

Date:	Project:
Prepared by:	Type:
Comments:	

MR16 VERSION 5

MR16 (V5)



DESCRIPTION

• Delivering 500 lumens with only 7 watts, this highly energy efficient lamp is fully dimmable, and is Version 5 of Arani's MR16 lamp, the current best in a long history of continuous research and development.

APPLICATION

• Designed with a universal MR16 fitting, this lamp is versatile in its applications, and can be used for ambient lighting, work lighting, or any colour sensitive setting (CRI = 91.5).

SPECIFICATIONS

Certifications

- Energy Star
- cULs
- CE
- RoHS

Color consistency

- Excellent color consistency
- No flickering
- Noise free

Finish

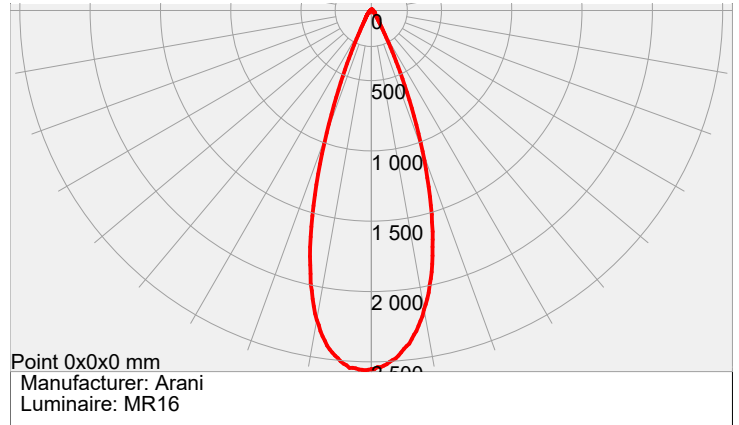
- Aluminum
- White

Operating Temperatures

-25°C to 40°C

Dimensions

Ø51 x 43mm

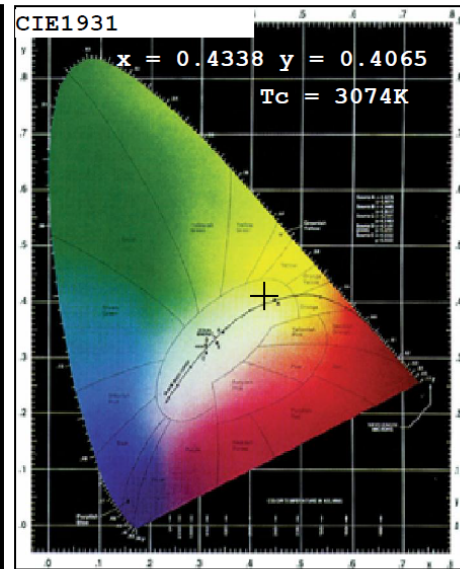
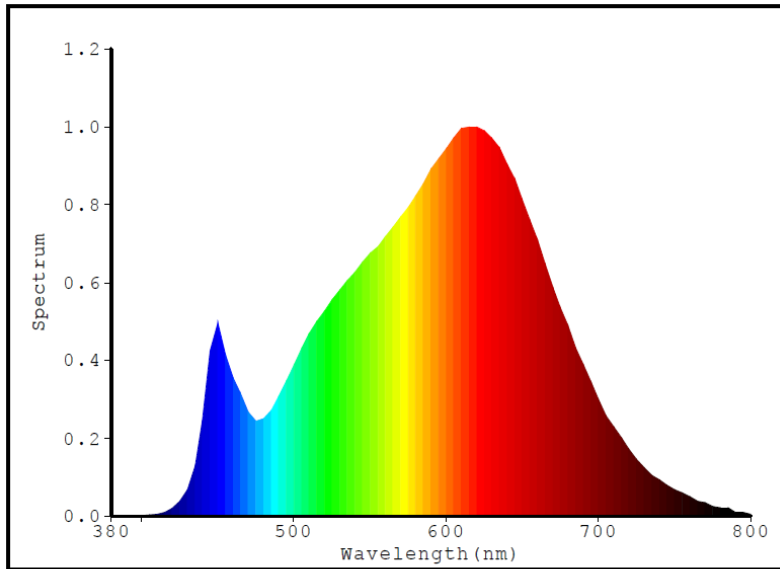


PERFORMANCE

Model Number	Power (Watts)	Lumens	Dimensions	Color Temp.	Input Voltage	Beam Angle	CRI
BMR16-30K-V5	7	500	Ø51 x 43mm	3000K	12V	40°	91.5
BMR16-40K-V5	7	500	Ø51 x 43mm	4000K	12V	40°	91.5

WAVELENGTH SPECTRUM

BMR16-30K-V5



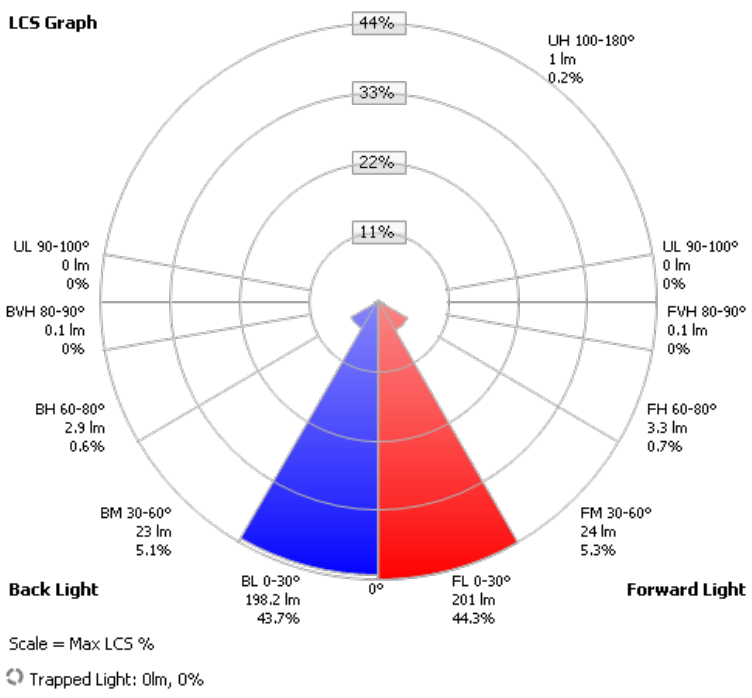
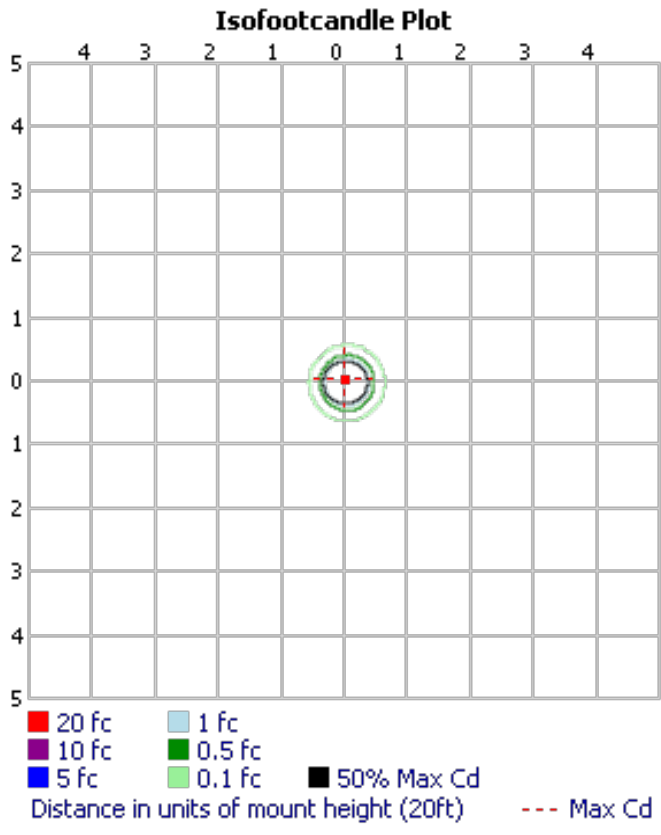
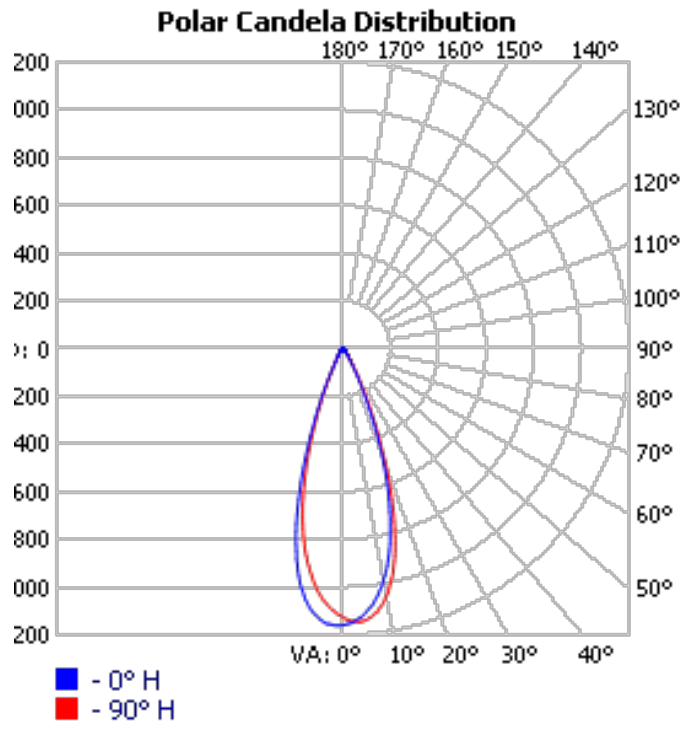
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RENDERING INDEX

Rating type	BMR16-30K-V5
CRI	91.5
R1	91
R2	95
R3	98
R4	92
R5	91
R6	94
R7	92
R8	80
R9	53
R10	87
R11	92
R12	79
R13	92
R14	98
R15	87

PHOTOMETRIC REPORT

MR16 (V5)



PHOTOMETRIC REPORT

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	399.0	87.9%	87.9%
0-40	424.3	93.5%	93.5%
0-60	446.1	98.3%	98.3%
60-90	6.5	1.4%	1.4%
70-100	2.2	0.5%	0.5%
90-120	0.1	0%	0%
0-90	452.6	99.8%	99.8%
90-180	1.0	0.2%	0.2%
0-180	453.7	100%	100%

LUMENS PER ZONE

ZONE	LUMENS	% TOTAL	ZONE	LUMENS	% TOTAL
0-10	101.3	22.3%	90-100	0.0	0%
10-20	200.9	44.3%	100-110	0.0	0%
20-30	96.8	21.3%	110-120	0.0	0%
30-40	25.3	5.6%	120-130	0.0	0%
40-50	13.7	3.0%	130-140	0.1	0%
50-60	8.1	1.8%	140-150	0.1	0%
60-70	4.4	1.0%	150-160	0.2	0%
70-80	1.9	0.4%	160-170	0.3	0.1%
80-90	0.3	0.1%	170-180	0.1	0%

ROADWAY SUMMARY

CUTOFF CLASSIFICATION:	CUTOFF	
DISTRIBUTION:	TYPE I, VERY SHORT	
MAX CD, 90 DEG VERT:	0.2	
MAX CD, 80 TO <90 DEG:	1.6	
	LUMENS	% LAMP
DOWNWARD STREET SIDE:	228.4	50.4%
DOWNWARD HOUSE SIDE:	224.3	49.4%
DOWNWARD TOTAL:	452.7	99.8%
UPWARD STREET SIDE:	0.5	0.1%
UPWARD HOUSE SIDE:	0.5	0.1%
UPWARD TOTAL:	1.0	0.2%
TOTAL LUMENS:	453.7	100%

LCS TABLE

BUG RATING	B1 - U1 - G0	
FORWARD LIGHT	LUMENS	LUMENS %
LOW(0-30):	201.0	44.3%
MEDIUM(30-60):	24.0	5.3%
HIGH(60-80):	3.3	0.7%
VERY HIGH(80-90):	0.1	0%
BACK LIGHT		
LOW(0-30):	198.2	43.7%
MEDIUM(30-60):	23.0	5.1%
HIGH(60-80):	2.9	0.6%
VERY HIGH(80-90):	0.1	0%
UPLIGHT		
LOW(90-100):	0.0	0%
HIGH(100-180):	1.0	0.2%
TRAPPED LIGHT:	0	0%

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PHOTOMETRIC REPORT

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CANDELA TABLE - TYPE C									
	0	45	90	135	180	225	270	315	360
0	1158	1137	1127	1124	1158	1137	1127	1124	1158
5	1108	1121	1140	1143	1136	1074	1044	1045	1108
10	980	1024	1051	1061	1014	920	884	887	980
15	765	823	844	845	757	671	646	653	765
20	484	535	535	527	421	366	368	378	484
25	221	252	249	234	170	147	156	159	221
30	82	90	95	86	65	58	62	62	82
35	39	41	43	39	35	32	34	34	39
40	26	26	27	25	25	23	23	23	26
45	19	18	19	18	18	17	16	17	19
50	14	13	13	12	13	11	12	12	14
55	8	10	9	8	9	7	9	9	8
60	7	6	6	6	7	5	6	7	7
65	5	4	4	4	5	3	5	5	5
70	4	3	2	2	4	2	3	4	4
75	1	3	1	1	3	1	3	3	1
80	0	0	0	0	2	0	1	2	0
85	0	0	0	0	1	0	1	1	0
90	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	1	0	0
130	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	1	0	0
145	0	0	1	0	1	0	1	0	0
150	0	0	0	0	0	0	1	0	0
155	0	0	0	0	0	0	2	0	0
160	0	1	2	0	1	1	1	1	0
165	1	1	2	1	1	1	2	1	1
170	3	1	2	1	1	1	1	1	3
175	3	1	3	1	1	1	1	1	3
180	3	1	3	1	3	3	1	1	3

PRODUCT IMAGES



MR16 (V5)