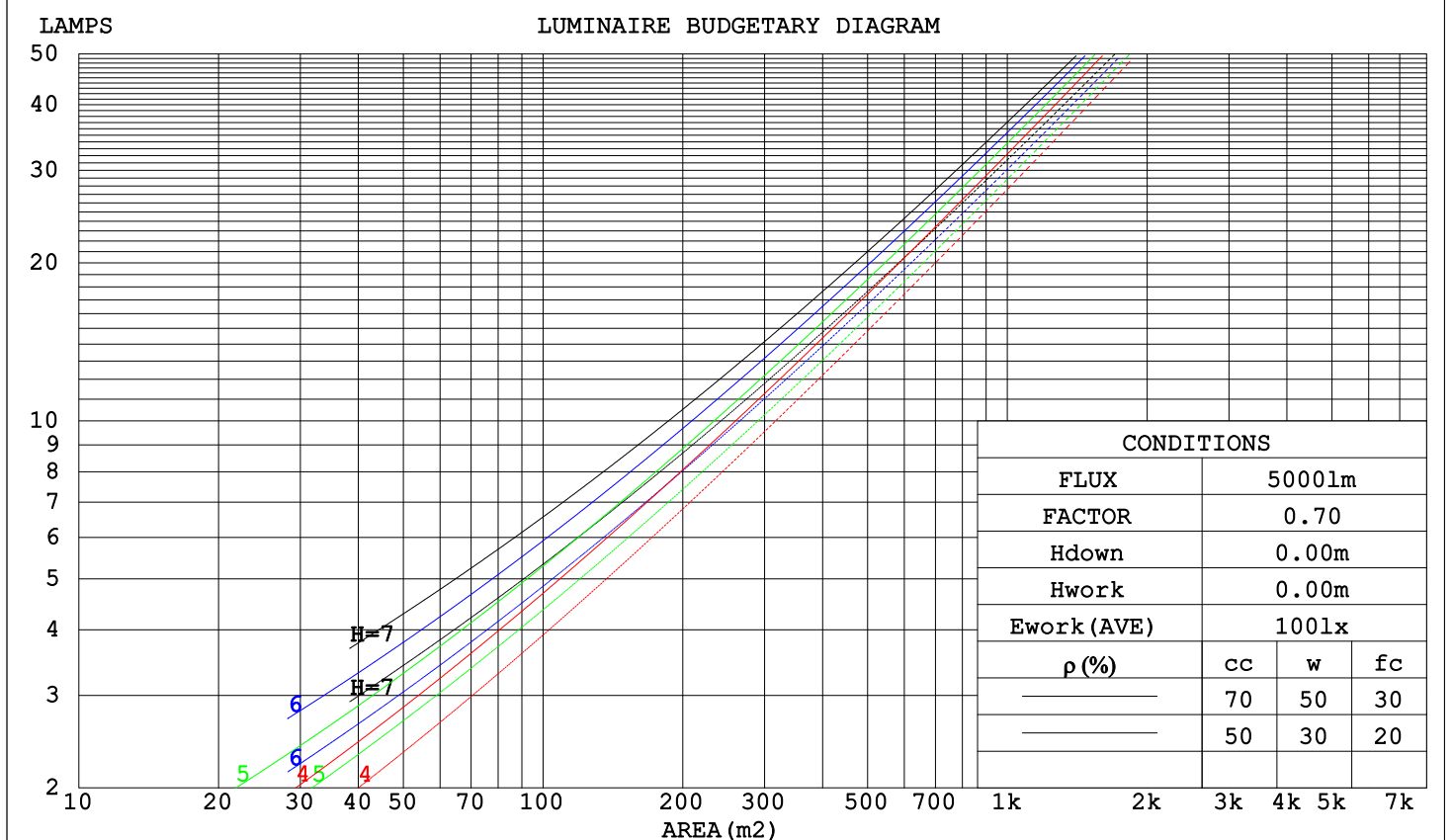
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:															
Address:															
NAME: RE-RIP5S3-68N1WD-PC-00								TYPE:				WEIGHT:			
SPECIFICATION:								DIMENSION: 1438*65mm				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															



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Test Set: 10.0deg/s C-Gamma (TYPE C)
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 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Report number:

MANUFACTURER:															
Address:															
NAME: RE-RIP5S3-68N1WD-PC-00								TYPE:				WEIGHT:			
SPECIFICATION:								DIMENSION: 1438*65mm				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	.282	.160	.051	.273	.156	.049	.257	.147	.047	.242	.139	.045	.228	.132	.043	
2.0	.262	.144	.044	.255	.140	.043	.240	.134	.041	.227	.127	.040	.215	.121	.038	
3.0	.243	.129	.039	.236	.127	.038	.224	.121	.037	.212	.116	.036	.201	.111	.034	
4.0	.226	.117	.034	.220	.115	.034	.208	.110	.033	.198	.106	.032	.188	.102	.031	
5.0	.210	.107	.031	.205	.105	.031	.195	.101	.030	.185	.098	.029	.176	.094	.028	
6.0	.196	.098	.028	.191	.097	.028	.182	.093	.027	.174	.090	.027	.166	.087	.026	
7.0	.184	.091	.026	.179	.089	.025	.171	.087	.025	.163	.084	.024	.156	.081	.024	
8.0	.173	.084	.024	.169	.083	.023	.161	.081	.023	.154	.078	.023	.148	.076	.022	
9.0	.163	.079	.022	.159	.078	.022	.152	.075	.021	.146	.073	.021	.140	.071	.021	
10.0	.154	.074	.020	.151	.073	.020	.144	.071	.020	.138	.069	.020	.133	.067	.019	

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	.233	.233	.233	.199	.199	.199	.136	.136	.136	.078	.078	.078	.025	.025	.025	
1.0	.221	.199	.179	.189	.171	.154	.129	.118	.107	.074	.068	.062	.024	.022	.020	
2.0	.211	.175	.145	.181	.151	.125	.124	.104	.087	.072	.061	.051	.023	.020	.017	
3.0	.203	.157	.121	.174	.136	.105	.119	.094	.074	.069	.055	.043	.022	.018	.014	
4.0	.195	.144	.105	.167	.124	.091	.115	.087	.064	.066	.051	.038	.021	.017	.013	
5.0	.187	.133	.094	.161	.115	.082	.111	.081	.058	.064	.047	.034	.021	.015	.011	
6.0	.180	.125	.085	.155	.108	.074	.107	.076	.053	.062	.045	.031	.020	.015	.010	
7.0	.174	.118	.079	.149	.102	.069	.103	.072	.049	.060	.042	.029	.019	.014	.010	
8.0	.168	.112	.074	.144	.097	.065	.100	.068	.046	.058	.040	.027	.019	.013	.009	
9.0	.162	.107	.071	.139	.093	.062	.097	.065	.044	.056	.039	.026	.018	.013	.009	
10.0	.157	.103	.068	.135	.090	.059	.094	.063	.042	.055	.037	.025	.018	.012	.008	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
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 Test Date:2022年09月24日

Test Set: 10.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:11.000 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

Uncorrected UGR Table

Report number:

MANUFACTURER:											
Address:											
NAME: RE-RIP5S3-68N1WD-PC-00					TYPE:			WEIGHT:			
SPECIFICATION:					DIMENSION: 1438*65mm			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	19.3	20.7	19.7	21.0	21.3	20.0	21.3	20.4	21.6	21.9	
	20.1	21.4	20.5	21.7	22.0	21.5	22.7	21.9	23.0	23.4	
	20.5	21.6	20.9	22.0	22.3	22.2	23.3	22.6	23.7	24.0	
	20.7	21.8	21.1	22.1	22.5	22.8	23.9	23.2	24.2	24.6	
	20.7	21.7	21.1	22.1	22.5	23.2	24.3	23.6	24.6	25.0	
	20.7	21.7	21.1	22.1	22.5	23.7	24.6	24.1	25.0	25.4	
4H 2H	19.8	20.9	20.2	21.3	21.6	20.4	21.5	20.8	21.9	22.2	
	20.8	21.8	21.3	22.2	22.6	22.1	23.1	22.6	23.5	23.9	
	21.3	22.2	21.8	22.6	23.1	22.9	23.8	23.4	24.2	24.7	
	21.6	22.4	22.1	22.9	23.4	23.7	24.5	24.2	24.9	25.4	
	21.7	22.5	22.2	22.9	23.4	24.2	25.0	24.7	25.5	26.0	
	21.8	22.5	22.3	22.9	23.5	24.8	25.5	25.3	26.0	26.5	
8H 4H	21.7	22.4	22.1	22.9	23.4	23.1	23.8	23.6	24.3	24.8	
	22.2	22.8	22.7	23.3	23.8	24.1	24.7	24.6	25.2	25.7	
	22.3	22.9	22.9	23.4	24.0	24.8	25.3	25.3	25.9	26.4	
	22.5	23.0	23.1	23.5	24.1	25.5	26.0	26.1	26.5	27.1	
12H 4H	21.7	22.4	22.2	22.9	23.4	23.1	23.7	23.6	24.2	24.7	
	22.3	22.9	22.9	23.4	24.0	24.1	24.7	24.7	25.2	25.7	
	22.6	23.1	23.2	23.6	24.2	24.9	25.4	25.5	25.9	26.5	
Variations with the observer position at spacings:											
S = 1.0H	+ 0.4 / - 0.5					+ 0.2 / - 0.3					
1.5H	+ 0.6 / - 0.4					+ 0.2 / - 0.2					
2.0H	+ 1.0 / - 0.6					+ 0.2 / - 0.2					

CIE Pub.117 Corrected 10069 lm Total Lamp Luminous Flux. (8log(F/F0) = 8.0)

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2022年09月24日

Test Set: 10.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:11.000 m
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HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER:		
Address:		
NAME: RE-RIP5S3-68N1WD-PC-00	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1438*65mm	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) $k(RI) \times RCR = 5$									
$k = 0.60$	63	53	46	62	52	46	61	52	46	40
0.80	72	62	56	71	62	55	69	61	55	49
1.00	80	70	64	79	69	63	76	70	62	56
1.25	86	77	71	85	76	70	82	74	69	62
1.50	91	82	76	89	81	75	85	79	74	66
2.00	97	89	83	94	87	82	90	85	80	72
2.50	100	93	87	98	91	86	93	88	84	75
3.00	103	96	91	100	95	90	96	91	87	78
4.00	106	101	97	103	99	95	98	95	92	82
5.00	108	104	100	105	101	98	100	97	94	84
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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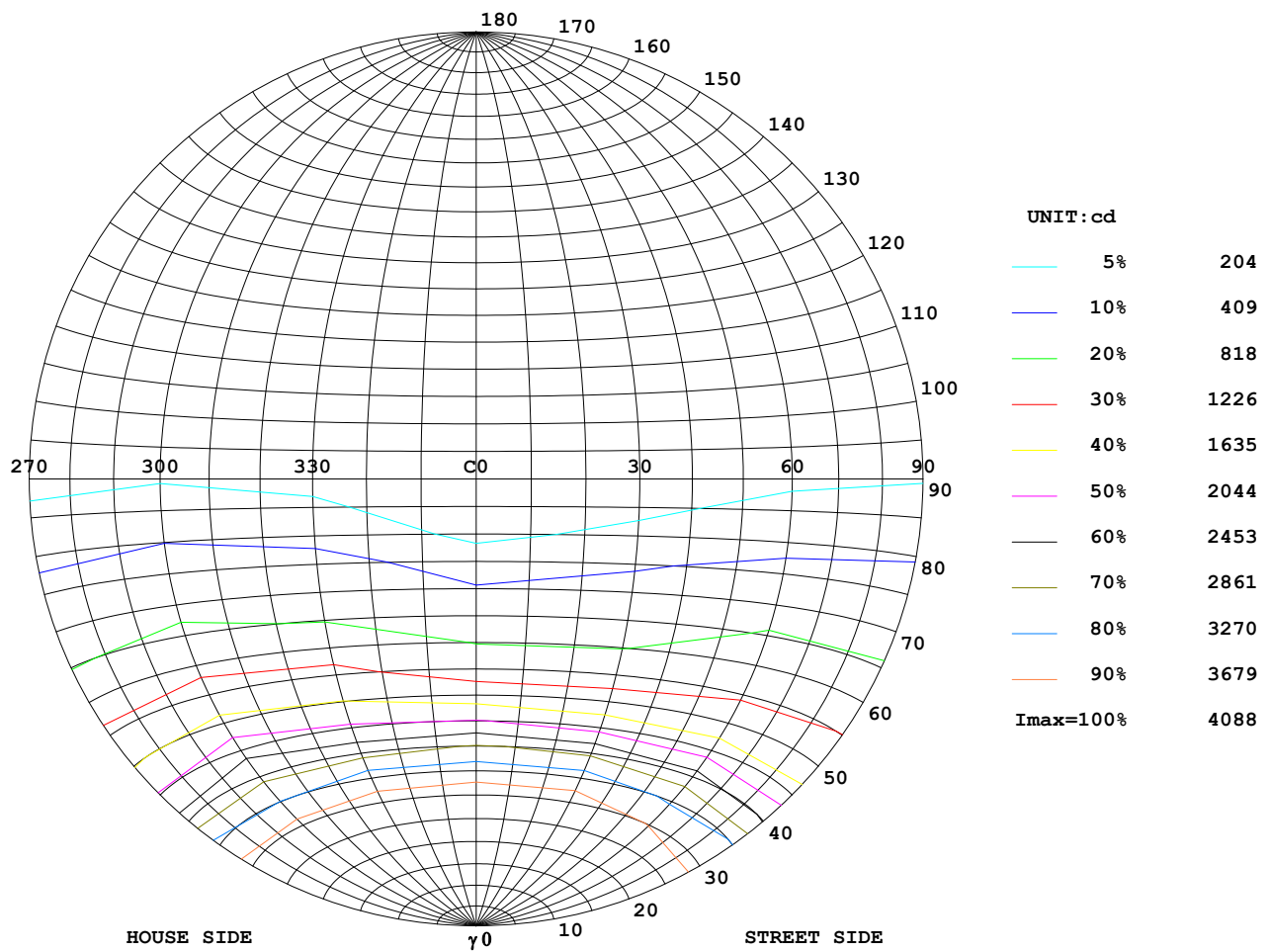
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ISOCANDELA DIAGRAM

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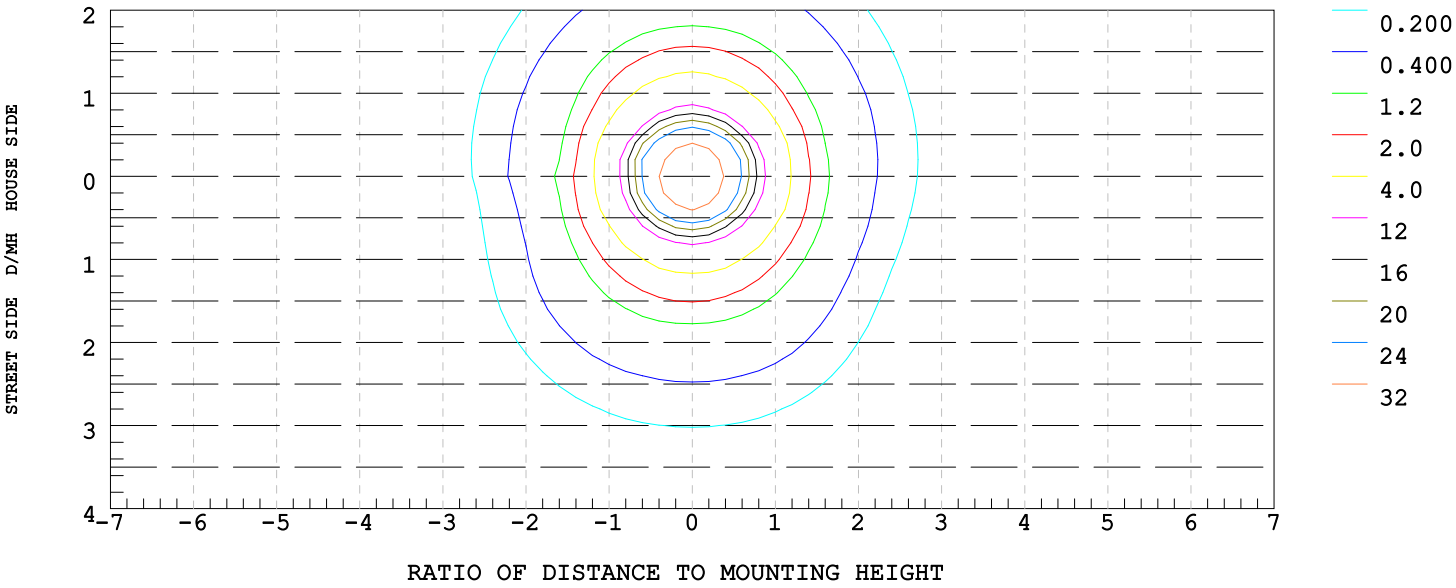
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: RE-RIP5S3-68N1WD-PC-00	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1438*65mm	SERIAL No.:

ILLUMINANCE AT MH=10 m,Enadir = 40.12 lx



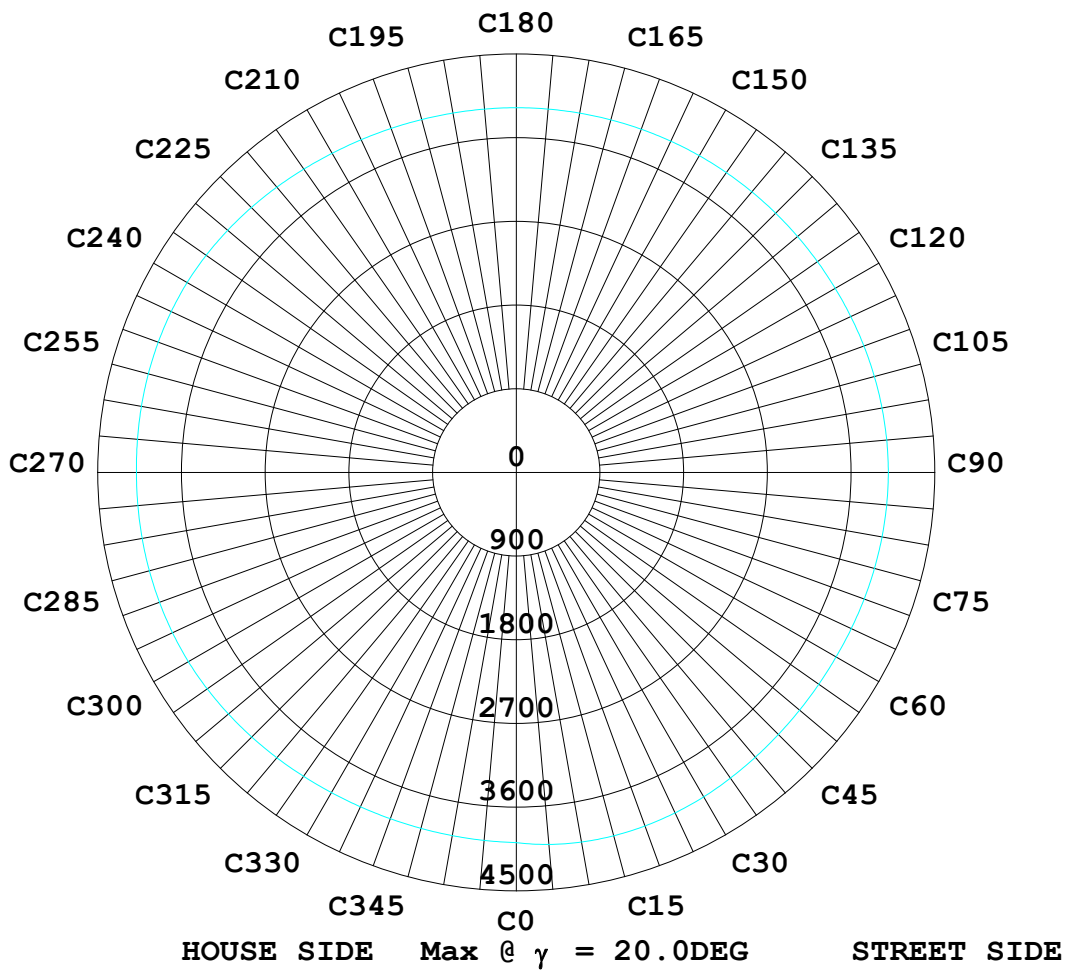
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