

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

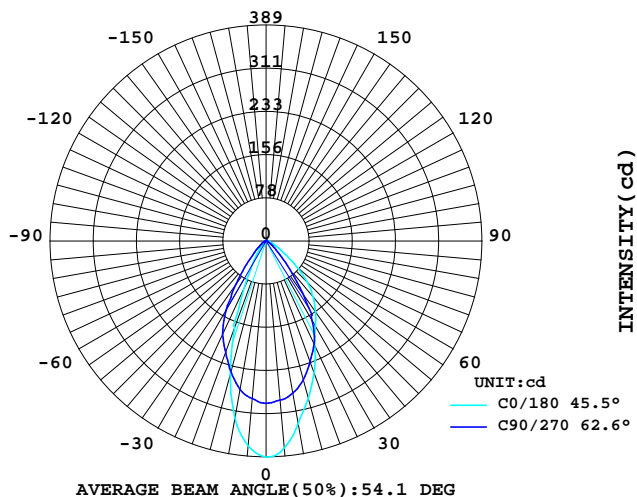
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

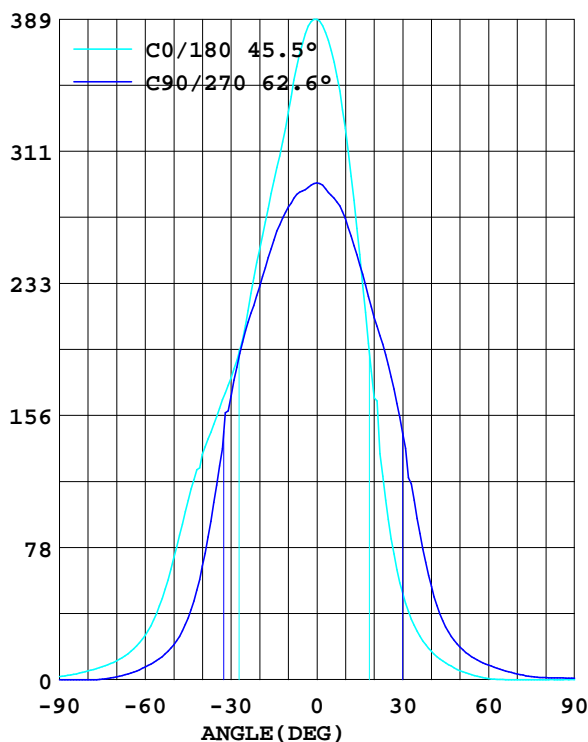
MANUFACTURER: Brilliance LED , LLC			
Address:			
NAME: Par36-4W-60°-3000K		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 3000	DIMENSION:	SERIAL No.: 1

DATA OF LAMP		Imax(cd)	388.9	S/MH(C0/180)	0.79
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	0.95
NOMINAL POWER(W)	4	TOTAL FLUX(lm)	310.26	Voltage(V)	12.28
RATED VOLTAGE(V)	12	EFFICIENCY(lm/W)	77.6	Current(A)	0.323
NOMINAL FLUX(lm)	310.3	η up(%)	1.1	Power(W)	4.000
LAMPS QUANTITY	1	η down(%)	98.9	Power Factor(PF)	0.980
TEST VOLTAGE(V)	12.3	Effective Flux(lm)	274.4	EEI	0.143

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



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

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks:

Color Temperature Data List

Report number:

MANUFACTURER: Brilliance LED , LLC			
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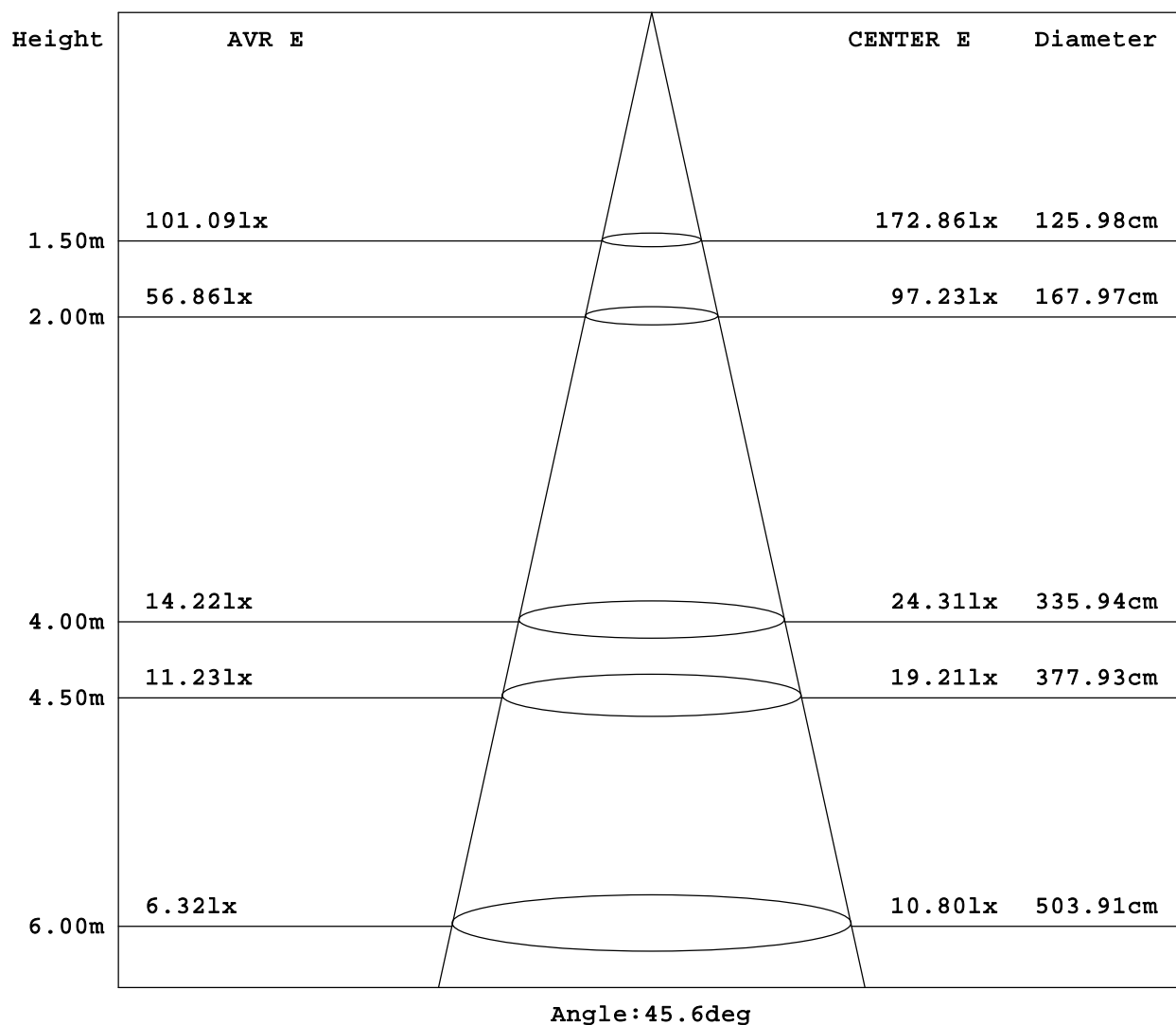
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AVERAGE AND CENTER E Figure

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SPECIFICATION:	CCT(K): 3000	DIMENSION:	SERIAL No.: 1



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

Test Set: 5.0deg/s 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-60°-3000K		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 3000	DIMENSION:	SERIAL No.: 1

γ	C0	C90	C180	C270					γ	zone	total
5.0	374.4	287.8	370.3	285.1					0- 5	8.005	8.005
10.0	334.3	278.2	324.4	271.5					5- 10	22.59	30.60
15.0	293.8	259.0	250.1	244.2					10- 15	33.34	63.94
20.0	253.0	231.1	166.0	213.1					15- 20	39.19	103.1
25.0	208.5	205.3	94.33	185.4					20- 25	40.74	143.8
30.0	177.7	166.9	51.00	145.0					25- 30	38.82	182.7
35.0	154.9	114.5	28.48	94.97					30- 35	34.33	217.0
40.0	132.6	66.75	16.63	55.04					35- 40	27.32	244.3
45.0	105.4	36.35	9.920	31.10					40- 45	20.71	265.0
50.0	71.74	20.48	5.248	19.07					45- 50	14.90	279.9
55.0	43.45	12.35	2.432	12.48					50- 55	9.950	289.9
60.0	26.11	7.424	0.576	8.576					55- 60	6.385	296.3
65.0	16.70	3.904	0.064	5.568					60- 65	4.099	300.4
70.0	11.07	1.600	0	3.392					65- 70	2.612	303.0
75.0	7.552	0.256	0	1.728					70- 75	1.637	304.6
80.0	5.120	0	0	1.152					75- 80	1.029	305.7
85.0	3.136	0	0	0.960					80- 85	0.692	306.4
90.0	1.792	0	0	0.832					85- 90	0.451	306.8
95.0	1.152	0	0.064	0.704					90- 95	0.311	307.1
100.0	1.024	0	0.064	0.704					95-100	0.254	307.4
105.0	0.896	0	0.128	0.576					100-105	0.225	307.6
110.0	0.768	0	0.192	0.576					105-110	0.212	307.8
115.0	0.768	0	0.256	0.512					110-115	0.196	308.0
120.0	0.640	0	0.320	0.512					115-120	0.183	308.2
125.0	0.640	0	0.448	0.576					120-125	0.178	308.4
130.0	0.576	0.064	0.512	0.576					125-130	0.183	308.5
135.0	0.640	0.128	0.640	0.704					130-135	0.190	308.7
140.0	0.704	0.192	0.704	0.704					135-140	0.204	308.9
145.0	0.768	0.320	0.832	0.768					140-145	0.212	309.2
150.0	0.832	0.512	1.024	0.832					145-150	0.219	309.4
155.0	0.960	0.576	1.152	0.960					150-155	0.215	309.6
160.0	1.024	0.640	1.280	1.024					155-160	0.201	309.8
165.0	1.088	0.768	1.472	1.088					160-165	0.173	310.0
170.0	1.216	0.832	1.472	1.152					165-170	0.135	310.1
175.0	1.152	0.960	1.472	1.152					170-175	0.085	310.2
180.0	1.280	0.960	1.472	1.216					175-180	0.029	310.2
DEG	LUMINOUS INTENSITY:cd								UNIT:lm		

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

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks:

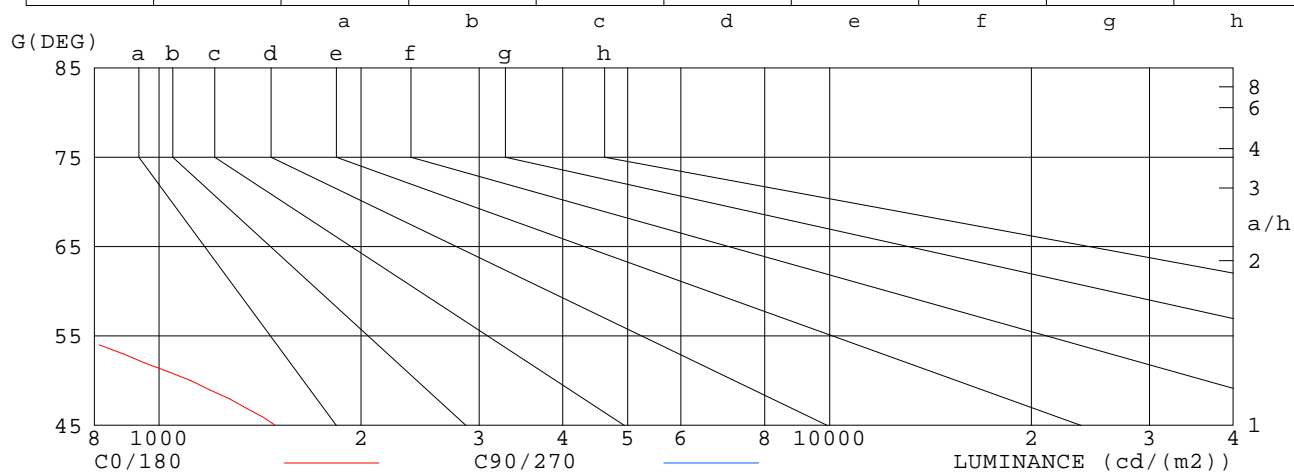
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER: Brilliance LED , LLC			
Address:			
NAME: Par36-4W-60°-3000K		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 3000	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/m2

G (DEG)	C0/180	C90/270
85	360	0
80	295	0
75	292	10
70	324	47
65	395	92
60	522	148
55	758	215
50	1116	319
45	1492	514

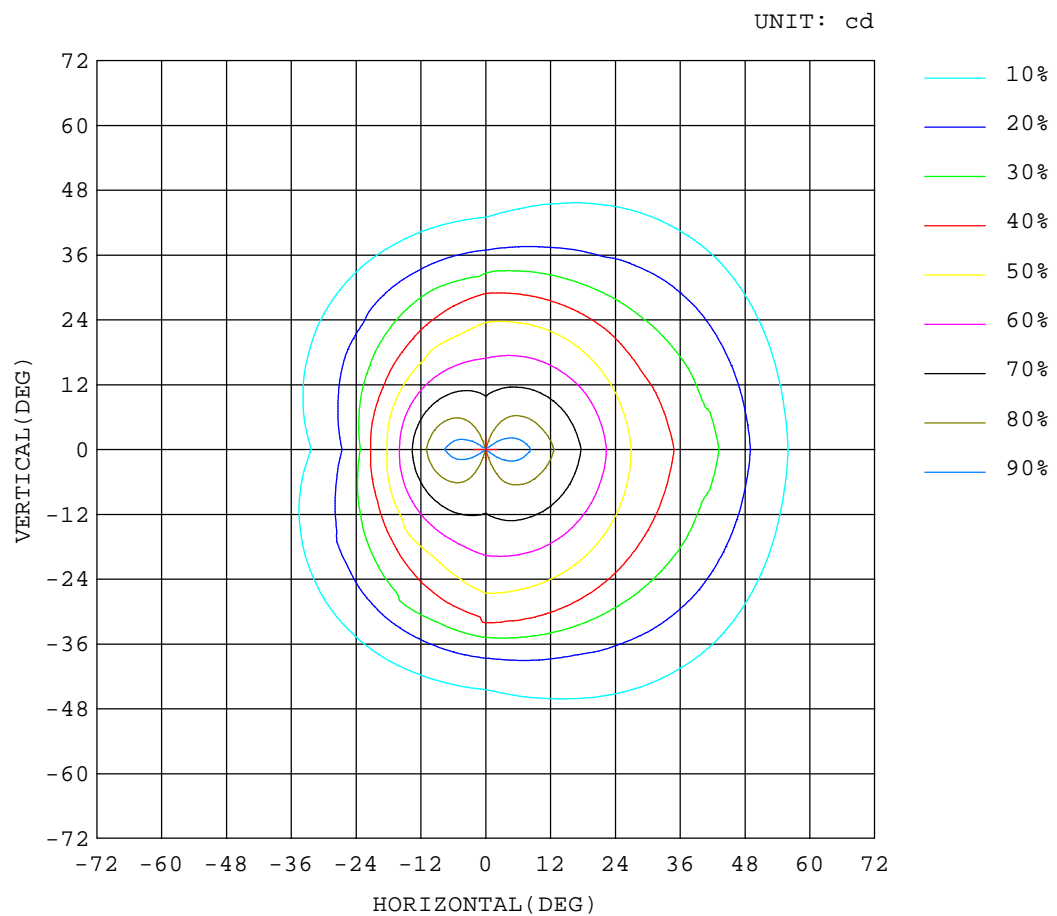
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SPECIFICATION:	CCT(K): 3000	DIMENSION:	SERIAL No.: 1



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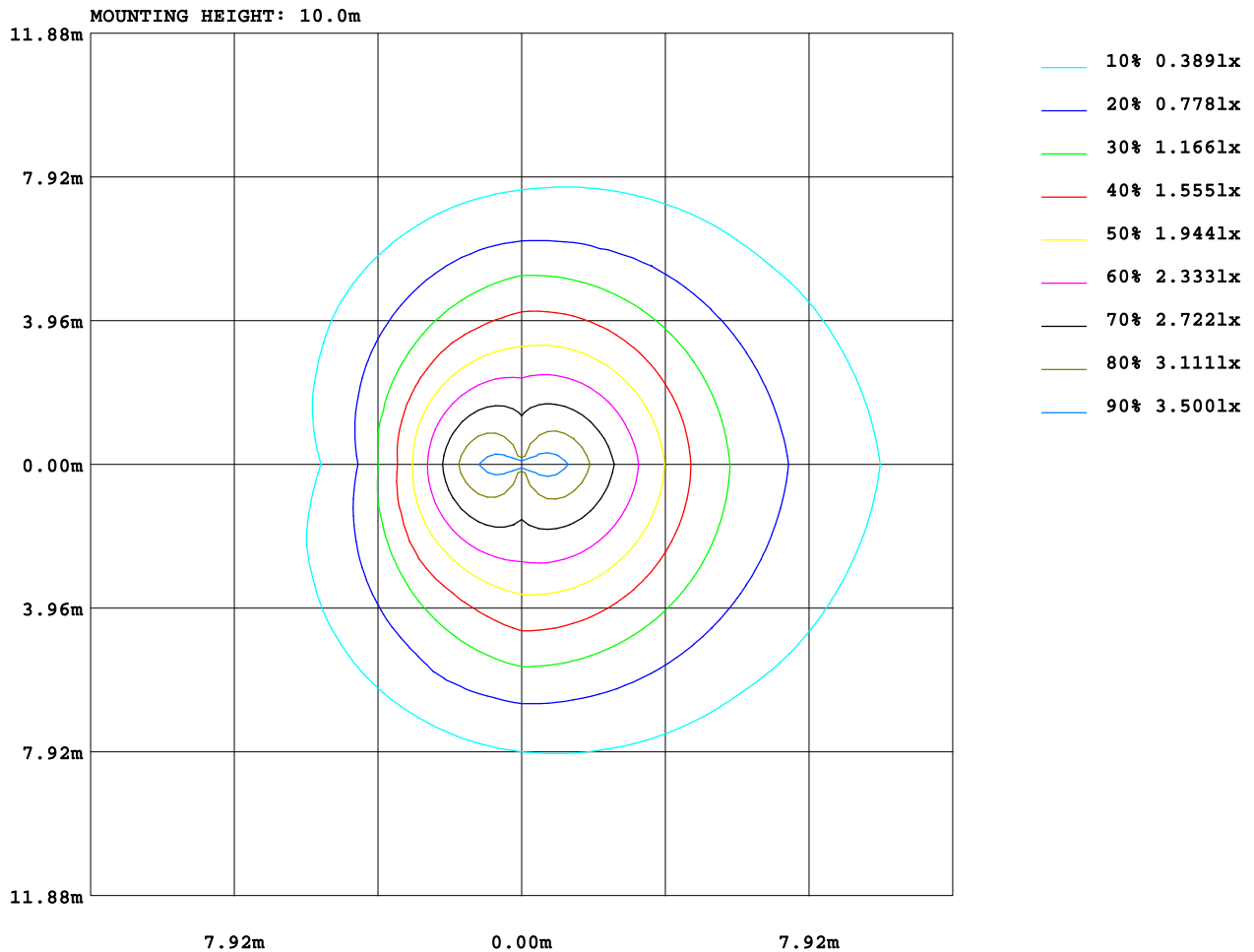
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HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER: Brilliance LED , LLC			
Address:			
NAME: Par36-4W-60°-3000K		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 3000	DIMENSION:	SERIAL No.: 1



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

Test Set: 5.0deg/s 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-60°-3000K										TYPE:					WEIGHT:				
SPECIFICATION:					CCT(K): 3000					DIMENSION:					SERIAL No.: 1				

72	AREA FLUX DIAGRAM																		UNIT:lm		Φ t	Φ a
	0.00	0.00	0.01	0.01	0.02	0.04	0.05	0.07	0.08	0.09	0.10	0.10	0.10	0.09	0.07	0.06	0.04	0.03	0.95	0.00		
64	0.00	0.00	0.01	0.03	0.04	0.07	0.10	0.13	0.16	0.18	0.20	0.20	0.18	0.15	0.12	0.08	0.06	0.03	1.77	0.00		
56	0.00	0.01	0.02	0.04	0.08	0.13	0.19	0.25	0.30	0.36	0.41	0.40	0.35	0.27	0.19	0.12	0.07	0.04	3.22	0.00		
48	0.00	0.01	0.03	0.06	0.12	0.22	0.36	0.52	0.66	0.78	0.85	0.81	0.67	0.48	0.30	0.18	0.10	0.05	6.21	2.47		
40	0.00	0.01	0.03	0.09	0.20	0.40	0.73	1.17	1.56	1.74	1.67	1.46	1.18	0.84	0.49	0.26	0.13	0.06	12.0	10.1		
32	0.00	0.01	0.04	0.13	0.31	0.69	1.37	2.20	2.89	3.12	2.85	2.34	1.78	1.27	0.76	0.36	0.16	0.07	20.4	19.0		
24	0.00	0.01	0.05	0.16	0.42	1.02	2.05	3.20	3.97	4.19	3.91	3.21	2.40	1.70	1.04	0.49	0.20	0.08	28.1	27.0		
VERTICAL(DEG)	0.00	0.01	0.06	0.18	0.49	1.24	2.64	4.25	5.07	5.19	4.85	3.93	2.89	2.05	1.30	0.61	0.23	0.09	35.1	34.1		
	0.00	0.01	0.05	0.17	0.47	1.25	3.05	5.27	6.24	6.29	5.71	4.47	3.18	2.29	1.49	0.70	0.26	0.10	41.0	40.0		
	0.00	0.01	0.06	0.18	0.48	1.28	3.09	5.32	6.27	6.32	5.75	4.51	3.22	2.31	1.49	0.70	0.26	0.10	41.3	40.4		
	0.00	0.01	0.06	0.19	0.53	1.34	2.76	4.40	5.25	5.36	5.00	4.04	2.99	2.09	1.31	0.61	0.23	0.09	36.3	35.3		
	0.00	0.01	0.05	0.17	0.47	1.16	2.24	3.43	4.27	4.49	4.14	3.40	2.54	1.75	1.06	0.49	0.20	0.08	30.0	28.9		
	0.00	0.01	0.04	0.13	0.34	0.80	1.60	2.53	3.30	3.52	3.18	2.57	1.89	1.31	0.76	0.36	0.16	0.07	22.6	21.3		
	0.00	0.01	0.03	0.09	0.21	0.46	0.86	1.39	1.88	2.06	1.90	1.59	1.23	0.85	0.49	0.26	0.13	0.06	13.5	11.8		
	0.00	0.01	0.02	0.06	0.13	0.24	0.40	0.60	0.77	0.90	0.93	0.85	0.69	0.48	0.30	0.17	0.09	0.05	6.68	3.24		
	0.00	0.00	0.01	0.03	0.07	0.12	0.19	0.26	0.32	0.38	0.42	0.40	0.34	0.26	0.18	0.12	0.07	0.04	3.19	0.00		
	0.00	0.00	0.00	0.01	0.03	0.05	0.08	0.11	0.14	0.16	0.18	0.18	0.17	0.14	0.10	0.08	0.05	0.03	1.53	0.00		
0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.08	0.07	0.06	0.05	0.04	0.02	0.66	0.00			
-72	-72	-64	-56	-48	-40	-32	-24	-16	HORIZONTAL(DEG)					16	24	32	40	48	56	64	72	
Φ t	0.03	0.14	0.59	1.72	4.42	10.5	21.8	35.2	43.2	45.2	42.1	34.5	25.9	18.4	11.5	5.68	2.49	1.09	310			
Φ a	0.00	0.00	0.00	0.00	0.74	8.37	19.9	33.4	41.4	43.4	40.4	32.8	24.1	16.5	9.51	3.14	0.00	0.00		274		

Test System:HOPOO HPG1600
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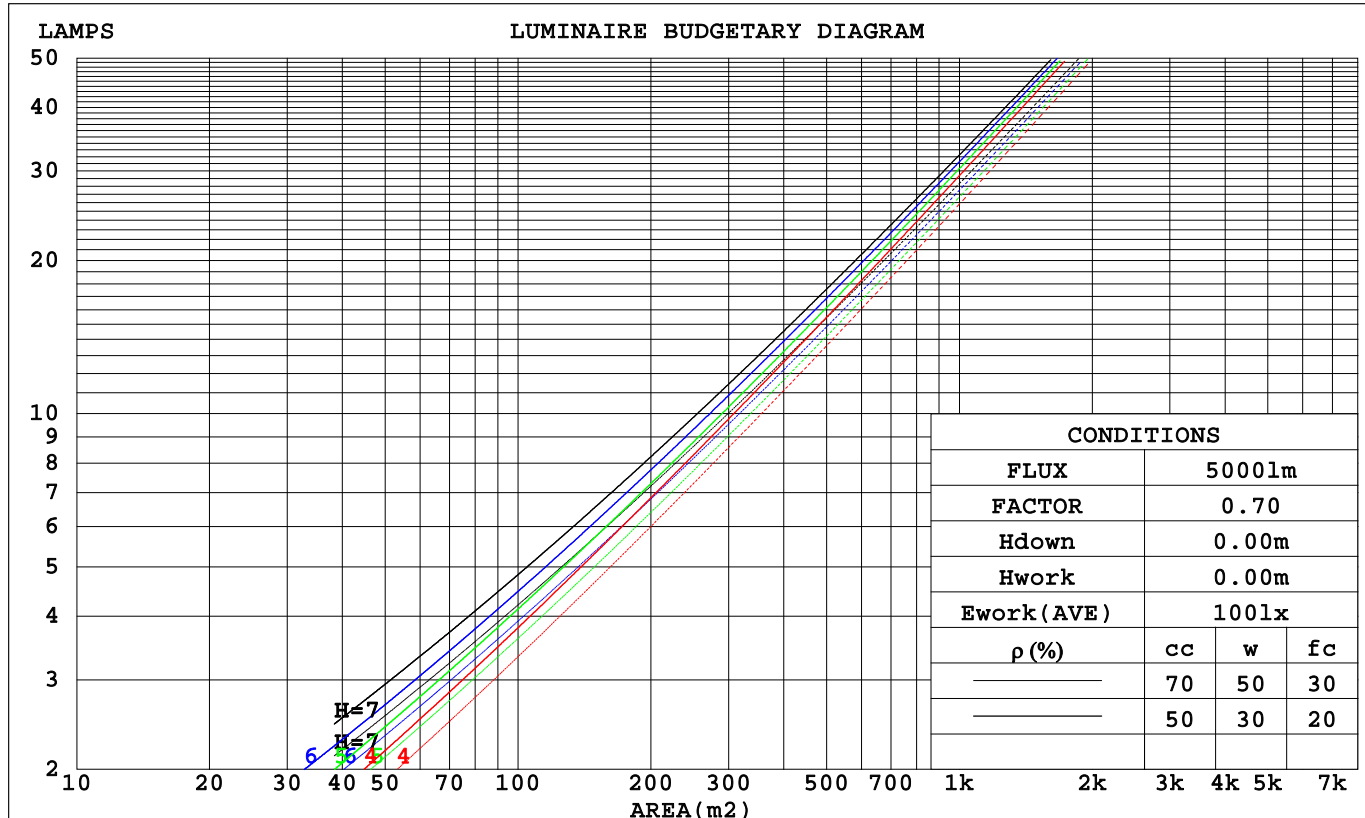
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER: Brilliance LED , LLC			
Address:			
NAME: Par36-4W-60°-3000K		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 3000	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															



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WEC AND CCEC

Report number:

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Address:											
NAME: Par36-4W-60°-3000K						TYPE:			WEIGHT:		
SPECIFICATION:			CCT(K): 3000			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	.203	.116	.037	.196	.112	.036	.183	.105	.033	.171	.098	.032	.159	.092	.030	
2.0	.195	.107	.033	.189	.104	.032	.177	.099	.031	.167	.094	.029	.157	.089	.028	
3.0	.185	.098	.029	.180	.096	.029	.170	.092	.028	.161	.088	.027	.152	.084	.026	
4.0	.175	.091	.027	.171	.089	.026	.162	.086	.026	.154	.083	.025	.147	.080	.024	
5.0	.166	.085	.025	.162	.083	.024	.154	.080	.024	.147	.078	.023	.141	.075	.023	
6.0	.157	.079	.023	.154	.078	.022	.147	.075	.022	.141	.073	.022	.135	.071	.021	
7.0	.149	.074	.021	.146	.073	.021	.140	.071	.020	.135	.069	.020	.129	.067	.020	
8.0	.142	.069	.020	.139	.069	.019	.134	.067	.019	.129	.065	.019	.124	.064	.019	
9.0	.135	.065	.018	.133	.065	.018	.128	.063	.018	.123	.062	.018	.119	.061	.017	
10.0	.129	.062	.017	.127	.061	.017	.122	.060	.017	.118	.059	.017	.114	.058	.017	

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	.199	.199	.199	.170	.170	.170	.116	.116	.116	.067	.067	.067	.021	.021	.021	
1.0	.181	.166	.151	.155	.142	.130	.106	.098	.090	.061	.057	.052	.020	.018	.017	
2.0	.168	.141	.118	.144	.121	.102	.098	.084	.071	.057	.049	.042	.018	.016	.014	
3.0	.157	.122	.095	.134	.105	.082	.092	.073	.058	.053	.043	.034	.017	.014	.011	
4.0	.147	.108	.078	.126	.093	.068	.087	.065	.048	.050	.038	.028	.016	.012	.009	
5.0	.139	.097	.065	.119	.084	.057	.082	.058	.040	.048	.034	.024	.015	.011	.008	
6.0	.132	.088	.056	.113	.076	.049	.078	.053	.034	.045	.031	.020	.015	.010	.007	
7.0	.125	.080	.049	.108	.070	.042	.075	.049	.030	.043	.029	.018	.014	.009	.006	
8.0	.120	.074	.043	.103	.064	.037	.071	.045	.027	.041	.027	.016	.013	.009	.005	
9.0	.114	.069	.038	.099	.060	.034	.068	.042	.024	.040	.025	.014	.013	.008	.005	
10.0	.110	.065	.035	.095	.056	.030	.066	.040	.022	.038	.023	.013	.012	.008	.004	

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Test Set: 5.0deg/s C-Gamma (TYPE C)
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 Remarks:

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UGR Table

Report number:

MANUFACTURER: Brilliance LED , LLC											
Address:											
NAME: Par36-4W-60°-3000K						TYPE:		WEIGHT:			
SPECIFICATION:		CCT(K): 3000				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					Viewed endwise				
x = 2H y = 2H	2H	11.4	12.4	11.6	12.6	12.8	8.3	9.3	8.5	9.5	9.7
	3H	11.6	12.6	11.9	12.8	13.0	8.2	9.2	8.5	9.4	9.6
	4H	11.7	12.6	12.0	12.8	13.1	8.1	9.0	8.4	9.3	9.5
	6H	11.8	12.6	12.1	12.9	13.2	8.0	8.9	8.3	9.1	9.4
	8H	11.8	12.7	12.2	12.9	13.2	8.0	8.8	8.3	9.1	9.4
	12H	11.9	12.7	12.2	13.0	13.3	7.9	8.7	8.3	9.0	9.3
4H	2H	11.2	12.2	11.5	12.4	12.7	8.4	9.3	8.7	9.6	9.8
	3H	11.5	12.3	11.9	12.6	12.9	8.4	9.2	8.7	9.5	9.8
	4H	11.7	12.4	12.1	12.7	13.1	8.3	9.0	8.7	9.4	9.7
	6H	11.9	12.5	12.3	12.9	13.2	8.2	8.9	8.6	9.2	9.6
	8H	12.0	12.6	12.4	12.9	13.3	8.2	8.8	8.6	9.2	9.6
	12H	12.1	12.6	12.5	13.0	13.4	8.2	8.7	8.6	9.1	9.5
8H	4H	11.6	12.2	12.0	12.6	13.0	8.3	8.9	8.7	9.3	9.7
	6H	11.8	12.3	12.3	12.7	13.2	8.3	8.8	8.7	9.2	9.6
	8H	12.0	12.4	12.5	12.9	13.3	8.3	8.7	8.7	9.1	9.6
	12H	12.2	12.5	12.7	13.0	13.5	8.2	8.6	8.7	9.1	9.5
12H	4H	11.6	12.1	12.0	12.5	12.9	8.3	8.9	8.7	9.3	9.7
	6H	11.8	12.2	12.3	12.7	13.1	8.3	8.7	8.8	9.2	9.6
	8H	12.0	12.3	12.5	12.8	13.3	8.3	8.7	8.8	9.1	9.6
Variations with the observer position at spacings:											
S = 1.0H	+ 1.0 / - 1.4					+ 1.8 / - 3.5					
1.5H	+ 1.4 / - 1.8					+ 1.9 / - 3.5					
2.0H	+ 3.5 / - 2.7					+ 2.6 / - 3.7					

CIE Pub.117 Corrected 310.2 lm Total Lamp Luminous Flux.(8log(F/F0) = -4.1)

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

Test Set: 5.0deg/s 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-60°-3000K		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 3000	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	78	70	65	77	70	65	77	69	65	61
0.80	87	79	74	86	79	74	84	78	74	69
1.00	93	86	81	92	85	81	90	85	80	75
1.25	98	91	87	97	91	86	94	89	86	80
1.50	101	95	91	100	94	90	97	93	89	84
2.00	105	100	96	103	99	95	100	97	93	87
2.50	107	102	99	105	101	98	102	99	96	89
3.00	109	105	102	107	103	100	104	101	98	91
4.00	112	108	105	109	106	104	105	103	101	93
5.00	113	110	108	111	108	106	107	105	103	95
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended				SHRNOM = 1.25		

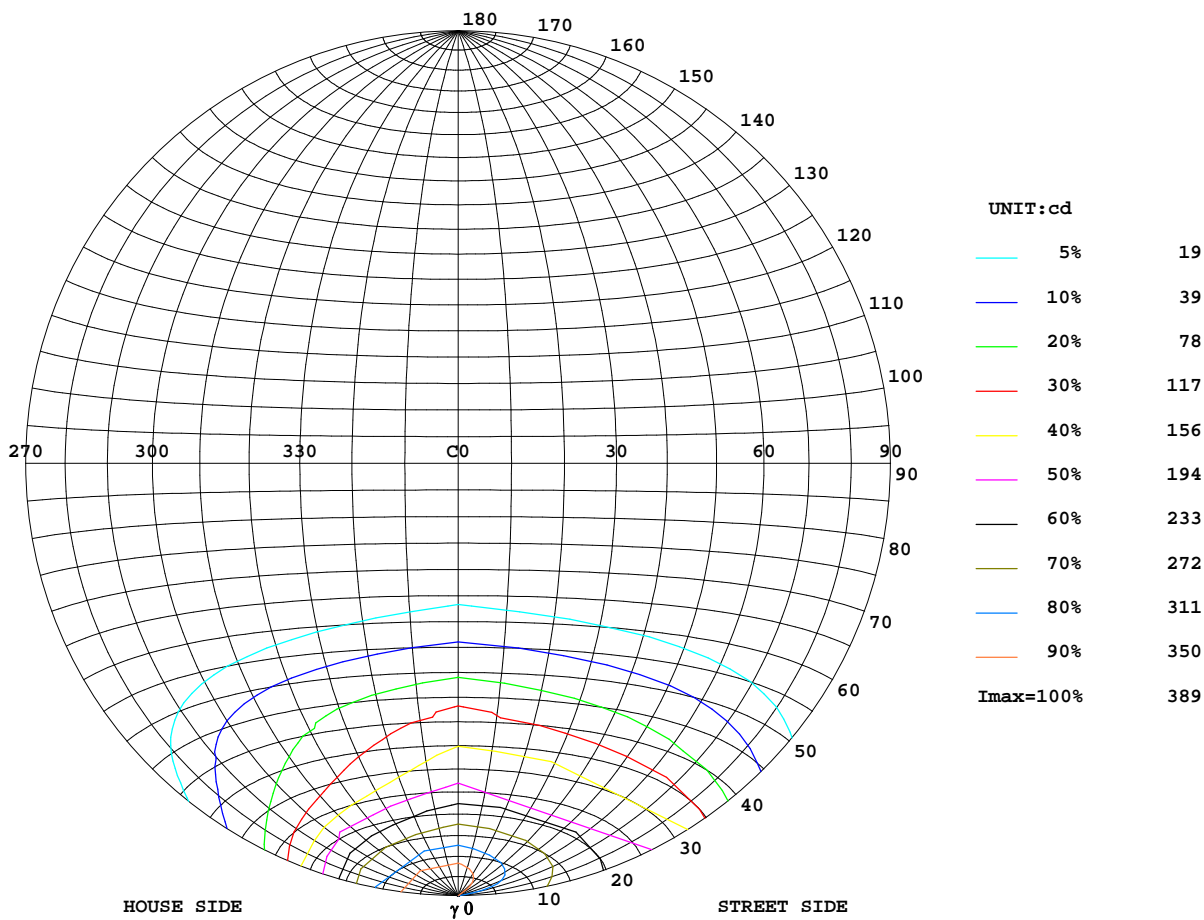
Test System:HOPOO HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:2020年08月24日

Test Set: 5.0deg/s 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-60°-3000K		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 3000	DIMENSION:	SERIAL No.: 1



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

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks:

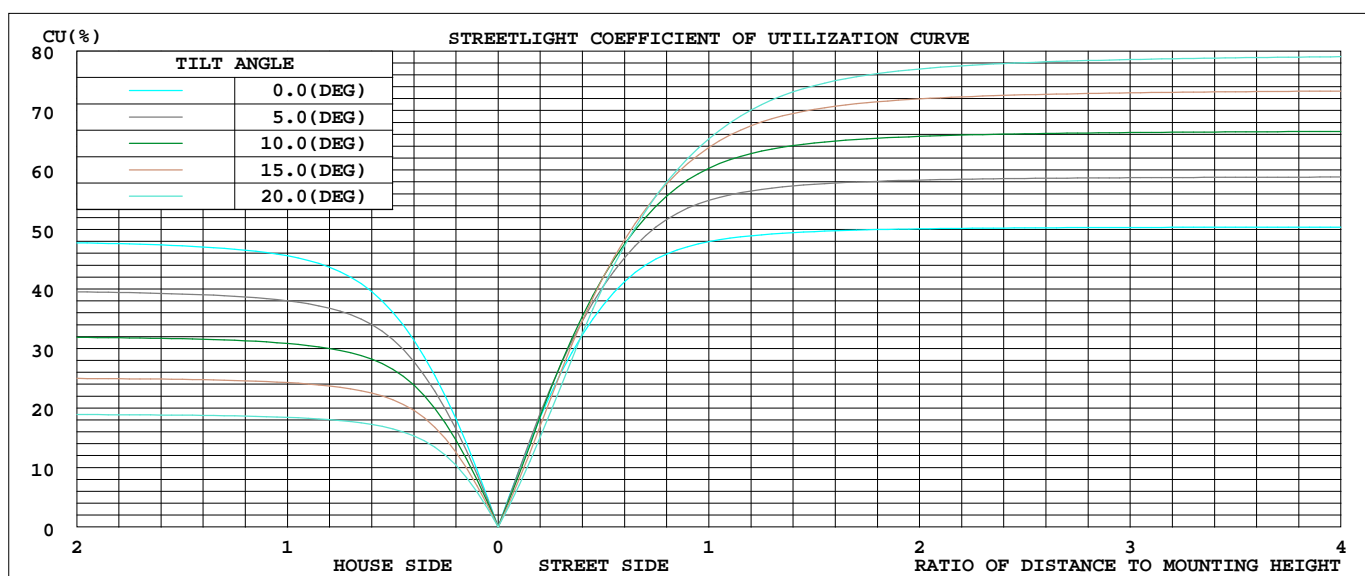
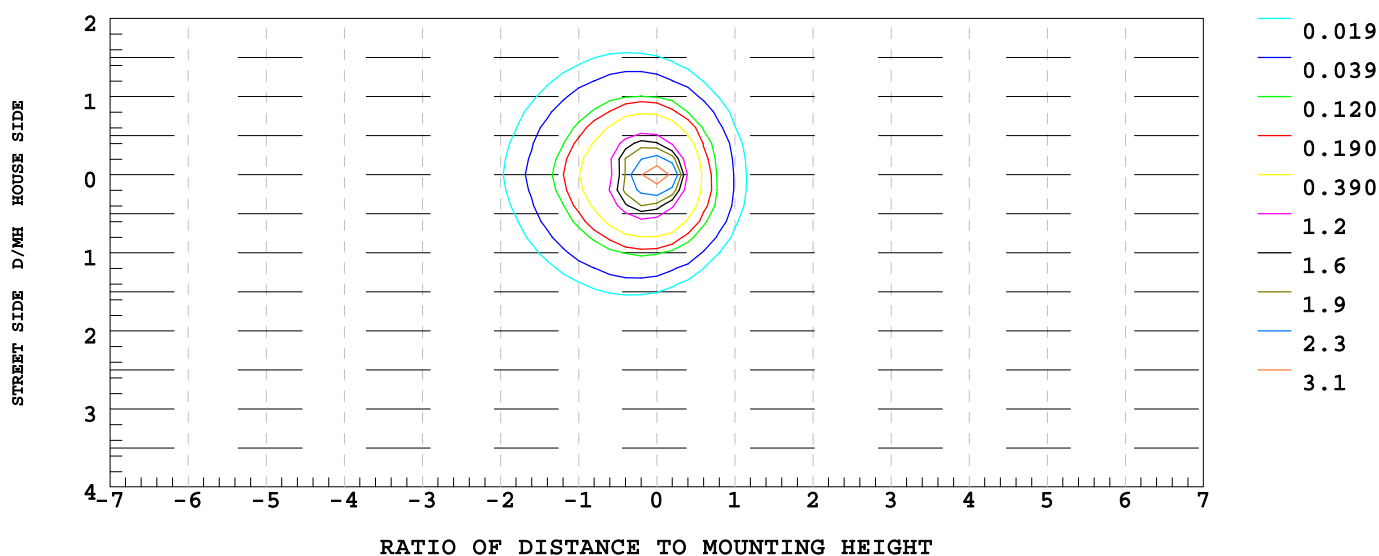
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER: Brilliance LED , LLC			
Address:			
NAME: Par36-4W-60°-3000K		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 3000	DIMENSION:	SERIAL No.: 1

ILLUMINANCE AT MH=10 m,Enadir = 3.89 lx



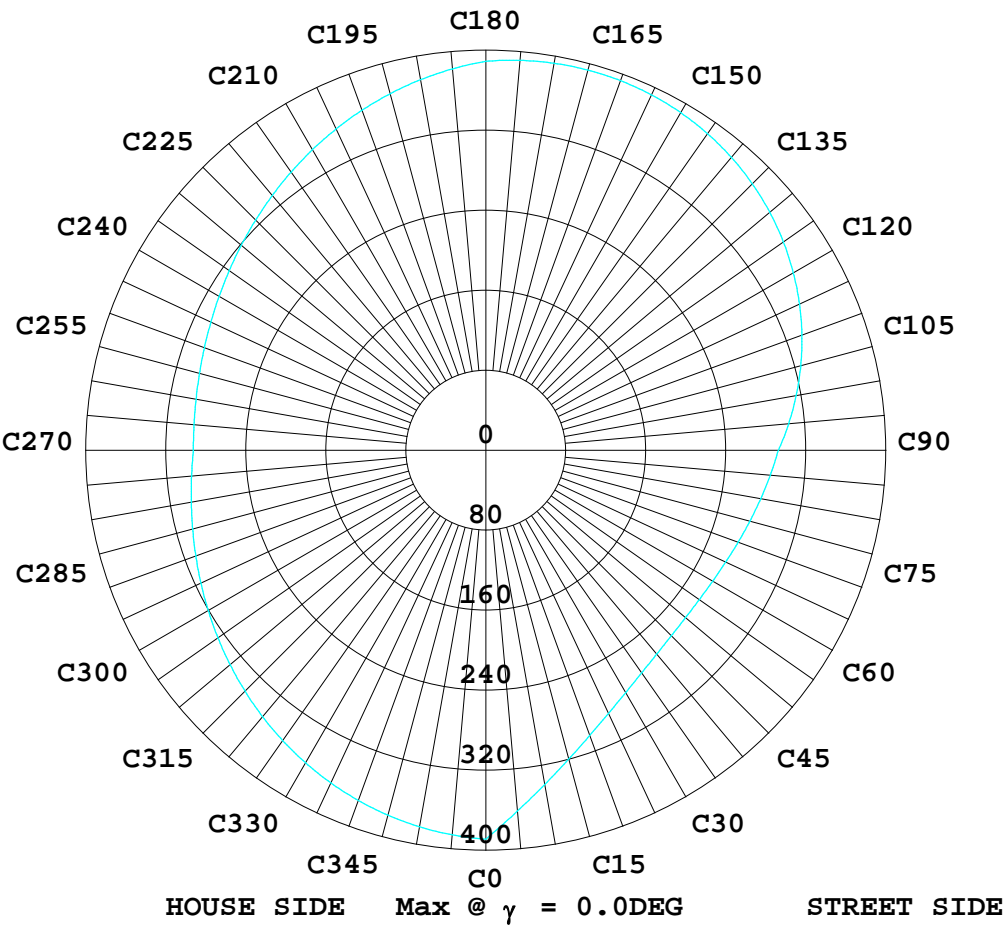
Test System:HOPOO HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:2020年08月24日

Test Set: 5.0deg/s 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-60°-3000K		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 3000	DIMENSION:	SERIAL No.: 1



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

Test Set: 5.0deg/s 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-60°-3000K		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 3000	DIMENSION:	SERIAL No.: 1

UNIT: cd

C(DEG) γ (DEG)	0	90	180	270
0.0	389	293	389	293
5.0	374	288	370	285
10.0	334	278	324	272
15.0	294	259	250	244
20.0	253	231	166	213
25.0	209	205	94.3	185
30.0	178	167	51.0	145
35.0	155	115	28.4	94.9
40.0	133	66.7	16.6	55.0
45.0	105	36.3	9.92	31.1
50.0	71.7	20.4	5.24	19.0
55.0	43.4	12.3	2.43	12.4
60.0	26.1	7.42	0.58	8.57
65.0	16.7	3.90	0.06	5.56
70.0	11.0	1.60	0.00	3.39
75.0	7.55	0.26	0.00	1.72
80.0	5.12	0.00	0.00	1.15
85.0	3.13	0.00	0.00	0.96
90.0	1.79	0.00	0.00	0.83
95.0	1.15	0.00	0.06	0.70
100.0	1.02	0.00	0.06	0.70
105.0	0.90	0.00	0.13	0.58
110.0	0.77	0.00	0.19	0.58
115.0	0.77	0.00	0.26	0.51
120.0	0.64	0.00	0.32	0.51
125.0	0.64	0.00	0.45	0.58
130.0	0.58	0.06	0.51	0.58
135.0	0.64	0.13	0.64	0.70
140.0	0.70	0.19	0.70	0.70
145.0	0.77	0.32	0.83	0.77
150.0	0.83	0.51	1.02	0.83
155.0	0.96	0.58	1.15	0.96
160.0	1.02	0.64	1.28	1.02
165.0	1.08	0.77	1.47	1.08
170.0	1.21	0.83	1.47	1.15
175.0	1.15	0.96	1.47	1.15
180.0	1.28	0.96	1.47	1.21

Test System:HOPOO HPG1600
Temperature:25.3DEG
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Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks: