

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

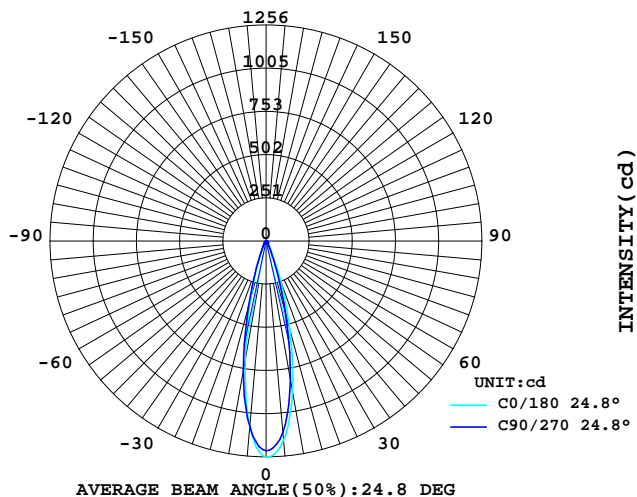
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

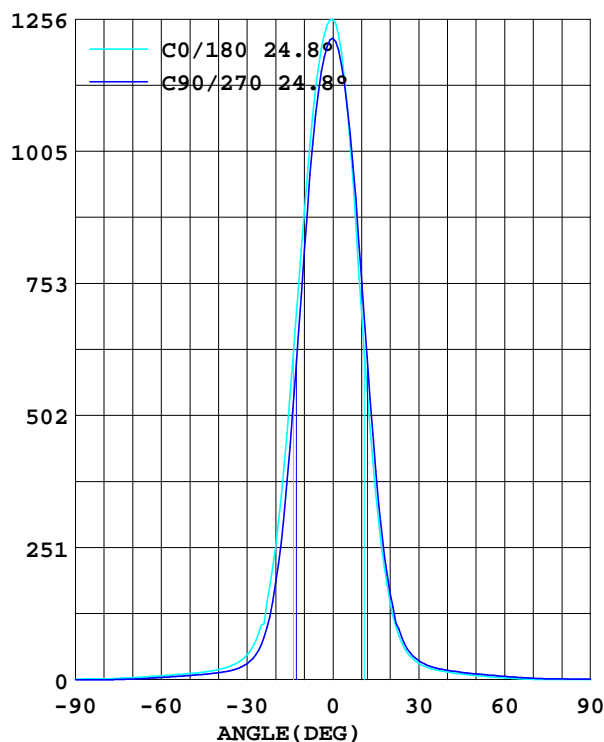
MANUFACTURER: Brilliance LED , LLC			
Address:			
NAME: Par36-4W-30°-2700K		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 2700	DIMENSION:	SERIAL No.: 1

DATA OF LAMP		Imax(cd)	1256	S/MH(C0/180)	0.45
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	0.42
NOMINAL POWER(W)	4	TOTAL FLUX(lm)	292.55	Voltage(V)	12.28
RATED VOLTAGE(V)	12	EFFICIENCY(lm/W)	73.1	Current(A)	0.328
NOMINAL FLUX(lm)	292.6	η up(%)	1.3	Power(W)	4.000
LAMPS QUANTITY	1	η down(%)	98.7	Power Factor(PF)	0.980
TEST VOLTAGE(V)	12.3	Effective Flux(lm)	227.9	EEI	0.164

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1600
Temperature:25.3DEG
Operators:
Test Date:2020年08月24日

Test Set: HIGH C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks:

Color Temperature Data List

Report number:

MANUFACTURER: Brilliance LED , LLC			
Address:			
NAME: Par36-4W-30°-2700K		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 2700	DIMENSION:	SERIAL No.: 1

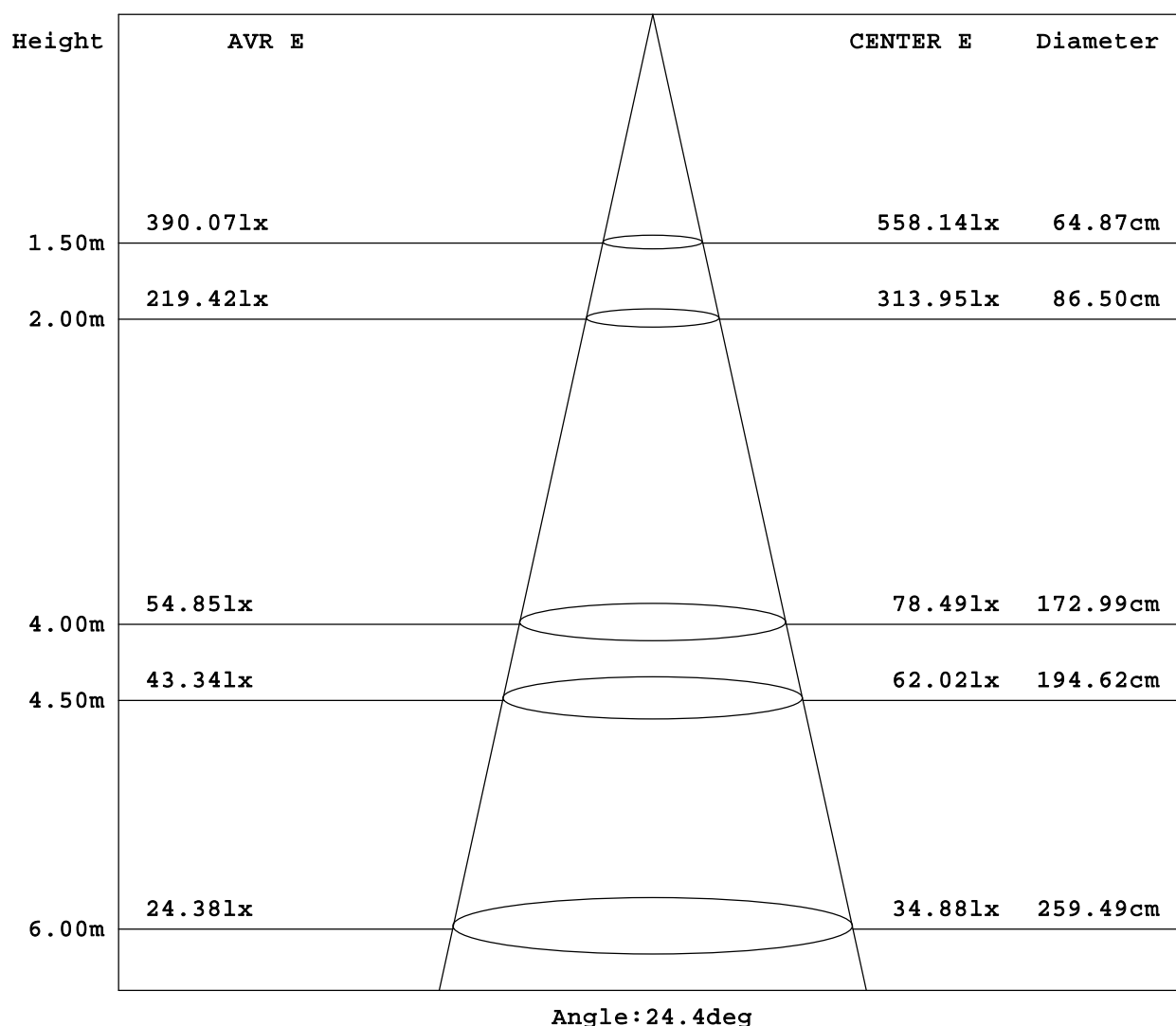
Test System:HOPOO HPG1600
Temperature:25.3DEG
Operators:
Test Date:2020年08月24日

Test Set: HIGH C-Gamma (TYPE C)
Humidity:65.0%
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AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER: Brilliance LED , LLC			
Address:			
NAME: Par36-4W-30°-2700K		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 2700	DIMENSION:	SERIAL No.: 1



Test System: HOPOO HPG1600
Temperature: 25.3DEG
Operators:
Test Date: 2020年08月24日

Test Set: HIGH C-Gamma (TYPE C)
Humidity: 65.0%
Test Distance: 8.000 m
Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER: Brilliance LED , LLC			
Address:			
NAME: Par36-4W-30°-2700K		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 2700	DIMENSION:	SERIAL No.: 1

γ	C0	C90	C180	C270					γ	Zone	total
5.0	1165	1117	1089	1087					0- 5	28.10	28.10
10.0	889.0	815.9	704.9	767.8					5- 10	67.84	95.94
15.0	539.9	441.2	352.1	396.6					10- 15	70.91	166.8
20.0	252.0	183.6	146.3	163.3					15- 20	48.04	214.9
25.0	103.6	67.19	60.35	69.05					20- 25	24.88	239.7
30.0	47.04	30.20	30.78	36.09					25- 30	13.07	252.8
35.0	27.58	18.04	19.77	23.42					30- 35	8.239	261.1
40.0	18.87	13.12	14.33	17.72					35- 40	6.259	267.3
45.0	14.52	10.17	10.68	13.95					40- 45	5.193	272.5
50.0	11.58	7.872	7.744	10.94					45- 50	4.398	276.9
55.0	9.280	5.888	5.312	8.512					50- 55	3.638	280.6
60.0	7.296	4.096	3.264	6.208					55- 60	2.865	283.4
65.0	5.440	2.304	1.664	4.032					60- 65	2.072	285.5
70.0	3.648	1.088	0.448	2.560					65- 70	1.327	286.8
75.0	2.432	0.256	0.128	1.600					70- 75	0.767	287.6
80.0	1.600	0	0.064	1.280					75- 80	0.468	288.1
85.0	1.344	0	0.064	1.152					80- 85	0.370	288.4
90.0	1.152	0	0	1.024					85- 90	0.326	288.7
95.0	1.088	0	0.064	0.896					90- 95	0.294	289.0
100.0	1.024	0	0.064	0.832					95-100	0.271	289.3
105.0	0.896	0	0.128	0.768					100-105	0.252	289.6
110.0	0.768	0	0.128	0.704					105-110	0.225	289.8
115.0	0.832	0	0.192	0.640					110-115	0.208	290.0
120.0	0.704	0	0.192	0.576					115-120	0.189	290.2
125.0	0.704	0	0.256	0.576					120-125	0.175	290.4
130.0	0.640	0	0.320	0.576					125-130	0.163	290.5
135.0	0.640	0	0.384	0.640					130-135	0.164	290.7
140.0	0.768	0.128	0.576	0.704					135-140	0.177	290.9
145.0	0.896	0.384	0.832	0.896					140-145	0.210	291.1
150.0	1.088	0.576	1.088	1.152					145-150	0.252	291.3
155.0	1.344	0.896	1.408	1.344					150-155	0.285	291.6
160.0	1.600	1.152	1.664	1.600					155-160	0.288	291.9
165.0	1.664	1.280	1.728	1.728					160-165	0.257	292.2
170.0	1.728	1.280	1.792	1.664					165-170	0.194	292.4
175.0	1.728	1.280	1.792	1.664					170-175	0.115	292.5
180.0	1.664	1.344	1.856	1.600					175-180	0.038	292.5
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1600
Temperature:25.3DEG
Operators:
Test Date:2020年08月24日

Test Set: HIGH C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

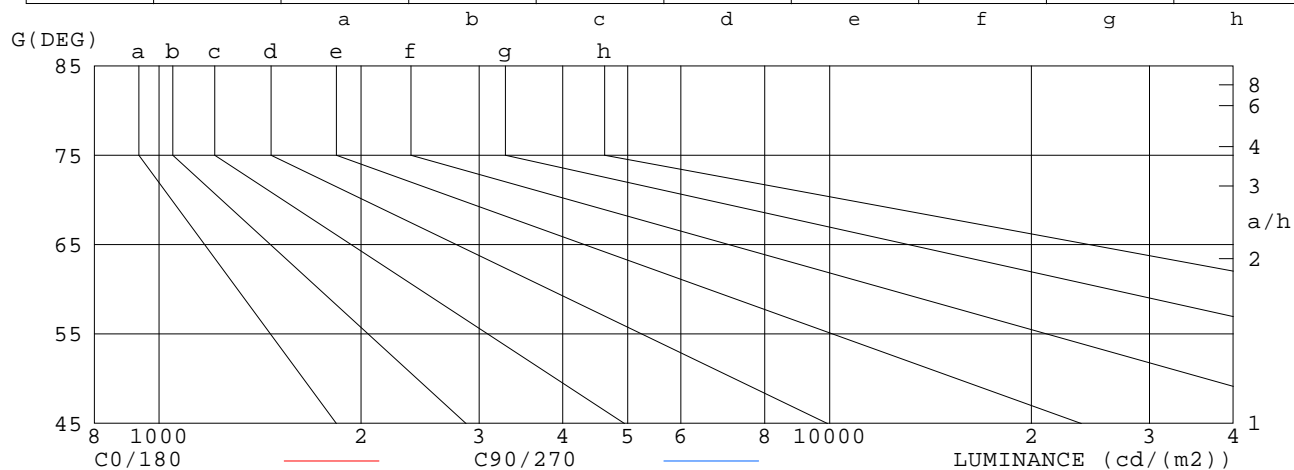
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER: Brilliance LED , LLC			
Address:			
NAME: Par36-4W-30°-2700K		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 2700	DIMENSION:	SERIAL No.: 1

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/m^2		
G (DEG)	C0/180	C90/270
85	154	0
80	92	0
75	94	10
70	107	32
65	129	55
60	146	82
55	162	103
50	180	122
45	205	144

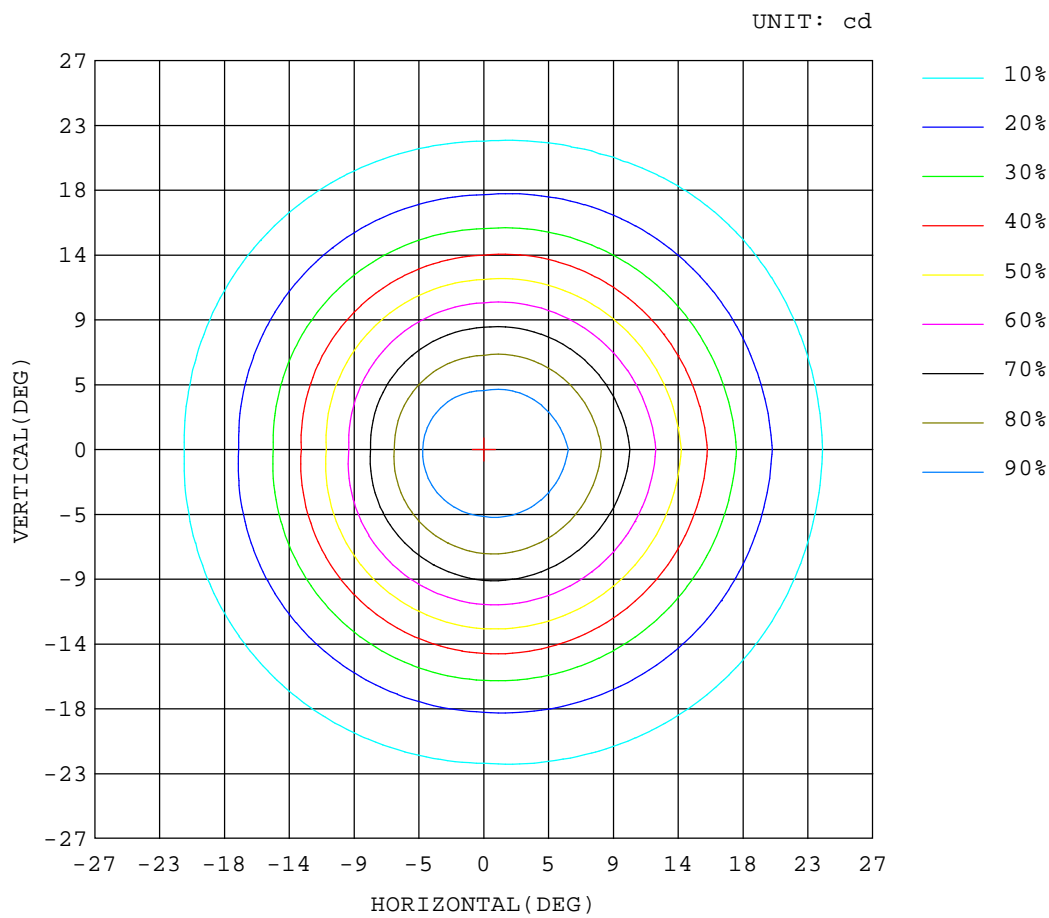
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Report number:

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SPECIFICATION:	CCT(K): 2700	DIMENSION:	SERIAL No.: 1



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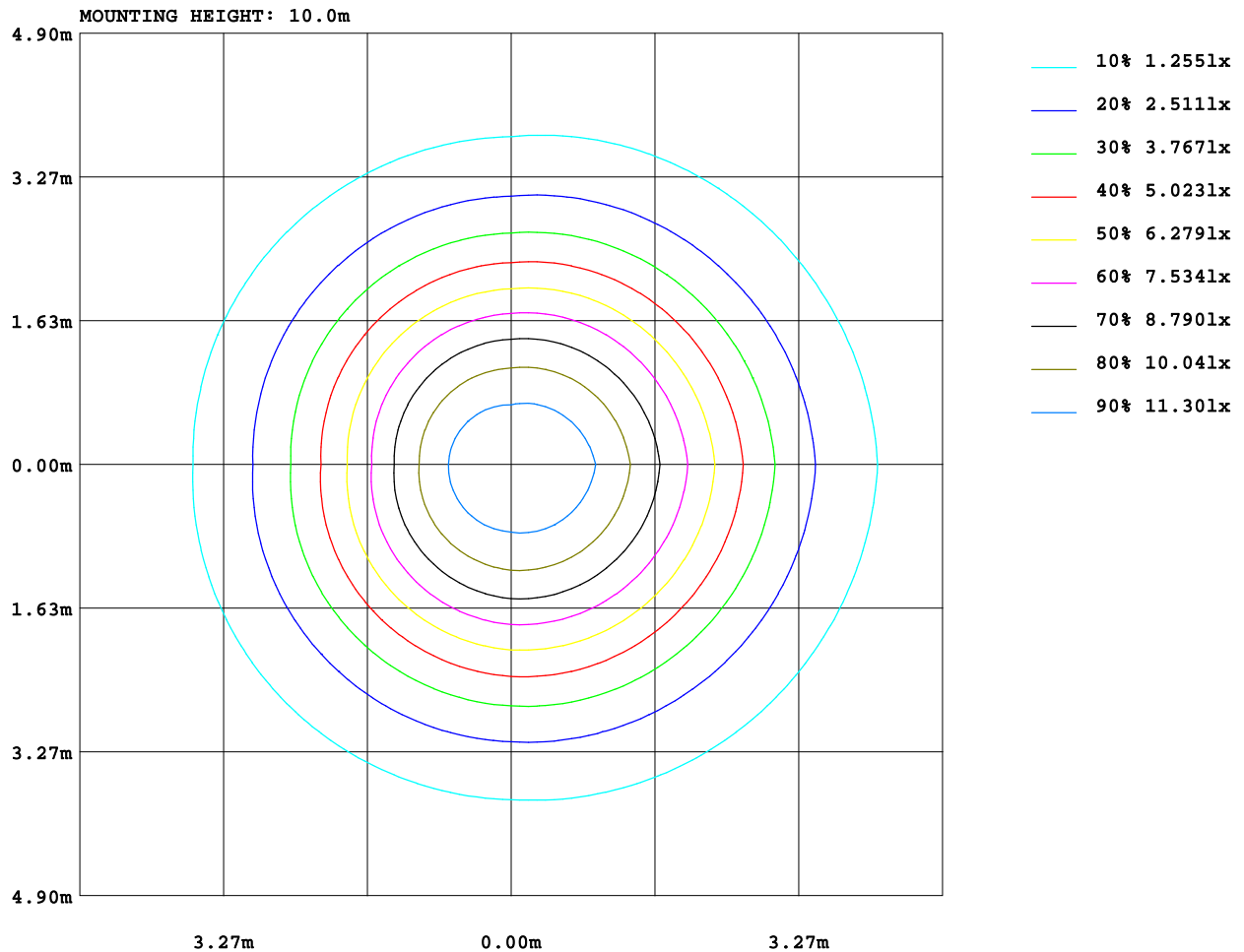
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HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER: Brilliance LED , LLC			
Address:			
NAME: Par36-4W-30°-2700K		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 2700	DIMENSION:	SERIAL No.: 1



Test System:HOPOO HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:2020年08月24日

Test Set: HIGH C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.000 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

AREA LUMINOUS FLUX

Report number:

MANUFACTURER: Brilliance LED , LLC			
Address:			
NAME: Par36-4W-30°-2700K		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 2700	DIMENSION:	SERIAL No.: 1

27	AREA FLUX DIAGRAM																	UNIT:1m		Φ t	Φ a
	0.05	0.06	0.07	0.09	0.11	0.13	0.15	0.16	0.17	0.18	0.18	0.16	0.15	0.13	0.11	0.09	0.07	0.06	2.11	0.00	
24	0.06	0.07	0.09	0.12	0.15	0.19	0.23	0.26	0.28	0.29	0.28	0.26	0.22	0.18	0.15	0.12	0.09	0.07	3.11	0.00	
21	0.07	0.09	0.12	0.16	0.22	0.29	0.37	0.45	0.49	0.51	0.49	0.43	0.36	0.28	0.21	0.16	0.12	0.09	4.90	2.94	
18	0.08	0.11	0.16	0.23	0.33	0.47	0.62	0.75	0.83	0.86	0.82	0.72	0.59	0.44	0.31	0.21	0.15	0.11	7.80	6.40	
15	0.09	0.14	0.21	0.32	0.50	0.73	0.98	1.20	1.34	1.38	1.31	1.13	0.90	0.67	0.46	0.29	0.20	0.13	12.0	10.8	
12	0.11	0.17	0.27	0.45	0.71	1.04	1.41	1.74	1.94	1.99	1.88	1.63	1.29	0.95	0.64	0.41	0.24	0.16	17.0	16.1	
9	0.12	0.20	0.33	0.57	0.92	1.37	1.86	2.28	2.53	2.58	2.44	2.12	1.70	1.24	0.84	0.52	0.30	0.19	22.1	21.3	
VERTICAL(DEG)	0.13	0.22	0.39	0.67	1.09	1.64	2.22	2.73	2.99	3.04	2.88	2.52	2.03	1.50	1.00	0.63	0.36	0.21	26.3	25.5	
	0.14	0.23	0.42	0.73	1.18	1.77	2.43	2.99	3.28	3.31	3.15	2.77	2.25	1.67	1.12	0.70	0.40	0.23	28.8	28.1	
	0.14	0.24	0.42	0.73	1.19	1.79	2.44	3.00	3.29	3.33	3.16	2.78	2.26	1.68	1.13	0.70	0.40	0.23	28.9	28.2	
	0.13	0.22	0.40	0.69	1.12	1.67	2.27	2.78	3.06	3.10	2.93	2.56	2.07	1.52	1.02	0.63	0.36	0.21	26.7	26.0	
	0.12	0.20	0.34	0.59	0.96	1.42	1.93	2.37	2.64	2.68	2.52	2.19	1.75	1.28	0.85	0.53	0.30	0.19	22.9	22.0	
	0.11	0.17	0.28	0.47	0.74	1.10	1.49	1.84	2.06	2.11	1.98	1.71	1.35	0.98	0.66	0.41	0.24	0.16	17.9	16.9	
	0.09	0.13	0.21	0.34	0.53	0.78	1.05	1.30	1.46	1.50	1.41	1.21	0.96	0.70	0.47	0.29	0.20	0.13	12.7	11.7	
	0.08	0.11	0.16	0.23	0.35	0.51	0.67	0.83	0.93	0.96	0.90	0.78	0.62	0.46	0.31	0.21	0.15	0.10	8.34	7.03	
	0.06	0.08	0.11	0.16	0.23	0.31	0.40	0.49	0.54	0.56	0.53	0.46	0.38	0.28	0.21	0.15	0.11	0.08	5.14	3.31	
	0.05	0.07	0.09	0.11	0.15	0.19	0.23	0.27	0.30	0.31	0.29	0.26	0.22	0.18	0.14	0.11	0.08	0.07	3.10	0.36	
-27	0.05	0.05	0.07	0.08	0.10	0.12	0.14	0.16	0.17	0.17	0.17	0.16	0.14	0.12	0.10	0.08	0.07	0.06	1.97	0.00	
-27	-24	-21	-18	-15	-12	-9	-6	HORIZONTAL(DEG)				6	9	12	15	18	21	24	27		
Φ t	1.68	2.56	4.14	6.74	10.5	15.5	20.9	25.6	28.3	28.8	27.3	23.9	19.2	14.2	9.74	6.25	3.83	2.47	293		
Φ a	0.00	0.00	1.99	5.23	9.38	14.4	20.0	24.7	27.5	28.0	26.5	23.0	18.2	13.1	8.46	4.71	1.43	0.00		228	

Test System:HOPOO HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:2020年08月24日

Test Set: HIGH C-Gamma (TYPE C)
 Humidity:65.0%
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 Remarks:

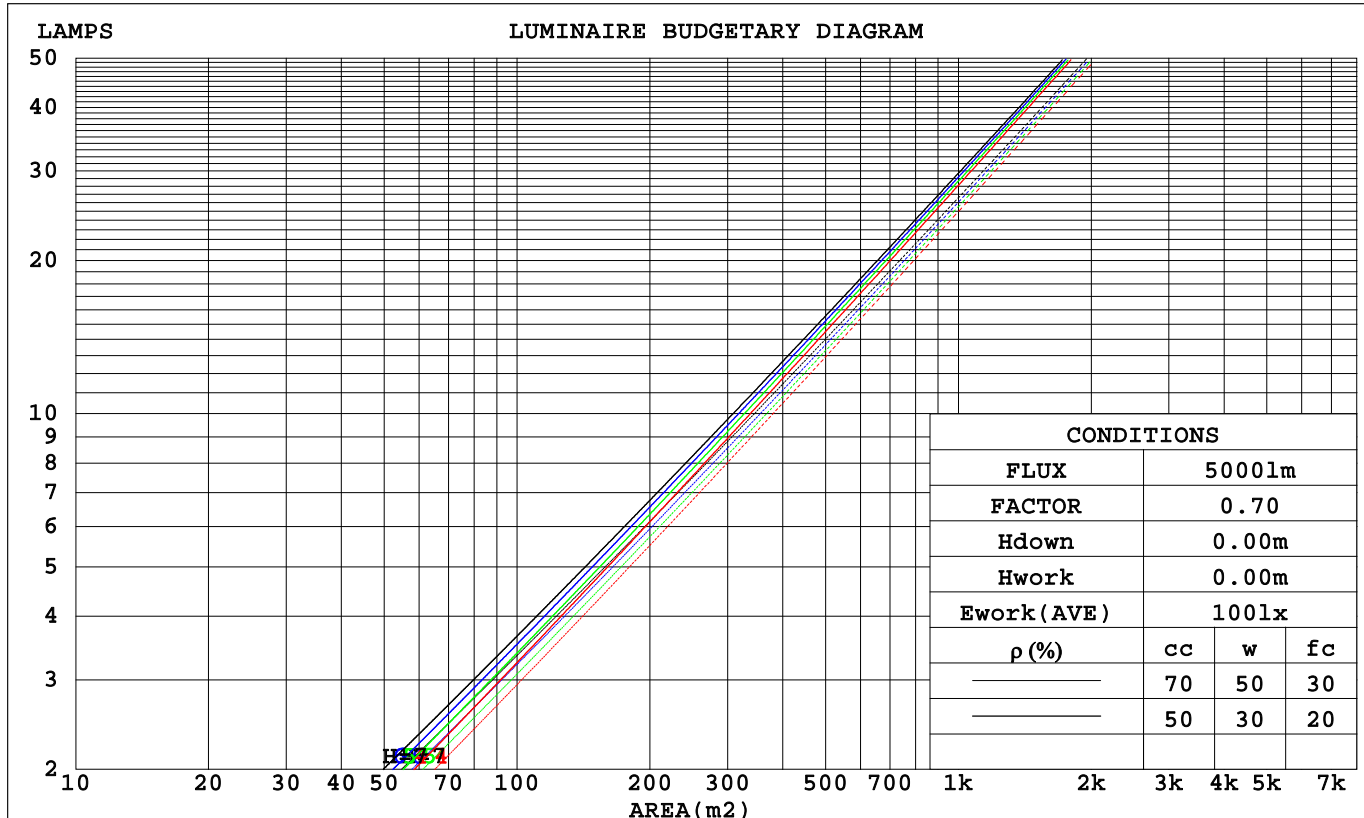
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER: Brilliance LED , LLC															
Address:															
NAME: Par36-4W-30°-2700K								TYPE:				WEIGHT:			
SPECIFICATION:				CCT(K): 2700				DIMENSION:				SERIAL No.: 1			

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															



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HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Report number:

MANUFACTURER: Brilliance LED , LLC											
Address:											
NAME: Par36-4W-30°-2700K						TYPE:			WEIGHT:		
SPECIFICATION:				CCT(K): 2700			DIMENSION:			SERIAL No.: 1	

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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.154	.087	.028	.147	.084	.027	.134	.077	.024	.121	.070	.022	.110	.064	.021	
2.0	.143	.078	.024	.137	.076	.023	.126	.070	.022	.116	.065	.020	.107	.060	.019	
3.0	.133	.071	.021	.128	.069	.021	.119	.064	.020	.110	.060	.019	.102	.057	.018	
4.0	.125	.065	.019	.120	.063	.019	.112	.060	.018	.105	.056	.017	.098	.053	.016	
5.0	.117	.060	.017	.113	.058	.017	.107	.055	.016	.100	.053	.016	.094	.050	.015	
6.0	.110	.055	.016	.107	.054	.016	.101	.052	.015	.096	.050	.015	.090	.048	.014	
7.0	.104	.052	.015	.102	.051	.014	.096	.049	.014	.091	.047	.014	.087	.045	.013	
8.0	.099	.048	.014	.097	.048	.013	.092	.046	.013	.088	.044	.013	.083	.043	.012	
9.0	.094	.046	.013	.092	.045	.013	.088	.043	.012	.084	.042	.012	.080	.041	.012	
10.0	.090	.043	.012	.088	.043	.012	.084	.041	.012	.081	.040	.011	.077	.039	.011	

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.200	.200	.200	.171	.171	.171	.117	.117	.117	.067	.067	.067	.021	.021	.021	
1.0	.179	.167	.157	.153	.144	.135	.105	.099	.093	.060	.057	.054	.019	.018	.018	
2.0	.162	.143	.126	.139	.123	.109	.095	.085	.076	.055	.049	.045	.018	.016	.015	
3.0	.148	.123	.104	.127	.106	.090	.087	.074	.063	.050	.043	.037	.016	.014	.012	
4.0	.136	.108	.087	.117	.094	.075	.080	.065	.053	.046	.038	.031	.015	.012	.010	
5.0	.126	.096	.074	.108	.083	.064	.075	.058	.046	.043	.034	.027	.014	.011	.009	
6.0	.117	.086	.064	.101	.075	.056	.070	.052	.040	.040	.031	.023	.013	.010	.008	
7.0	.110	.078	.056	.095	.068	.049	.065	.048	.035	.038	.028	.021	.012	.009	.007	
8.0	.103	.072	.050	.089	.062	.044	.062	.044	.031	.036	.026	.018	.012	.008	.006	
9.0	.098	.066	.045	.084	.057	.039	.058	.040	.028	.034	.024	.017	.011	.008	.005	
10.0	.093	.061	.041	.080	.053	.035	.055	.038	.025	.032	.022	.015	.010	.007	.005	

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Test Set: HIGH C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.000 m
 Remarks:

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UGR Table

Report number:

MANUFACTURER: Brilliance LED , LLC										
Address:										
NAME: Par36-4W-30°-2700K						TYPE:		WEIGHT:		
SPECIFICATION:			CCT(K): 2700			DIMENSION:		SERIAL No.: 1		
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				
x = 2H y = 2H						Viewed endwise				
3H						-1.3	-0.6	-1.1	-0.4	-0.2
4H						-1.0	-0.4	-0.8	-0.1	0.1
6H						-1.1	-0.4	-0.8	-0.2	0.0
8H						-1.1	-0.5	-0.8	-0.3	-0.0
12H						-1.2	-0.6	-0.9	-0.3	-0.1
2H						-1.2	-0.7	-0.9	-0.4	-0.1
4H						-0.8	-0.2	-0.5	0.0	0.3
3H						-0.5	0.1	-0.1	0.4	0.7
4H						-0.5	0.0	-0.1	0.4	0.7
6H						-0.5	-0.1	-0.2	0.3	0.6
8H						-0.6	-0.2	-0.2	0.2	0.6
12H						-0.6	-0.3	-0.2	0.1	0.6
8H						-0.4	0.0	0.0	0.4	0.8
6H						-0.4	-0.1	0.0	0.3	0.8
8H						-0.4	-0.1	0.0	0.3	0.8
12H						-0.5	-0.2	0.0	0.3	0.8
12H						-0.4	-0.0	0.0	0.4	0.8
6H						-0.4	-0.1	0.1	0.4	0.8
8H						-0.4	-0.1	0.1	0.4	0.9
Variations with the observer position at spacings:										
S = 1.0H		+ 0.4 / - 0.5				+ 0.7 / - 1.0				
1.5H		+ 0.6 / - 0.5				+ 0.4 / - 0.7				
2.0H		+ 0.7 / - 0.8				+ 0.9 / - 1.6				

CIE Pub.117 Corrected 292.5 lm Total Lamp Luminous Flux.(8log(F/F0) = -4.3)

Test System:HOPOO HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:2020年08月24日

Test Set: HIGH C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.000 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER: Brilliance LED , LLC			
Address:			
NAME: Par36-4W-30°-2700K		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 2700	DIMENSION:	SERIAL No.: 1

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	79	76	85	79	76	72
0.80	94	88	84	93	87	84	92	87	83	79
1.00	98	92	89	97	92	88	95	92	88	83
1.25	102	97	93	101	96	93	99	95	92	87
1.50	105	100	96	104	99	96	101	98	95	90
2.00	108	103	100	106	102	99	103	100	98	92
2.50	109	105	102	108	104	101	104	102	99	93
3.00	111	107	105	109	106	103	106	103	101	94
4.00	113	110	108	111	109	106	107	105	104	96
5.00	114	112	110	112	110	108	108	107	105	97
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended				SHRNOM = 1.25		

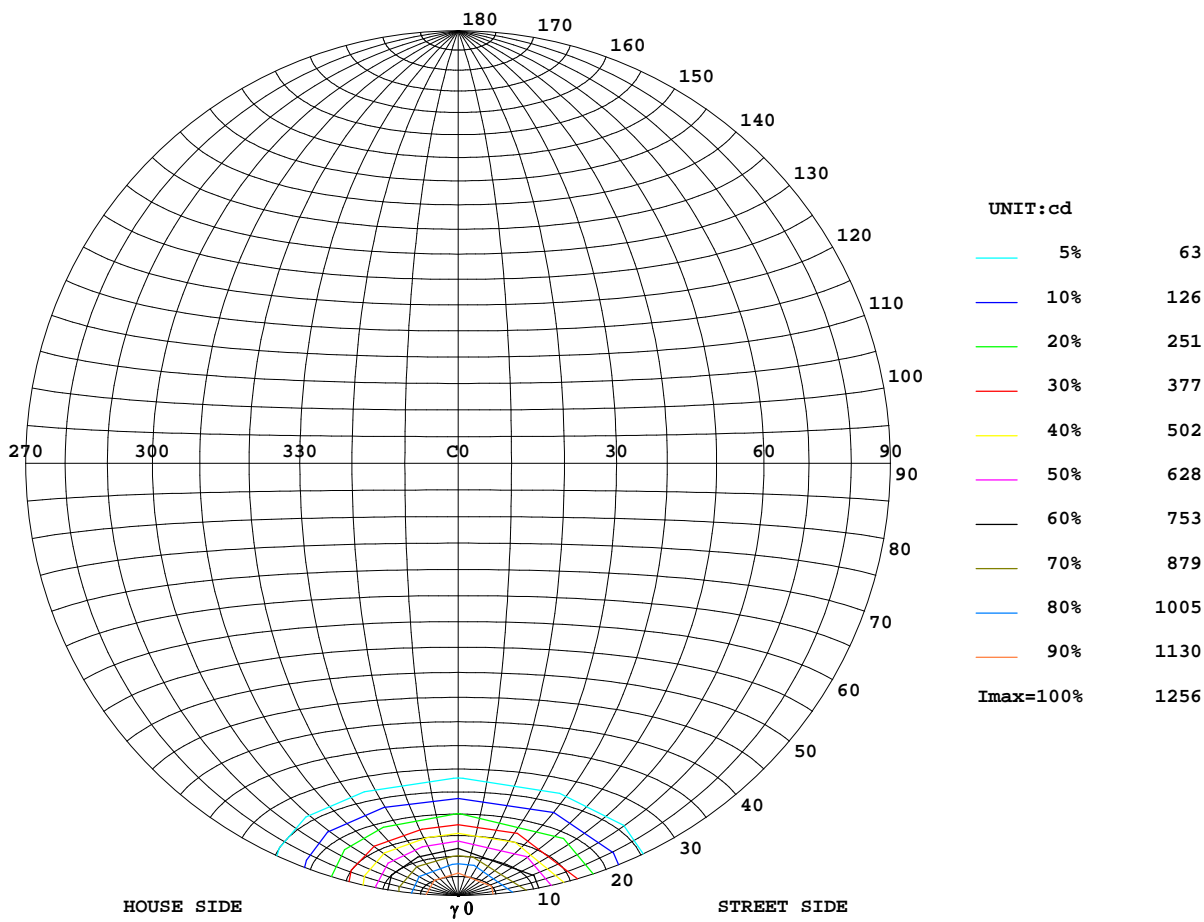
Test System:HOPOO HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:2020年08月24日

Test Set: HIGH C-Gamma (TYPE C)
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ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: Brilliance LED , LLC			
Address:			
NAME: Par36-4W-30°-2700K		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 2700	DIMENSION:	SERIAL No.: 1



Test System:HOPOO HPG1600
Temperature:25.3DEG
Operators:
Test Date:2020年08月24日

Test Set: HIGH C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks:

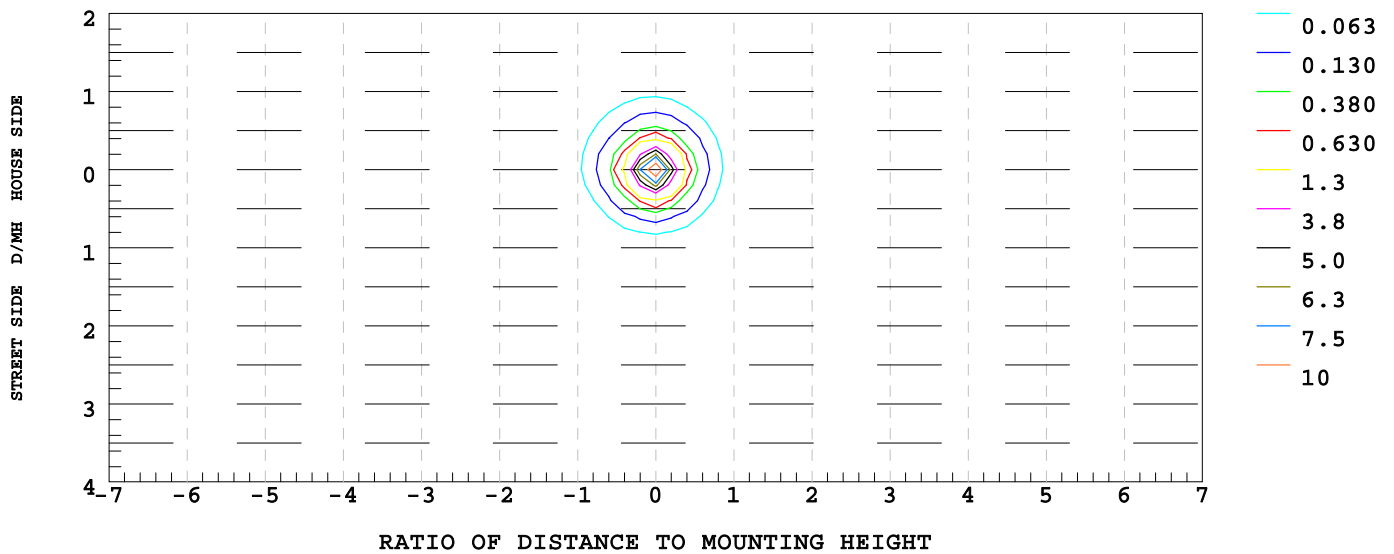
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER: Brilliance LED , LLC			
Address:			
NAME: Par36-4W-30°-2700K		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 2700	DIMENSION:	SERIAL No.: 1

ILLUMINANCE AT MH=10 m,Enadir = 12.56 lx



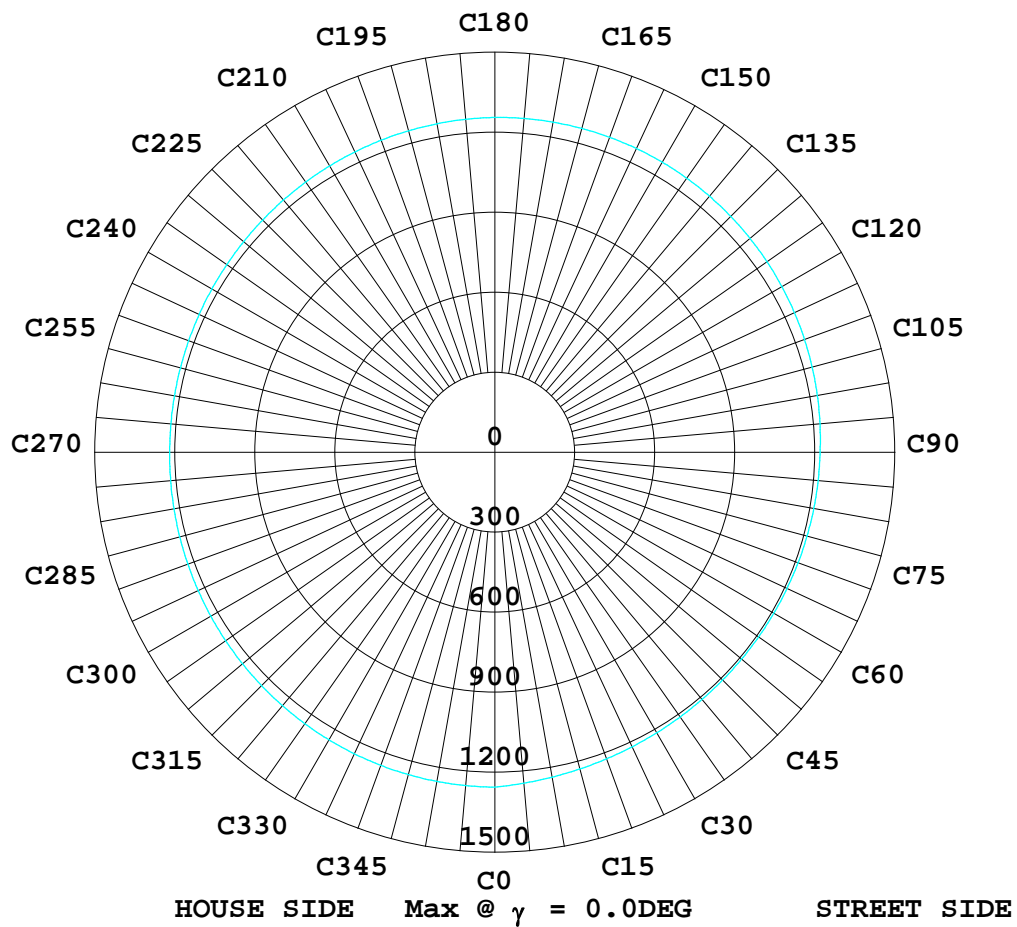
Test System:HOPOO HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:2020年08月24日

Test Set: HIGH C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.000 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: Brilliance LED , LLC			
Address:			
NAME: Par36-4W-30°-2700K		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 2700	DIMENSION:	SERIAL No.: 1



Test System:HOPOO HPG1600
Temperature:25.3DEG
Operators:
Test Date:2020年08月24日

Test Set: HIGH C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: Brilliance LED , LLC			
Address:			
NAME: Par36-4W-30°-2700K		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 2700	DIMENSION:	SERIAL No.: 1

UNIT: cd

C(DEG) γ (DEG)	0	90	180	270
0.0	1256	1220	1256	1220
5.0	1165	1117	1089	1087
10.0	889	816	705	768
15.0	540	441	352	397
20.0	252	184	146	163
25.0	104	67.1	60.3	69.0
30.0	47.0	30.2	30.7	36.0
35.0	27.5	18.0	19.7	23.4
40.0	18.8	13.1	14.3	17.7
45.0	14.5	10.1	10.6	13.9
50.0	11.5	7.87	7.74	10.9
55.0	9.28	5.88	5.31	8.51
60.0	7.29	4.09	3.26	6.20
65.0	5.44	2.30	1.66	4.03
70.0	3.64	1.08	0.45	2.56
75.0	2.43	0.26	0.13	1.60
80.0	1.60	0.00	0.06	1.28
85.0	1.34	0.00	0.06	1.15
90.0	1.15	0.00	0.00	1.02
95.0	1.08	0.00	0.06	0.90
100.0	1.02	0.00	0.06	0.83
105.0	0.90	0.00	0.13	0.77
110.0	0.77	0.00	0.13	0.70
115.0	0.83	0.00	0.19	0.64
120.0	0.70	0.00	0.19	0.58
125.0	0.70	0.00	0.26	0.58
130.0	0.64	0.00	0.32	0.58
135.0	0.64	0.00	0.38	0.64
140.0	0.77	0.13	0.58	0.70
145.0	0.90	0.38	0.83	0.90
150.0	1.08	0.58	1.08	1.15
155.0	1.34	0.90	1.40	1.34
160.0	1.60	1.15	1.66	1.60
165.0	1.66	1.28	1.72	1.72
170.0	1.72	1.28	1.79	1.66
175.0	1.72	1.28	1.79	1.66
180.0	1.66	1.34	1.85	1.60

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