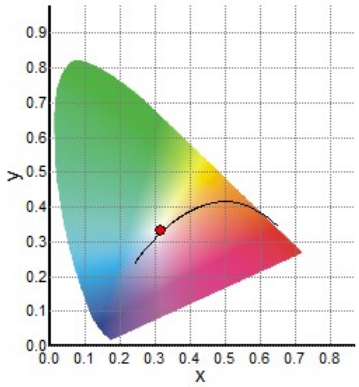
Report of Photometry & Chromaticity for Light Source



Product Description

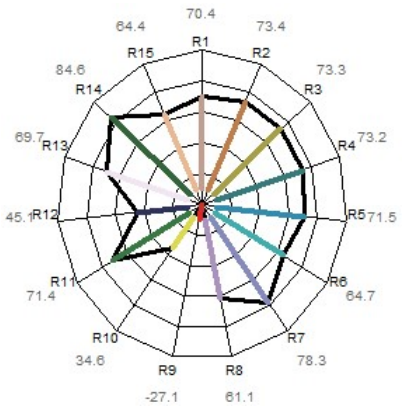
Product Name	Typhon IP BSW 400 - Narrow (3°), 5M
Sample Number	
Date(YYYY/MM/DD)	2024/9/19 16:44:17
Manufacturer	Blizzard Lighting
Tester	Joe Thomas
Temperature(°C)	Re. Humidity(%)
Reviewer	



CIE1931 Chromaticity Diagram

Photometry and Chromaticity

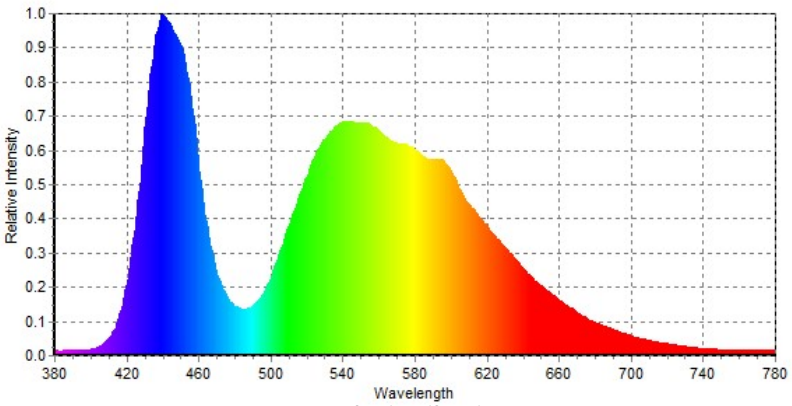
CIE_x	0.3171	Duv	0.0022
CIE_y	0.3312	λd(nm)	490.1
CIE_u'	0.2000	Purity(%)	6
CIE_v'	0.4702	FWHM(nm)	35
CCT(K)	6262	SP ratio	1.95
Illuminance(lx)	109514	PPFD(μmol/m² s)	1556.0
λp(nm)	440	CRI(Ra)	71
TLCI(Qa)	47.4	GAI	86.9
GAI BB8	90	GAI BB15	93
TM-30 Rf	68	TM-30 Rg	95



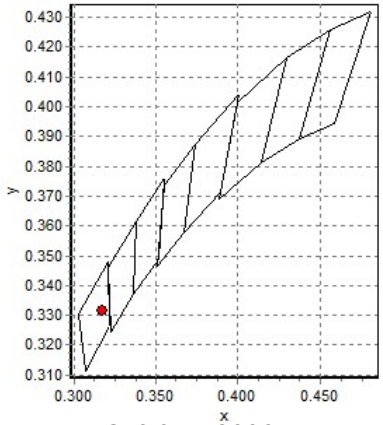
Radar Diagram of CRI

CQS-Qa	70	Re(thru R1~R15)	61		
R1	70.4	R6	64.7	R11	71.4
R2	73.4	R7	78.3	R12	45.1
R3	73.3	R8	61.1	R13	69.7
R4	73.2	R9	-27.1	R14	84.6
R5	71.5	R10	34.6	R15	64.4

Flicker Frequency(Hz)	Flicker %
Flicker Index	



Spectral Distribution



C78.377-2008

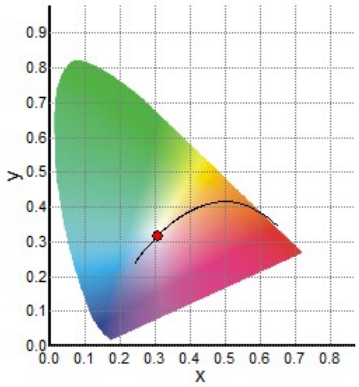
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Report of Photometry & Chromaticity for Light Source



Product Description

Product Name	Typhon IP BSW 400 - Narrow (3°), 10M
Sample Number	
Date(YYYY/MM/DD)	2024/9/19 16:50:39
Manufacturer	Blizzard Lighting
Tester	Joe Thomas
Temperature(°C)	Re. Humidity(%)
Reviewer	



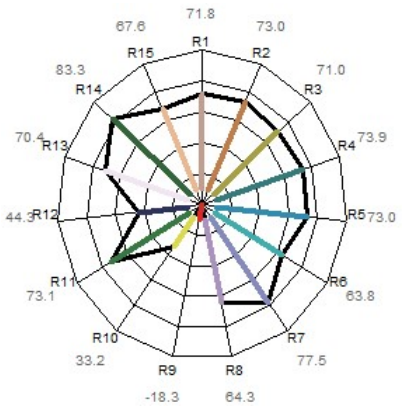
CIE1931 Chromaticity Diagram

Photometry and Chromaticity

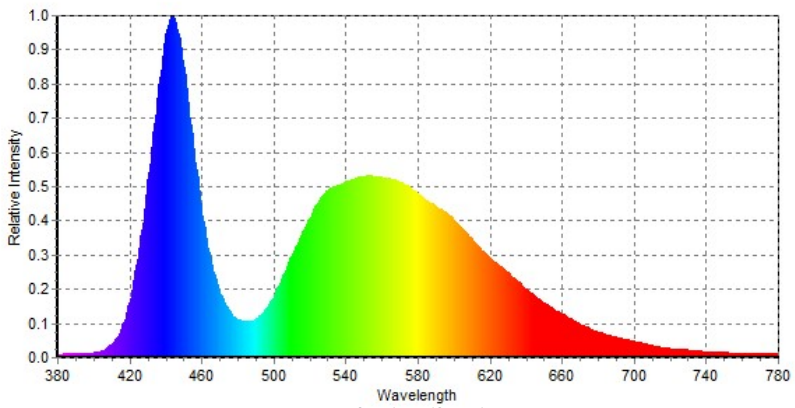
CIE_x	0.3097	Duv	-0.0021
CIE_y	0.3160	λd(nm)	481.5
CIE_u'	0.2007	Purity(%)	9
CIE_v'	0.4607	FWHM(nm)	30
CCT(K)	6799	SP ratio	2.01
Illuminance(lx)	27759	PPFD(μmol/m² s)	404.3
λp(nm)	444	CRI(Ra)	71
TLCI(Qa)	46.2	GAI	90.9
GAI BB8	92	GAI BB15	95
TM-30 Rf	66	TM-30 Rg	96

CQS-Qa	69	Re(thru R1~R15)	61		
R1	71.8	R6	63.8	R11	73.1
R2	73.0	R7	77.5	R12	44.3
R3	71.0	R8	64.3	R13	70.4
R4	73.9	R9	-18.3	R14	83.3
R5	73.0	R10	33.2	R15	67.6

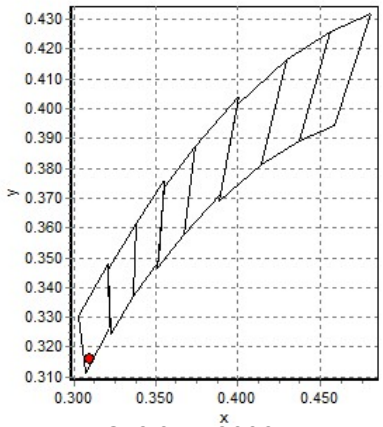
Flicker Frequency(Hz)	Flicker %
Flicker Index	



Radar Diagram of CRI



Spectral Distribution



C78.377-2008

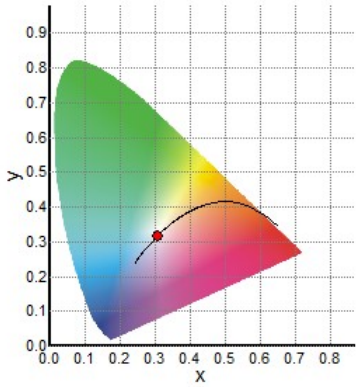
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Report of Photometry & Chromaticity for Light Source



Product Description

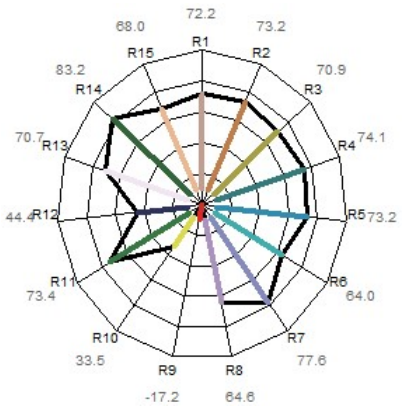
Product Name	Typhon IP BSW 400 - Narrow (3°), 15M
Sample Number	
Date(YYYY/MM/DD)	2024/9/19 16:53:44
Manufacturer	Blizzard Lighting
Tester	Joe Thomas
Temperature(°C)	Re. Humidity(%)
Reviewer	



CIE1931 Chromaticity Diagram

Photometry and Chromaticity

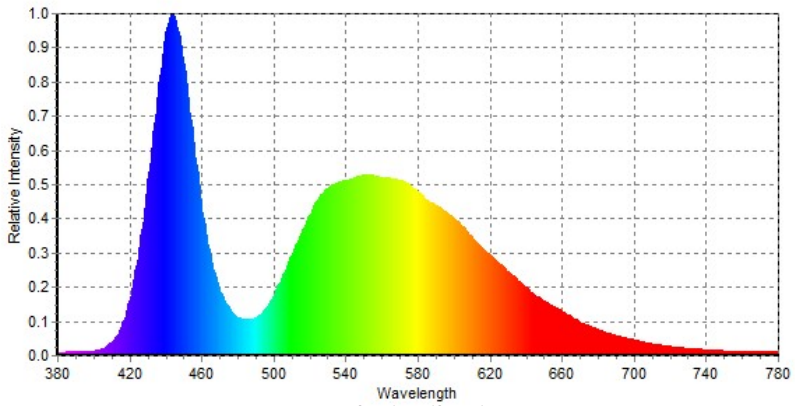
CIE_x	0.3095	Duv	-0.0023
CIE_y	0.3154	λd(nm)	481.2
CIE_u'	0.2008	Purity(%)	10
CIE_v'	0.4604	FWHM(nm)	30
CCT(K)	6819	SP ratio	2.01
Illuminance(lx)	12244	PPFD(μmol/m² s)	178.4
λp(nm)	444	CRI(Ra)	71
TLCI(Qa)	46.5	GAI	91.1
GAI BB8	92	GAI BB15	95
TM-30 Rf	66	TM-30 Rg	96



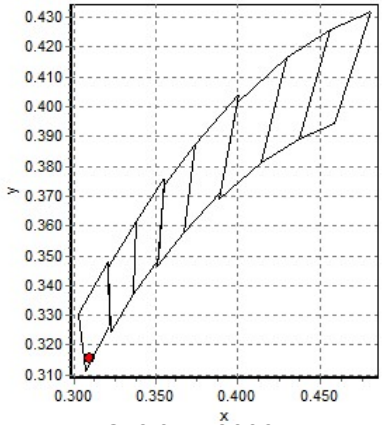
Radar Diagram of CRI

CQS-Qa	69	Re(thru R1~R15)	62		
R1	72.2	R6	64.0	R11	73.4
R2	73.2	R7	77.6	R12	44.4
R3	70.9	R8	64.6	R13	70.7
R4	74.1	R9	-17.2	R14	83.2
R5	73.2	R10	33.5	R15	68.0

Flicker Frequency(Hz)	Flicker %
Flicker Index	



Spectral Distribution



C78.377-2008

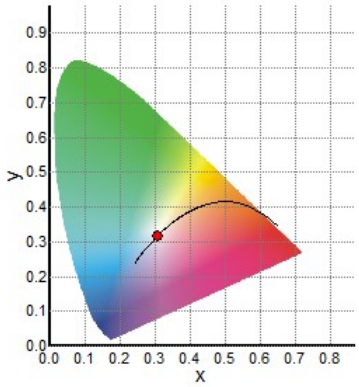
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Report of Photometry & Chromaticity for Light Source



Product Description

Product Name	Typhon IP BSW 400 - Narrow (3°), 20M
Sample Number	
Date(YYYY/MM/DD)	2024/9/19 16:56:51
Manufacturer	Blizzard Lighting
Tester	Joe Thomas
Temperature(°C)	Re. Humidity(%)
Reviewer	



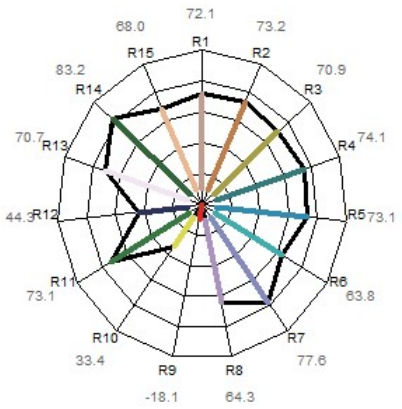
CIE1931 Chromaticity Diagram

Photometry and Chromaticity

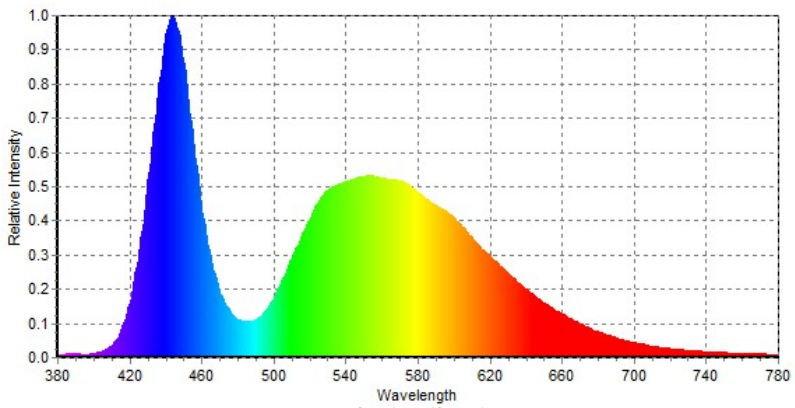
CIE_x	0.3103	Duv	-0.0027
CIE_y	0.3153	λd(nm)	480.8
CIE_u'	0.2014	Purity(%)	9
CIE_v'	0.4605	FWHM(nm)	30
CCT(K)	6772	SP ratio	2.00
Illuminance(lx)	6865	PPFD(μmol/m² s)	99.8
λp(nm)	444	CRI(Ra)	71
TLCI(Qa)	45.7	GAI	91.1
GAI BB8	92	GAI BB15	96
TM-30 Rf	66	TM-30 Rg	96

CQS-Qa	69	Re(thru R1~R15)	62		
R1	72.1	R6	63.8	R11	73.1
R2	73.2	R7	77.6	R12	44.3
R3	70.9	R8	64.3	R13	70.7
R4	74.1	R9	-18.1	R14	83.2
R5	73.1	R10	33.4	R15	68.0

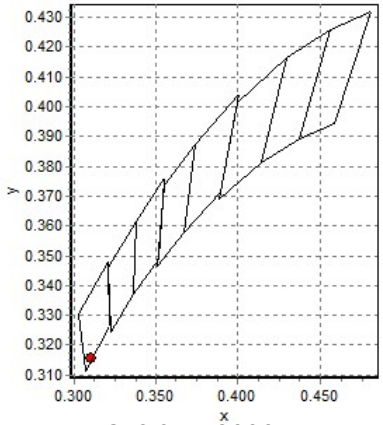
Flicker Frequency(Hz)	Flicker %
Flicker Index	



Radar Diagram of CRI



Spectral Distribution



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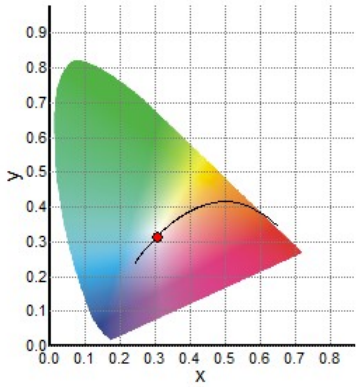
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Report of Photometry & Chromaticity for Light Source



Product Description

Product Name	Typhon IP BSW 400 - Wide (38°), 5M
Sample Number	
Date(YYYY/MM/DD)	2024/9/19 16:47:36
Manufacturer	Blizzard Lighting
Tester	Joe Thomas
Temperature(°C)	Re. Humidity(%)
Reviewer	



CIE1931 Chromaticity Diagram

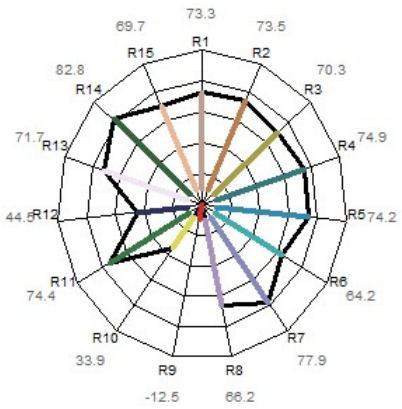
Photometry and Chromaticity

CIE_x	0.3068	Duv	-0.0032
CIE_y	0.3110	λd(nm)	479.8
CIE_u'	0.2006	Purity(%)	11
CIE_v'	0.4575	FWHM(nm)	30
CCT(K)	7054	SP ratio	2.04
Illuminance(lx)	2324	PPFD(μmol/m² s)	34.0
λp(nm)	444	CRI(Ra)	72
TLCI(Qa)	47.1	GAI	92.5
GAI BB8	93	GAI BB15	96
TM-30 Rf	66	TM-30 Rg	96

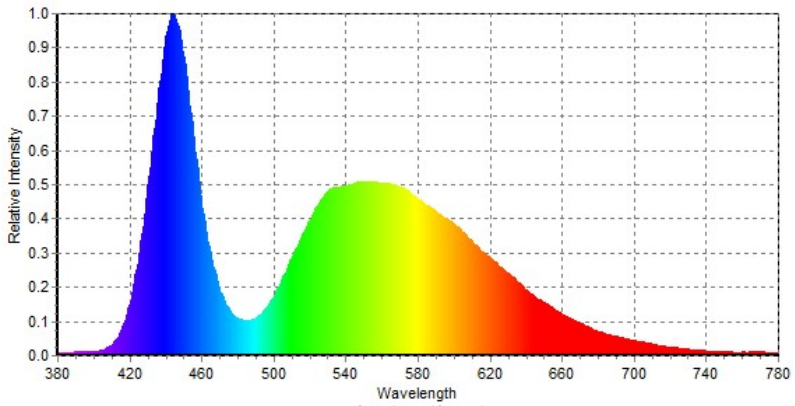
CQS-Qa	69	Re(thru R1~R15)	63

R1	73.3	R6	64.2	R11	74.4
R2	73.5	R7	77.9	R12	44.5
R3	70.3	R8	66.2	R13	71.7
R4	74.9	R9	-12.5	R14	82.8
R5	74.2	R10	33.9	R15	69.7

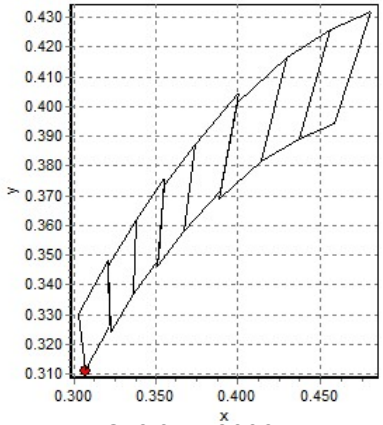
Flicker Frequency(Hz)	Flicker %
Flicker Index	



Radar Diagram of CRI



Spectral Distribution



C78.377-2008

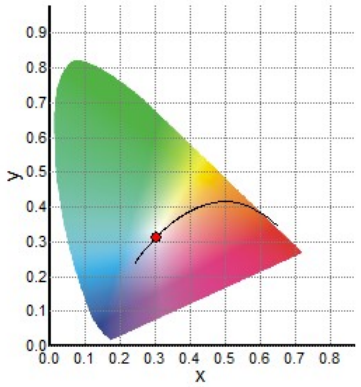
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Report of Photometry & Chromaticity for Light Source



Product Description

Product Name	Typhon IP BSW 400 - Wide (38°), 10M
Sample Number	
Date(YYYY/MM/DD)	2024/9/19 16:51:20
Manufacturer	Blizzard Lighting
Tester	Joe Thomas
Temperature(°C)	Re. Humidity(%)
Reviewer	



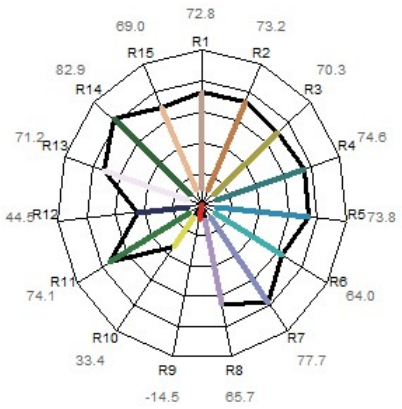
CIE1931 Chromaticity Diagram

Photometry and Chromaticity

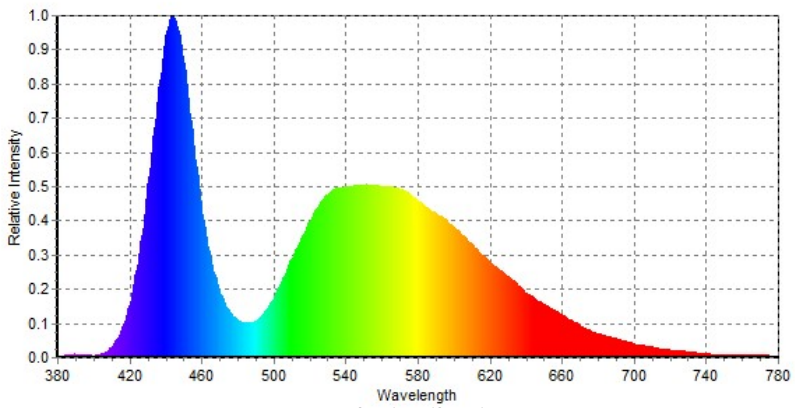
CIE_x	0.3064	Duv	-0.0027
CIE_y	0.3116	λd(nm)	480.3
CIE_u'	0.2001	Purity(%)	11
CIE_v'	0.4577	FWHM(nm)	29
CCT(K)	7069	SP ratio	2.04
Illuminance(lx)	650	PPFD(μmol/m² s)	9.5
λp(nm)	444	CRI(Ra)	72
TLCI(Qa)	47.0	GAI	92.1
GAI BB8	92	GAI BB15	96
TM-30 Rf	66	TM-30 Rg	96

CQS-Qa	69			Re(thru R1~R15)	62
R1	72.8	R6	64.0	R11	74.1
R2	73.2	R7	77.7	R12	44.5
R3	70.3	R8	65.7	R13	71.2
R4	74.6	R9	-14.5	R14	82.9
R5	73.8	R10	33.4	R15	69.0

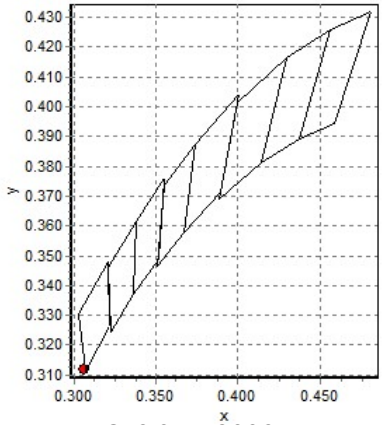
Flicker Frequency(Hz)	Flicker %
Flicker Index	



Radar Diagram of CRI



Spectral Distribution



C78.377-2008

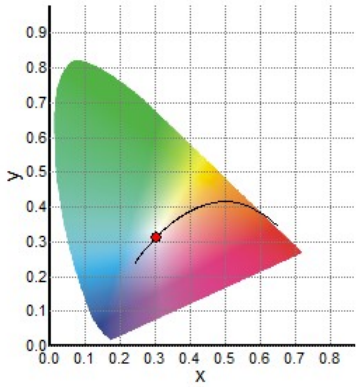
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Report of Photometry & Chromaticity for Light Source



Product Description

Product Name	Typhon IP BSW 400 - Wide (38°), 15M
Sample Number	
Date(YYYY/MM/DD)	2024/9/19 16:54:52
Manufacturer	Blizzard Lighting
Tester	Joe Thomas
Temperature(°C)	Re. Humidity(%)
Reviewer	



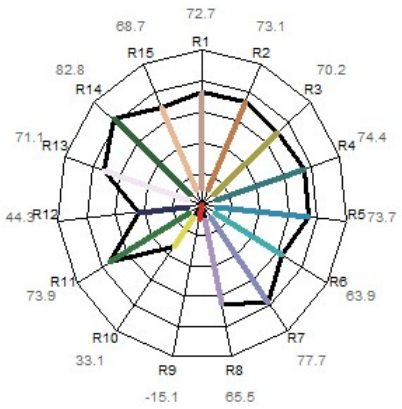
CIE1931 Chromaticity Diagram

Photometry and Chromaticity

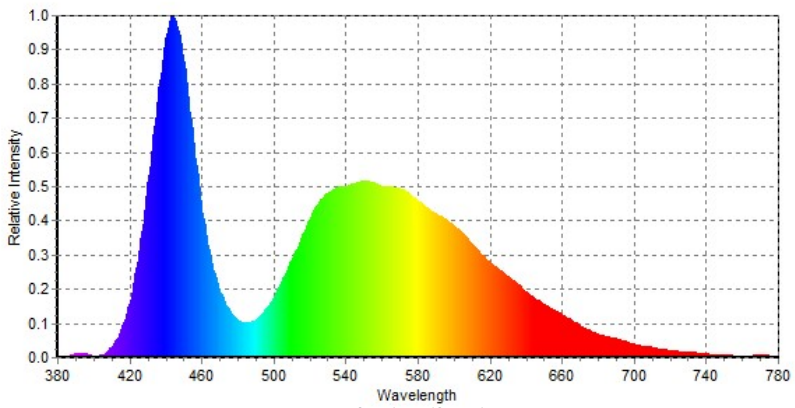
CIE_x	0.3063	Duv	-0.0024
CIE_y	0.3119	λd(nm)	480.6
CIE_u'	0.1998	Purity(%)	11
CIE_v'	0.4579	FWHM(nm)	29
CCT(K)	7072	SP ratio	2.04
Illuminance(lx)	309	PPFD(μmol/m² s)	4.5
λp(nm)	444	CRI(Ra)	71
TLCI(Qa)	47.0	GAI	91.9
GAI BB8	92	GAI BB15	95
TM-30 Rf	66	TM-30 Rg	96

CQS-Qa	69	Re(thru R1~R15)	62		
R1	72.7	R6	63.9	R11	73.9
R2	73.1	R7	77.7	R12	44.3
R3	70.2	R8	65.5	R13	71.1
R4	74.4	R9	-15.1	R14	82.8
R5	73.7	R10	33.1	R15	68.7

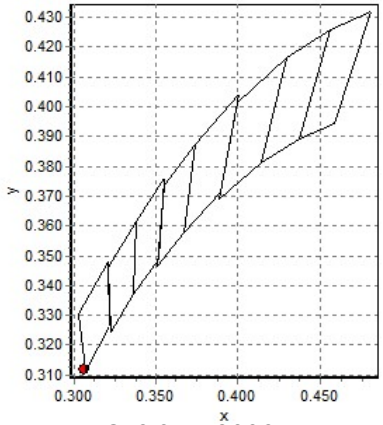
Flicker Frequency(Hz)	Flicker %
Flicker Index	



Radar Diagram of CRI



Spectral Distribution



C78.377-2008

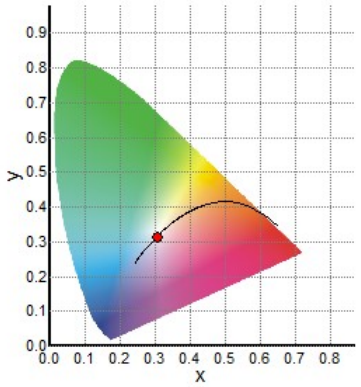
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Report of Photometry & Chromaticity for Light Source



Product Description

Product Name	Typhon IP BSW 400 - Wide (38°), 20M
Sample Number	
Date(YYYY/MM/DD)	2024/9/19 16:57:30
Manufacturer	Blizzard Lighting
Tester	Joe Thomas
Temperature(°C)	Re. Humidity(%)
Reviewer	

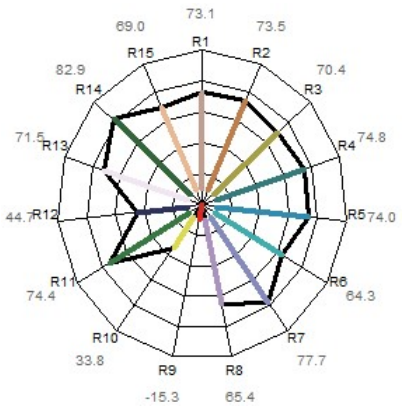


CIE1931 Chromaticity Diagram

Photometry and Chromaticity

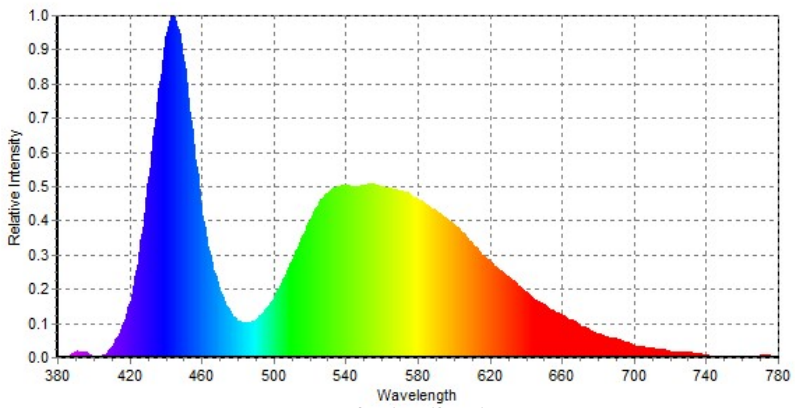
CIE_x	0.3069	Duv	-0.0029
CIE_y	0.3116	λd(nm)	480.1
CIE_u'	0.2004	Purity(%)	11
CIE_v'	0.4579	FWHM(nm)	29
CCT(K)	7030	SP ratio	2.04
Illuminance(lx)	177	PPFD(μmol/m² s)	2.6
λp(nm)	444	CRI(Ra)	72
TLCI(Qa)	46.8	GAI	92.2
GAI BB8	92	GAI BB15	96
TM-30 Rf	66	TM-30 Rg	96

CQS-Qa	69			Re(thru R1~R15)	62
R1	73.1	R6	64.3	R11	74.4
R2	73.5	R7	77.7	R12	44.7
R3	70.4	R8	65.4	R13	71.5
R4	74.8	R9	-15.3	R14	82.9
R5	74.0	R10	33.8	R15	69.0

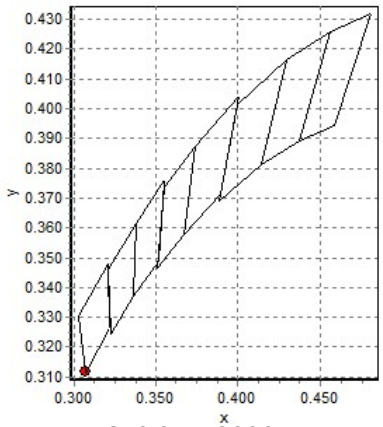


Radar Diagram of CRI

Flicker Frequency(Hz)	Flicker %
Flicker Index	



Spectral Distribution



C78.377-2008

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