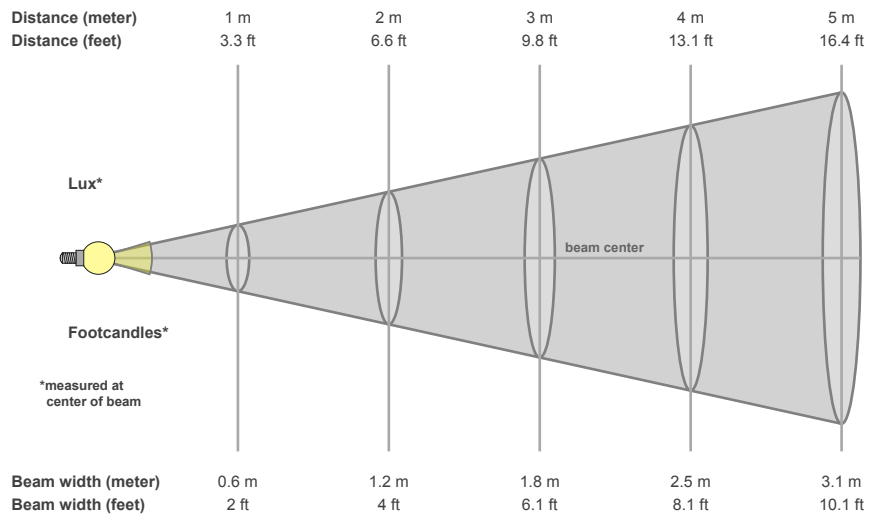
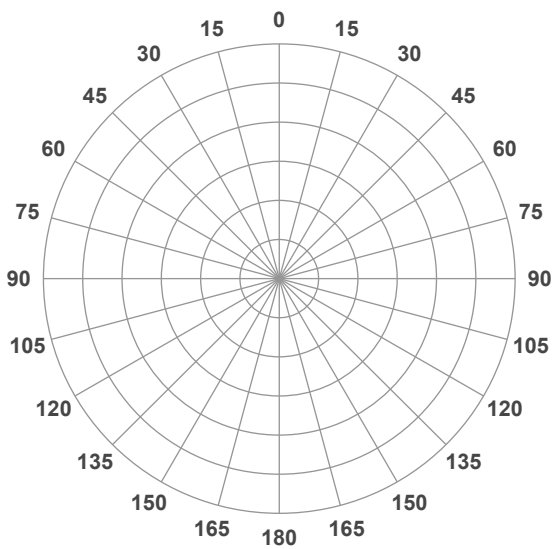
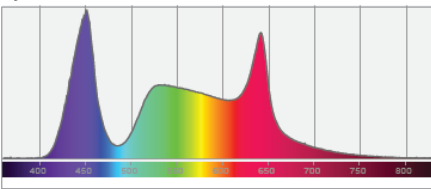
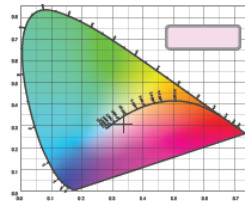




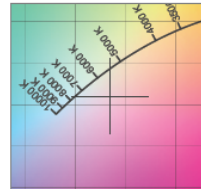
Spectral distribution



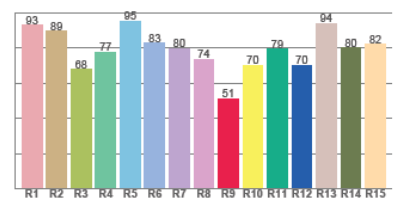
Color coordinates



Zoom color point



CRI R values



Photometric Test Report

*Due to additional product enhancements, an updated version of this report may be available online. Please check www.adj.com for the latest revision/update of this report.

MOD HEX100



Light Efficiency:

15 Lumen/Watt

Dominant Wavelength:

467 nm

Output:

1587 lm

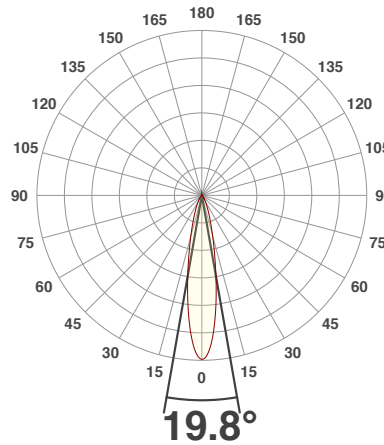
Power:

106 W

Peak:

7607 cd

Beam Angle



Test:

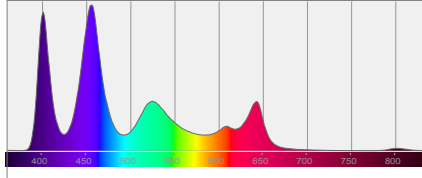
20Deg Full On

Date:

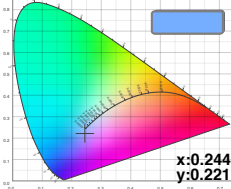
11/20/2018

Note:

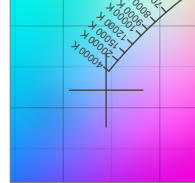
Spectral Distribution



Color Coordinates



Zoom Color Point



Distance (meter)

1

Distance (feet)

3.3

3

9.8

5

16.4

7

22.9

10

32.8

Lux*

19.8°

Foot Candles*

*measured at
center of beam

Beam Width (meter)

Beam Width (feet)

0.3

1.2

1

3.4

1.7

5.7

2.4

8

3.5

11.5

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
19.8°	45.3°	71.9°	99.2%	95.6%

Beam Intensities from 1-20m

m	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ft	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
lx	7606	1901	845	475	304	211	155	119	94	76	63	53	45	39	34	30	26	23	21	19
fcd	706.6	176.6	78.5	44.2	28.3	19.6	14.4	11	8.7	7.1	5.8	4.9	4.2	3.6	3.1	2.8	2.4	2.2	2	1.8

MOD HEX100



Light Efficiency:

19 Lumen/Watt

Dominant Wavelength:

462 nm

Output:

1682 lm

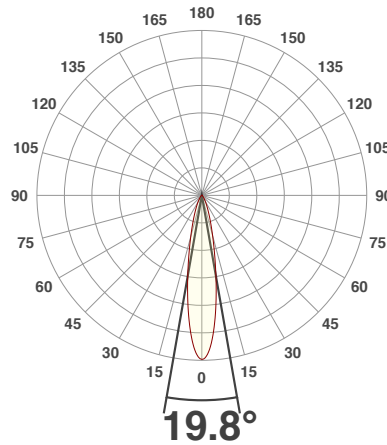
Power:

86.8 W

Peak:

8024 cd

Beam Angle



Test:

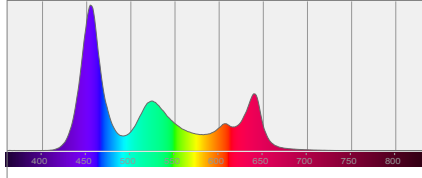
20Deg Full On No UV

Date:

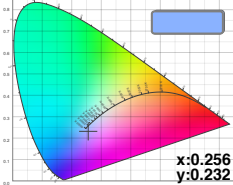
11/20/2018

Note:

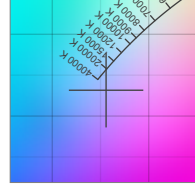
Spectral Distribution



Color Coordinates



Zoom Color Point



Distance (meter)

1

Distance (feet)

3.3

3

9.8

5

16.4

7

22.9

10

32.8

Lux*

19.8°

8022 lx

891 lx

321 lx

501 lx

321 lx

Beam center

Foot Candles*

745 fcd

83 fcd

30 fcd

15 fcd

7 fcd

*measured at
center of beam

Beam Width (meter)

0.3

Beam Width (feet)

1.2

1

3.4

1.7

5.7

2.4

8

3.5

11.5

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
19.8°	45.3°	71.9°	99.2%	95.3%

Beam Intensities from 1-20m

m	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ft	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
lx	8022	2006	891	501	321	223	164	125	99	80	66	56	47	41	36	31	28	25	22	20
fcd	745.3	186.3	82.8	46.6	29.8	20.7	15.2	11.6	9.2	7.5	6.2	5.2	4.4	3.8	3.3	2.9	2.6	2.3	2.1	1.9



Light efficiency:

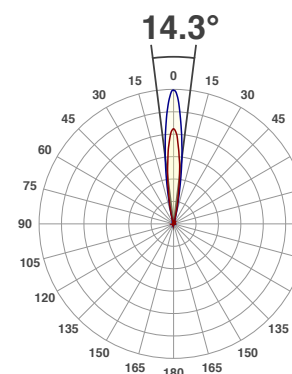
10 Lumen/Watt

Light quality:

CRI: 0.0

Color temperature:

0 K



Product name:
MOD HEX100

Test:

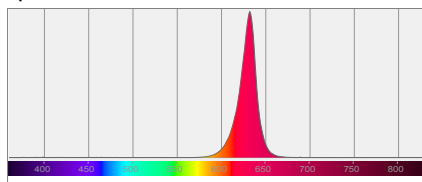
Red

Date:

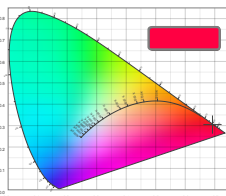
10/10/2017

Output: 161 lm Power consumption: 16.2 W Peak: 2055 cd

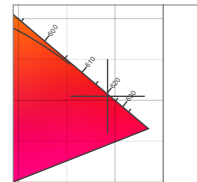
Spectral distribution



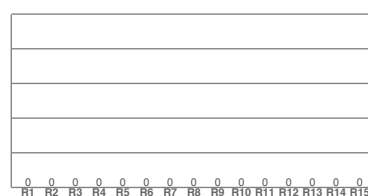
Color coordinates



Zoom color point

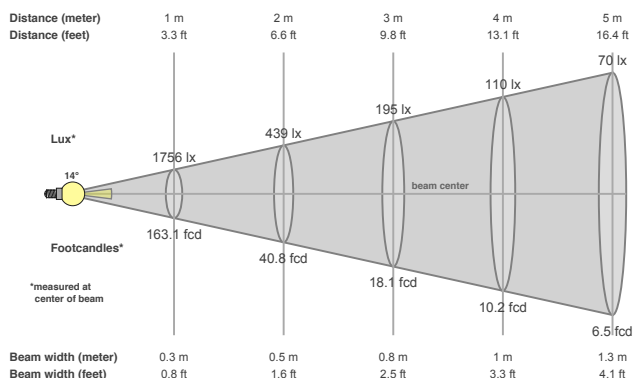


CRI R values



Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color divition from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
0 K	0.0	0.0	0.0	0.0	0.0	0.692	0.305	0.525	0.347	n/a

Beam details



Beam angles

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%
14.3°	26.8°	41.5°

Beam intensities

Peak intensity	Int. ratio in 120° cone	Int. ratio in 90° cone
2055 cd	93.8%	92.0%

Power

Power	Power factor	Power frequency
16.2 W	0.5	60 Hz

Nominal voltage	Voltage	Current
230 V	117 V	0.279 A

Beam intensities from 1-20m

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
1756lx	439lx	195lx	110lx	70lx	49lx	36lx	27lx	22lx	18lx	15lx	12lx	10lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx
163.1fcd	40.8fcd	18.1fcd	10.2fcd	6.5fcd	4.5fcd	3.3fcd	2.5fcd	2fcd	1.6fcd	1.3fcd	1.1fcd	1fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd



Light efficiency:

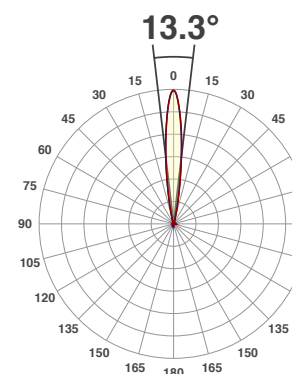
40 Lumen/Watt

Light quality:

CRI: 0.0

Color temperature:

0 K



Product name:

MOD HEX100

Test:

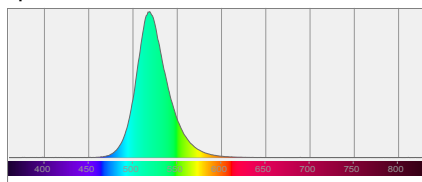
Green

Date:

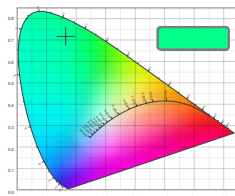
10/10/2017

Output: 850 lm Power consumption: 21.5 W Peak: 11036 cd

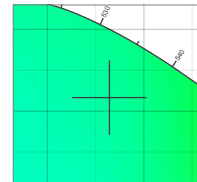
Spectral distribution



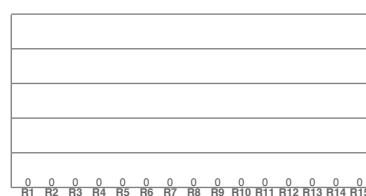
Color coordinates



Zoom color point

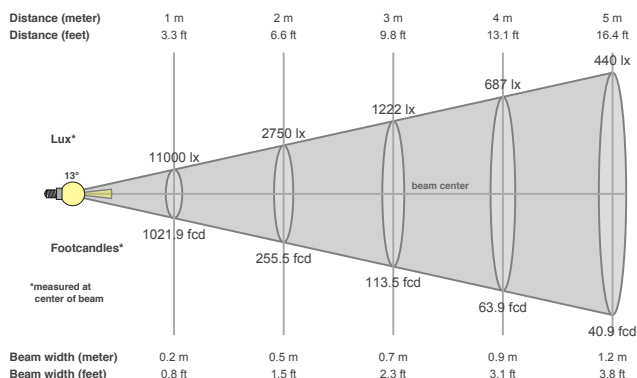


CRI R values



Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color divition from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
0 K	0.0	0.0	0.0	0.0	0.0	0.164	0.717	0.058	0.381	n/a

Beam details



Beam angles

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%
13.3°	25.1°	38.6°

Beam intensities

Peak intensity	Int. ratio in 120° cone	Int. ratio in 90° cone
11036 cd	97.7%	96.2%

Power

Power	Power factor	Power frequency
21.5 W	0.52	60 Hz

Nominal voltage	Voltage	Current
230 V	115 V	0.363 A

Beam intensities from 1-20m

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
11000lx	2750lx	1222lx	687lx	440lx	306lx	224lx	172lx	136lx	110lx	91lx	76lx	65lx	56lx	49lx	43lx	38lx	34lx	30lx	27lx
1021.9fcd	255.5fcd	113.5fcd	63.9fcd	40.9fcd	28.4fcd	20.9fcd	16fcd	12.6fcd	10.2fcd	8.4fcd	7.1fcd	6fcd	5.2fcd	4.5fcd	4fcd	3.5fcd	3.2fcd	2.8fcd	2.6fcd

MOD HEX100



Light Efficiency:

5 Lumen/Watt

Dominant Wavelength:

456 nm

Output:

109 lm

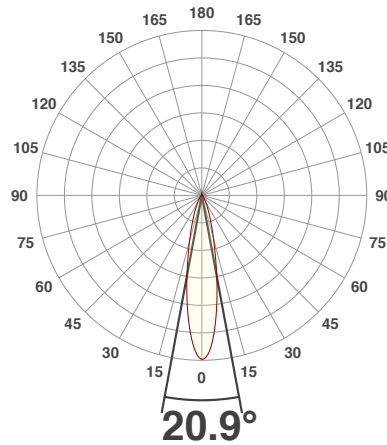
Power:

22.6 W

Peak:

462 cd

Beam Angle



Test:

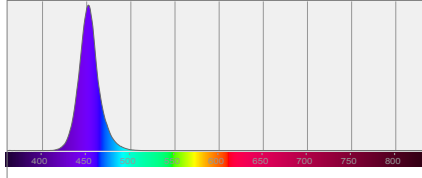
20Deg Blue

Date:

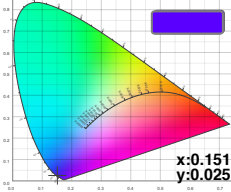
11/20/2018

Note:

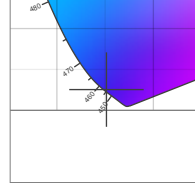
Spectral Distribution



Color Coordinates



Zoom Color Point



Distance (meter)

1

Distance (feet)

3.3

3

9.8

5

16.4

7

22.9

10

32.8

Lux*

462 lx

20.9°

Foot Candles*

43 fcd

*measured at
center of beam

51 lx

18 lx

29 lx

18 lx

Beam center

5 fcd

2 fcd

1 fcd

0 fcd

Beam Width (meter)

0.4

Beam Width (feet)

1.2

1.1

3.6

1.8

6.1

2.6

8.5

3.7

12.1

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
20.9°	47.2°	75.5°	97.1%	91.7%

Beam Intensities from 1-20m

m	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ft	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
lx	462	115	51	29	18	13	9	7	6	5	4	3	3	2	2	2	2	1	1	1
fcd	42.9	10.7	4.8	2.7	1.7	1.2	0.9	0.7	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1

MOD HEX100



Light Efficiency:

11 Lumen/Watt

Light Quality:

CRI: -19.7

Color Temperature:

1395 K

Output: 192 lm

Peak: 899 cd

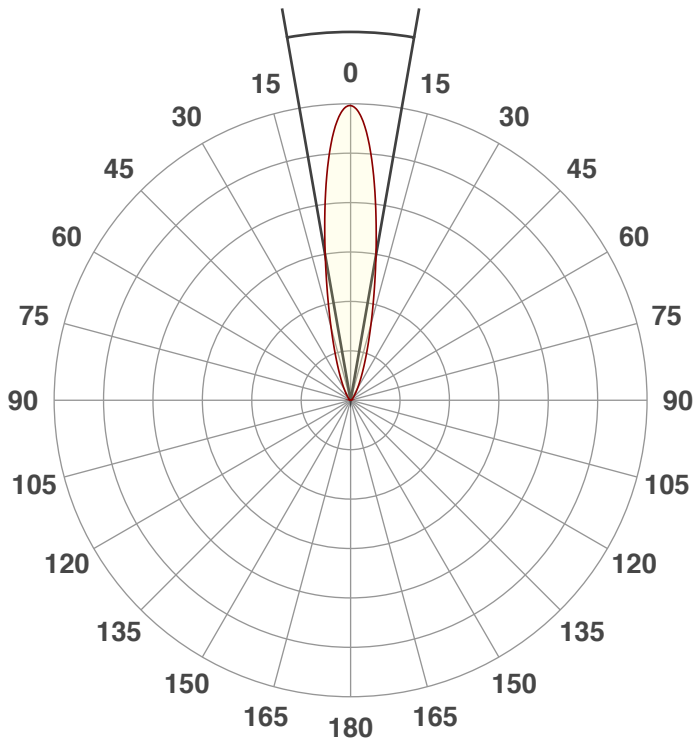
Power: 17.4 W

PF: 0.53



Beam Angle

19.9°



Test:

20Deg Amber

Date:

11/20/2018

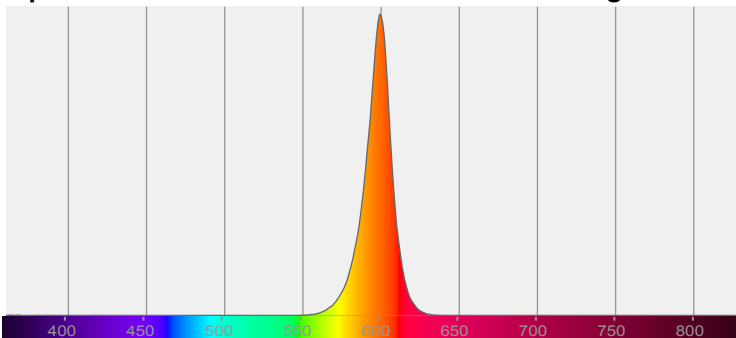
Note:



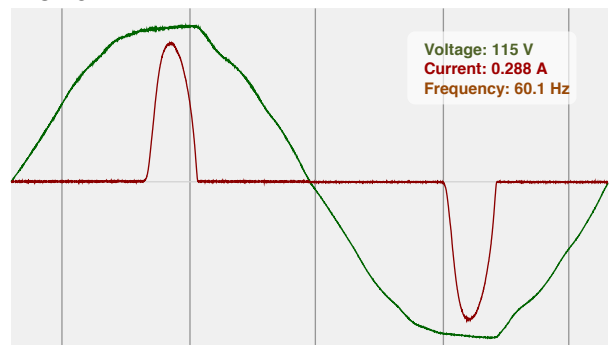
CIE 1931
x: 0.607
y: 0.393

Spectra

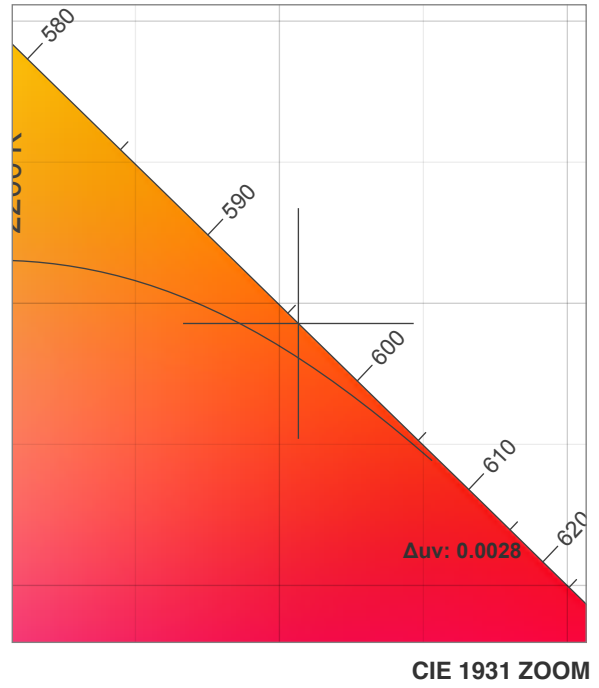
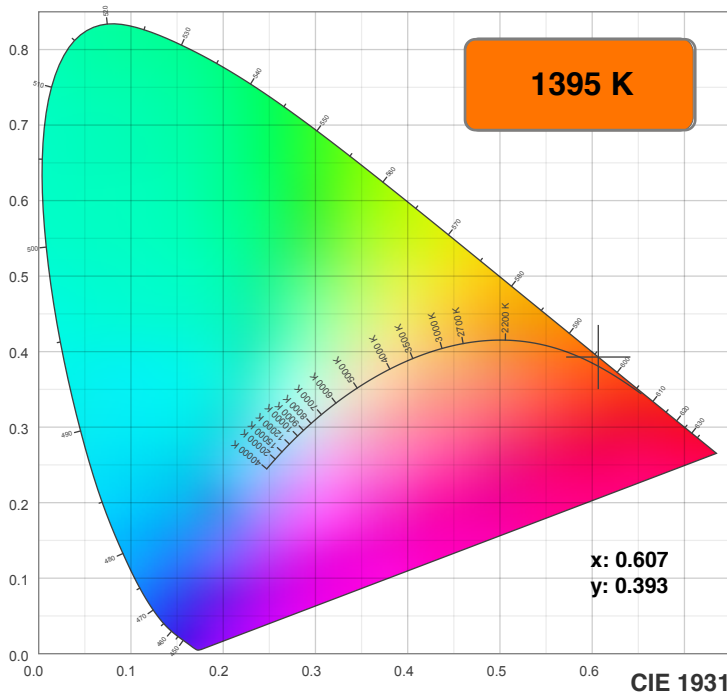
Dominant Wavelength: 596nm



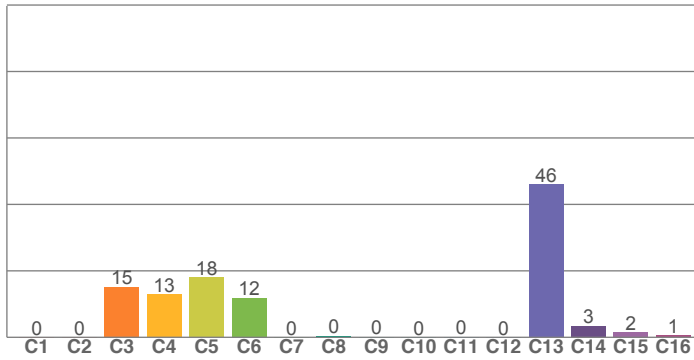
Power



Color Details



TM30: 0.4



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
-29.8	57.1	12.2	-67.0	-39.2	52.8	-10.3	-133.0	-367.9	39.1	-89.1	9.9	-9.4	43.8	-64.8

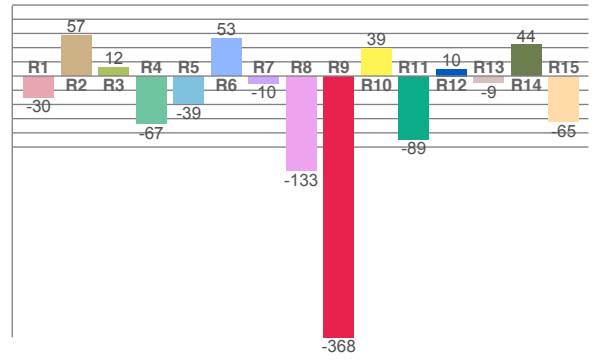
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
0.0	0.0	15.2	12.9	18.0	11.8	0.0	0.4	0.1	0.0	0.1	0.0	46.0	3.5	1.5	0.5

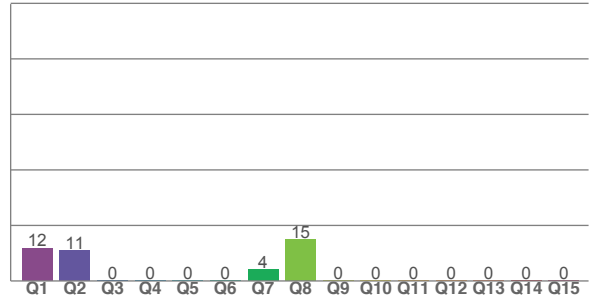
CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
11.7	10.9	0.0	0.0	0.0	0.2	4.0	14.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0

CRI: -19.7 (R1-R8)



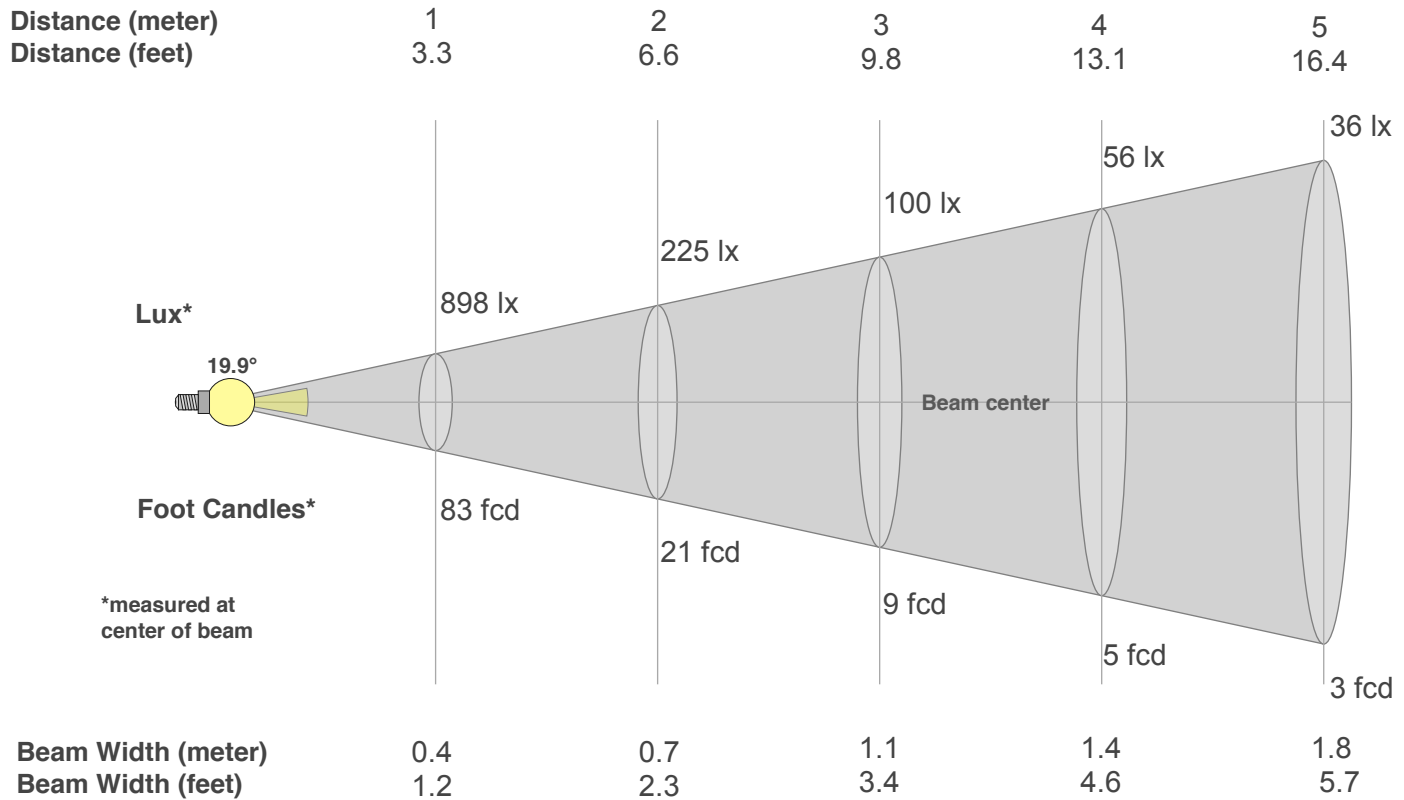
CQS: 0.0



Color Parameters

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut	Color Quality Scale	Color Coordinate CIE 1931	Color Coordinate CIE 1931	Color Coordinate	Color Coordinate	Color Deviation from Black Body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
1395 K	-19.7	-367.9	0.4	0.4	0.0	0.607	0.393	0.373	0.363	0.0028

Beam Details



Beam Intensities from 1-20m

m	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ft	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
lx	898	225	100	56	36	25	18	14	11	9	7	6	5	5	4	4	3	3	2	2
fcd	83.4	20.9	9.3	5.2	3.3	2.3	1.7	1.3	1	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.2

Intensities in 0° C-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
898	876	802	693	566	445	344	264	202	156	121	95	75	59	47	38	31	25	21	17
100%	97%	89%	77%	63%	50%	38%	29%	23%	17%	13%	11%	8%	7%	5%	4%	3%	3%	2%	2%

Intensities in 90° C-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
898	876	802	693	566	445	344	264	202	156	121	95	75	59	47	38	31	25	21	17
100%	97%	89%	77%	63%	50%	38%	29%	23%	17%	13%	11%	8%	7%	5%	4%	3%	3%	2%	2%

Intensities in 180° C-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
898	869	790	680	558	446	349	273	212	166	131	103	82	66	53	42	34	28	23	19
100%	97%	88%	76%	62%	50%	39%	30%	24%	19%	15%	11%	9%	7%	6%	5%	4%	3%	3%	2%

Intensities in 270° C-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
898	869	790	680	558	446	349	273	212	166	131	103	82	66	53	42	34	28	23	19
100%	97%	88%	76%	62%	50%	39%	30%	24%	19%	15%	11%	9%	7%	6%	5%	4%	3%	3%	2%

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
19.9°	45.6°	71.5°	98.6%	94.4%



Light efficiency:

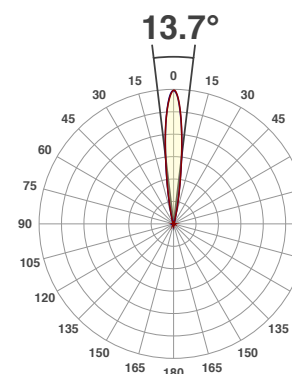
43 Lumen/Watt

Light quality:

CRI: 73.0

Color temperature:

7085 K



Product name:

MOD HEX100

Test:

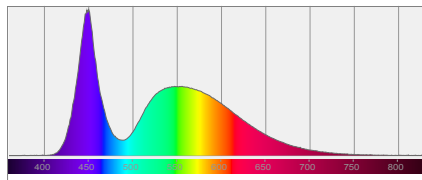
White

Date:

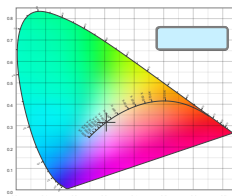
10/11/2017

Output: 920 lm Power consumption: 21.6 W Peak: 11135 cd

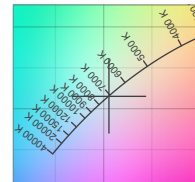
Spectral distribution



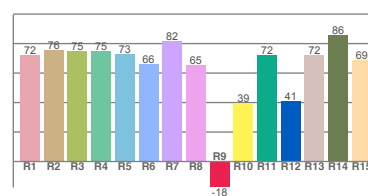
Color coordinates



Zoom color point

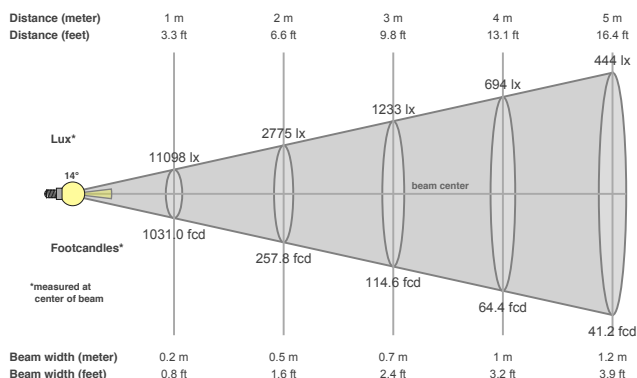


CRI R values



Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color divition from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
7085 K	73.0	-17.6	68.8	94.0	69.1	0.305	0.315	0.198	0.306	0.0035

Beam details



Beam angels

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%
13.7°	26°	41°

Beam intensities

Peak intensity	Int. ratio in 120° cone	Int. ratio in 90° cone
11135 cd	97.6%	96.3%

Power

Power	Power factor	Power frequency
21.6 W	0.53	59.9 Hz

Nominal voltage	Voltage	Current
230 V	115 V	0.352 A

Beam intensities from 1-20m

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
11098lx	2775lx	1233lx	694lx	444lx	308lx	226lx	173lx	137lx	111lx	92lx	77lx	66lx	57lx	49lx	43lx	38lx	34lx	31lx	28lx
1031fcd	257.8fcd	114.6fcd	64.4fcd	41.2fcd	28.6fcd	21fcd	16.1fcd	12.7fcd	10.3fcd	8.5fcd	7.2fcd	6.1fcd	5.3fcd	4.6fcd	4fcd	3.6fcd	3.2fcd	2.9fcd	2.6fcd



Light efficiency:

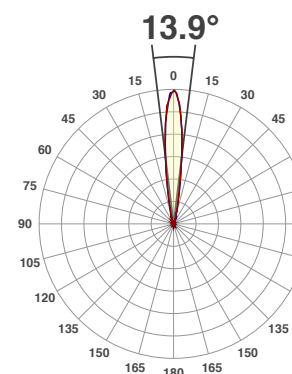
1 Lumen/Watt

Light quality:

CRI: 0.0

Color temperature:

0 K



Product name:
MOD HEX100

Test:

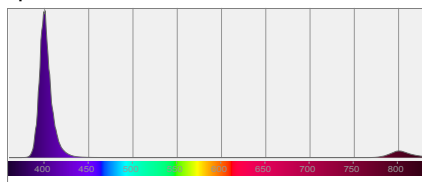
UV

Date:

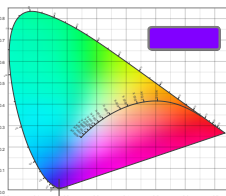
10/11/2017

Output: 24.8 lm Power consumption: 23.7 W Peak: 165 cd

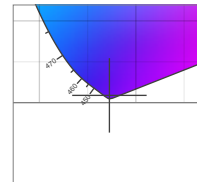
Spectral distribution



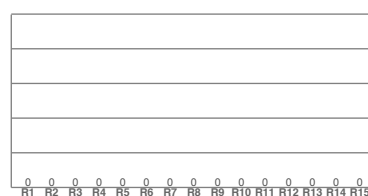
Color coordinates



Zoom color point

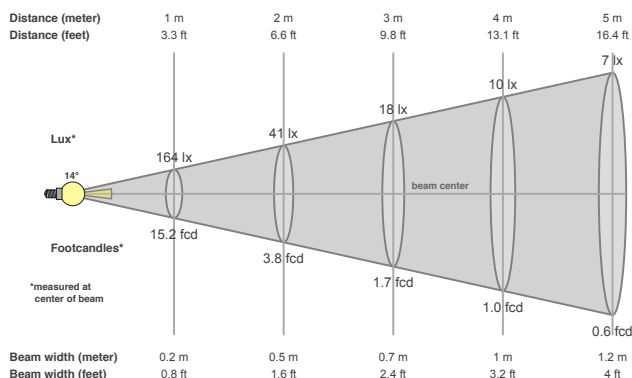


CRI R values



Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color divition from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
0 K	0.0	0.0	0.0	0.0	0.0	0.173	0.009	0.250	0.019	n/a

Beam details



Beam angles

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%
13.9°	27°	45.3°

Beam intensities

Peak intensity	Int. ratio in 120° cone	Int. ratio in 90° cone
165 cd	65.6%	60.6%

Power

Power	Power factor	Power frequency
23.7 W	0.54	60 Hz

Nominal voltage	Voltage	Current
230 V	114 V	0.383 A

Beam intensities from 1-20m

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
164lx	41lx	18lx	10lx	7lx	5lx	3lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx
15.2fcd	3.8fcd	1.7fcd	1fcd	0.6fcd	0.4fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd