

SPECIFICATION SHEET

SUBJECT

BLACKSTAR CIR. LED HIGH BAY

CUSTOMER PROJECT

Project: _____

Type: _____

Cat. No.: _____

Qty: _____

Date: _____

EEL Rep: _____



Telephone: 905 415 8878 Fax Number: 905 415 8872 Toll Free Telephone: 855 415 8878 Toll Free Fax: 855 415 8872

DESCRIPTION

Our BLACKSTAR Original series has the familiarity of a traditional circular high bay luminaire, but it's beneath its solid black, cold forged housing lies its true power. Exceptional thermal transfer drastically extends component life - when paired with 6kV surge protection, this workhorse excels in indoor industrial, commercial, and indoor spaces. Whether a warehouse, gymnasium, or shopping mall, the BLACKSTAR Original series is a reliable choice and wet location suitable.

SPECIFICATION FEATURES

Construction

- Cold forged, anti-corrosive high purity 1060 aluminium housing
- 10 ft cable included
- Carbon steel with electrophoresis coating mounting ring

Shielding

- PC (Polycarbonate) lens (standard and frosted)

Mounting

- Suspension mount
 - Yoke mount
- (fixture can be mounted as close as possible to the ceiling surface, except for direct contact)

Finish

- Black finish

Beam Angle

- Standard 120°
- Optional 70° with PC Reflector
- 90° with Aluminum Reflector

Compliance

- IP65
- cUL
- The basic standard used to investigate products that are UL 1598 ("Luminaires") certified, also conforms to CSA-C22.2 No. 250.0 ("Luminaires").

Warranty

- 5-Year Warranty (Standard)
- 10-Year Limited Warranty (Optional)



**CIRCULAR
LED HIGH BAY
BLACKSTAR**
circular high bay

CHB SERIES

Circular High Bay

Wattage(s) 100W, 150W, 250W

Voltage 120-277V, 200-480V

Dimmable 1-10V

CCT 4000K & 5000K

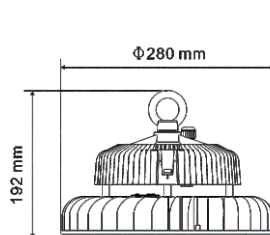
CRI >70

Efficacy 150lm/W

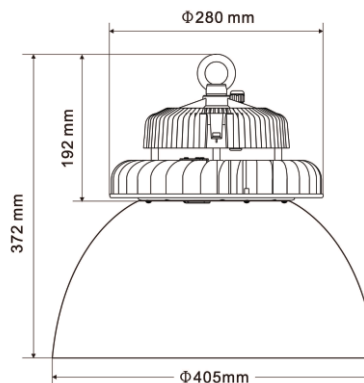
Lumen Maintenance Theoretical L70 > 420,000h
Lumen maintenance at 36,000 hrs = 95.6%

Operating Temperature -40°C to 50°C

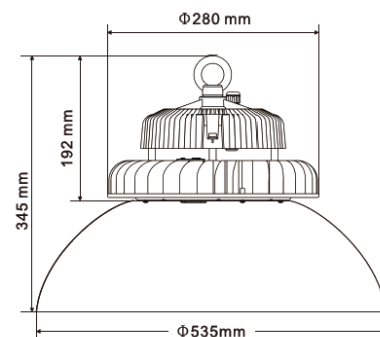
Inherent Surge Protection 6kV



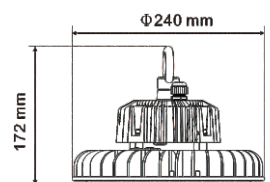
CHB-250LED / CHB-150LED
Dimensions
mm | 280(Ø) x 192(H)
inch | 11(Ø) x 7.6(H)



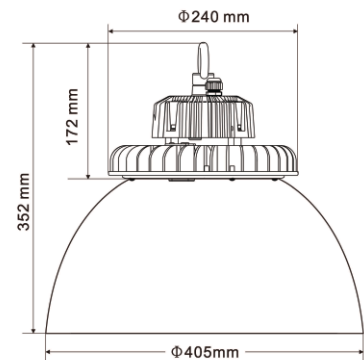
CHB-250LED / CHB-150LED
with 70° PC reflector
Dimensions
mm | 405(Ø) x 372(H)
inch | 15.9(Ø) x 14.6(H)



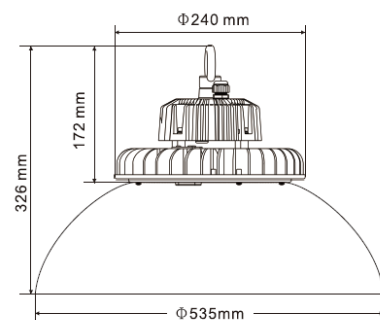
CHB-250LED / CHB-150LED
with 90° Aluminum reflector
Dimensions
mm | 535(Ø) x 345(H)
inch | 21(Ø) x 13.6(H)



CHB-100LED
Dimensions
mm | 240(Ø) x 172(H)
inch | 9.5(Ø) x 6.8(H)

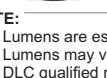


CHB-100LED with 70° PC reflector
Dimensions
mm | 405(Ø) x 352(H)
inch | 15.9(Ø) x 13.9(H)



CHB-100LED with 90° Aluminum reflector
Dimensions
mm | 535(Ø) x 326(H)
inch | 21(Ø) x 12.8(H)

ORDERING CODE, ENERGY AND PERFORMANCE DATA

	Model No.	Delivered Lumens (lm)	Input Watts (W)	Voltage (V)	Colour Temp. (K)	Efficacy (lm/W)	Certification
	CHB-250LED50K-347-D	35216	240	200-480	5000K	147	
	CHB-250LED40K-347-D	35013	240	200-480	4000K	146	
	CHB-150LED50K-347-D	21927	151	200-480	5000K	145	
	CHB-150LED40K-347-D	21782	151	200-480	4000K	144	
	CHB-100LED50K-347-D	15131	101	200-480	5000K	150	
	CHB-100LED40K-347-D	14735	100	200-480	4000K	147	
	CHB-250LED50K-120M-D	34555	241	100-277	5000K	143	
	CHB-250LED40K-120M-D	34074	241	100-277	4000K	142	
	CHB-150LED50K-120M-D	21727	154	100-277	5000K	141	
	CHB-150LED40K-120M-D	21340	154	100-277	4000K	138	
	CHB-100LED50K-120M-D	14599	99	100-277	5000K	147	
	CHB-100LED40K-120M-D	14164	98	100-277	4000K	144	

NOTE:

- Lumens are estimated
- Lumens may vary based on lens option
- DLC qualified may not apply to all versions within a model. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

OPTIONAL ACCESSORIES

CHB-PCR | 70° PC Reflector for CHB
 CHB-ALUR | 90° Aluminum Reflector for CHB
 CHB-ALUR (V2) | 90° Aluminum Reflector for CHB (Version 2)
 CHB-FROSTEDLENS | Frosted lens for CHB
 CHB-WG | Wireguard for CHB
 CHB-CBC | Clear Bottom Cap for PC Reflector
 CHB-PMAM12 | Piping Mount Adaptor for CHB 150W & 250W
 CHB-PMAM10 | Piping Mount Adaptor for CHB 100W
 CHB-CABLE CONNECTOR | Cable Connector for CHB
 CHB-MOUNT BRACKET KIT (L) | Mount Bracket Kit for CHB 150W & 250W (Large) **(Not Sold Separately, must be pre-installed)**
 CHB-MOUNT BRACKET KIT (S) | Mount Bracket Kit for CHB 100W (Small) **(Not Sold Separately)**

CONTROLS (OPTIONAL)

SMR5052 | 609V RC Microwave Motion Sensor
 SMR4032 | 054V RC Microwave Motion Sensor
 ULT-HC419S & CHBSBC | On-Off Sensor Control 120-277V & Sensor Bracket Cover
 WATERPROOF5HJBOX | Waterproof Junction Box with Bracket for Wiring (5 Holes)
 EMP-P4035 | Emergency Battery Pack for CHB type fixtures (CHB 100W & 150W - 120V Only)

OPTIONAL ACCESSORIES



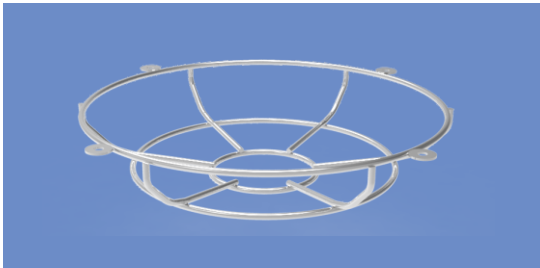
CHB-PCR | 70° PC Reflector for CHB



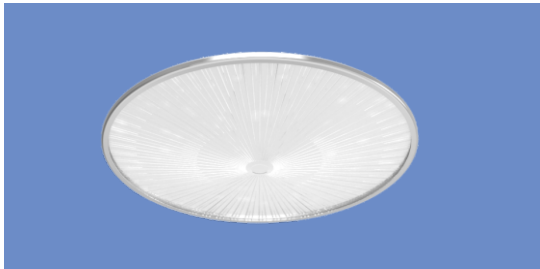
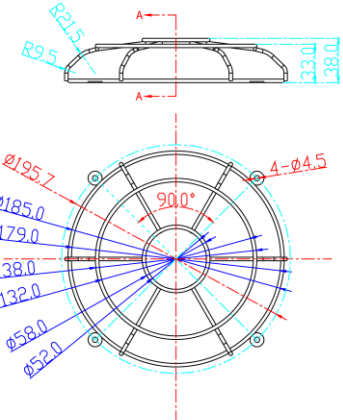
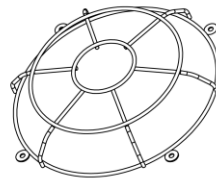
CHB-ALUR | 90° Aluminum Reflector for CHB



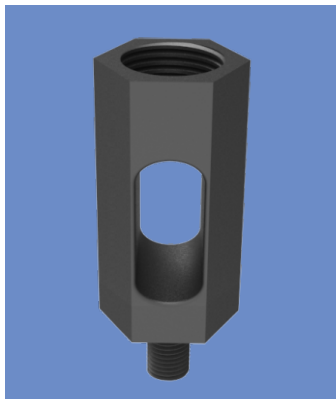
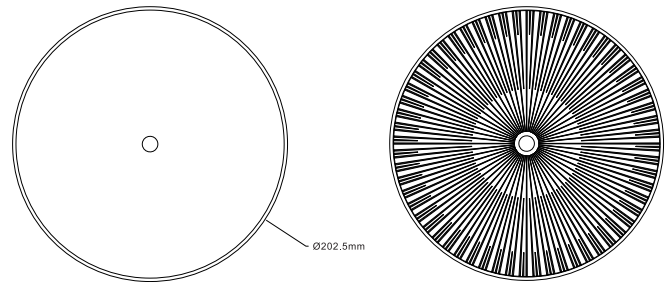
CHB-ALUR (V2) | 90° Aluminum Reflector for CHB (Version 2)



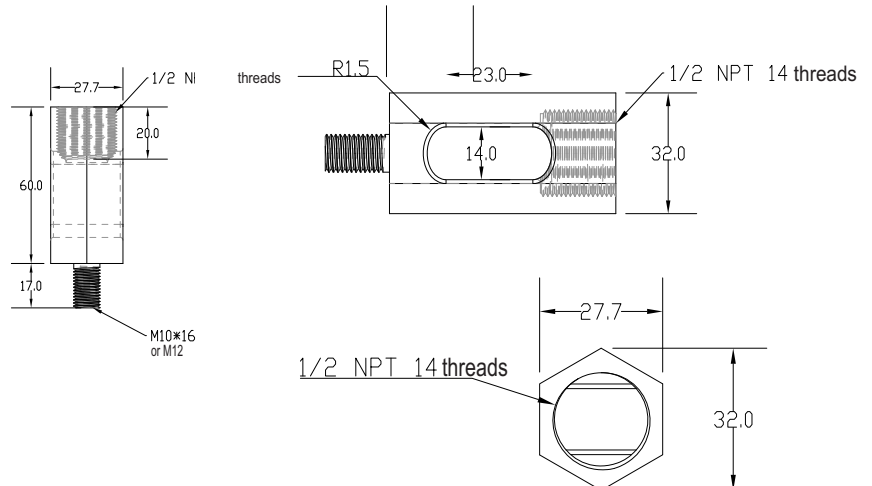
CHB-WG | Wireguard for CHB



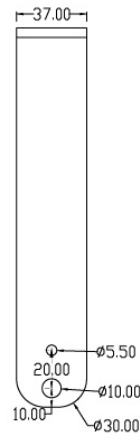
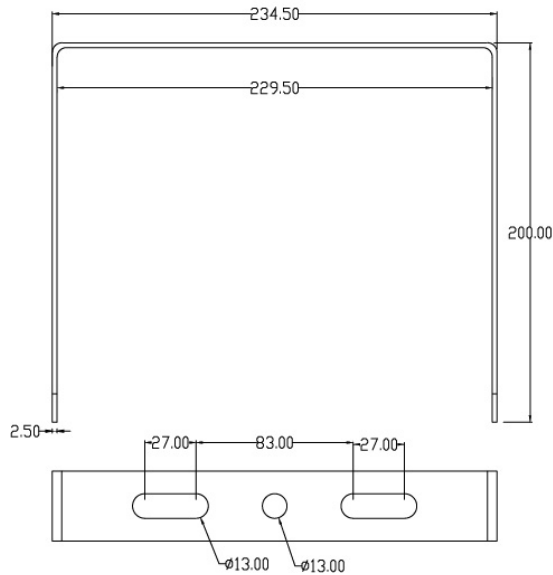
CHB-CBC | Clear Bottom Cap for CHB PC Reflector



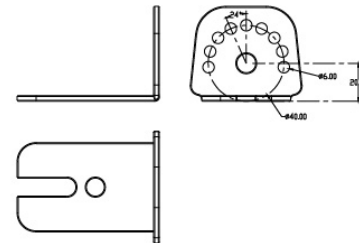
CHB-PMAM12 / CHB-PMAM10
Piping Mount Adaptor for CHB



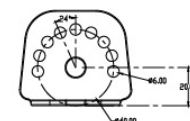
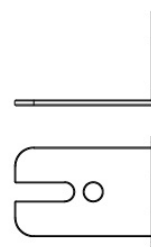
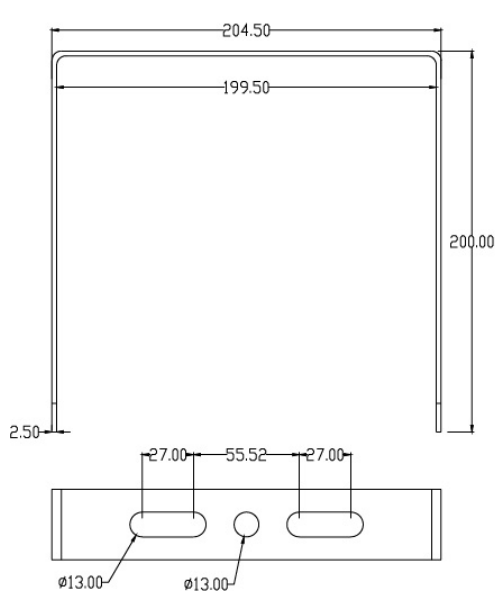
MOUNTING ACCESSORIES



CHB-MOUNT BRACKET KIT

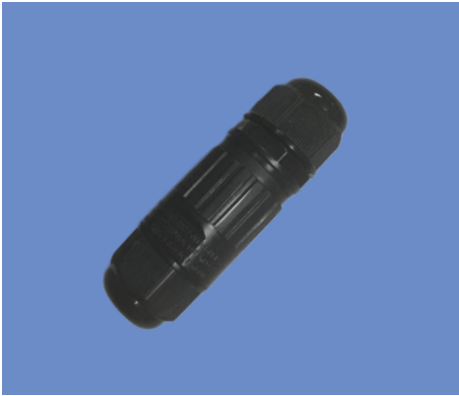


CHB-MOUNT BRACKET KIT (L) | Mount Bracket Kit for CHB 150W & 250W (Large)

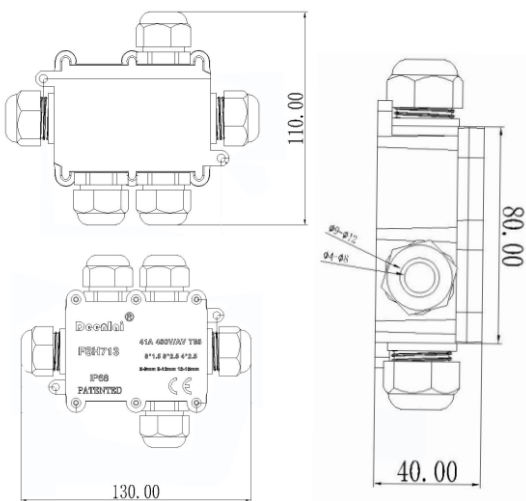
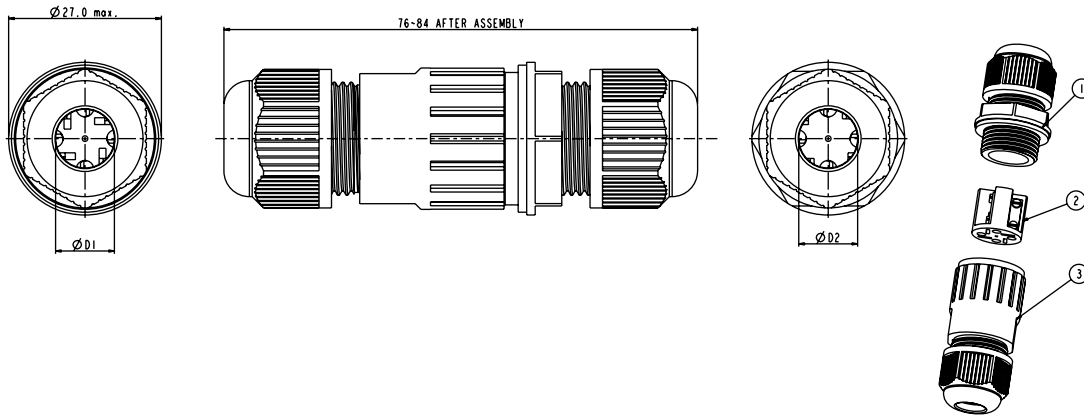


CHB-MOUNT BRACKET KIT (S) | Mount Bracket Kit for CHB 100W (Small)

MOUNTING ACCESSORIES



CHB-CABLE CONNECTOR | Cable Connector for CHB



WATERPROOF5HJBOX | Waterproof Junction Box



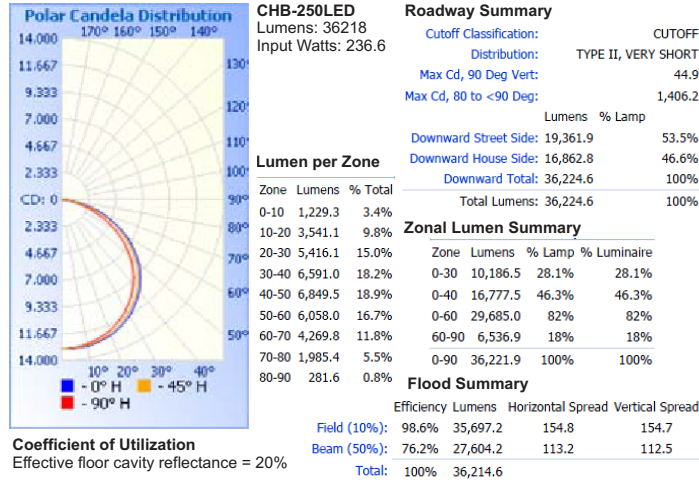
SMR4032 & SMR5052 | IP65 Microwave Motion Sensor 120-277V & Motion Sensor Device

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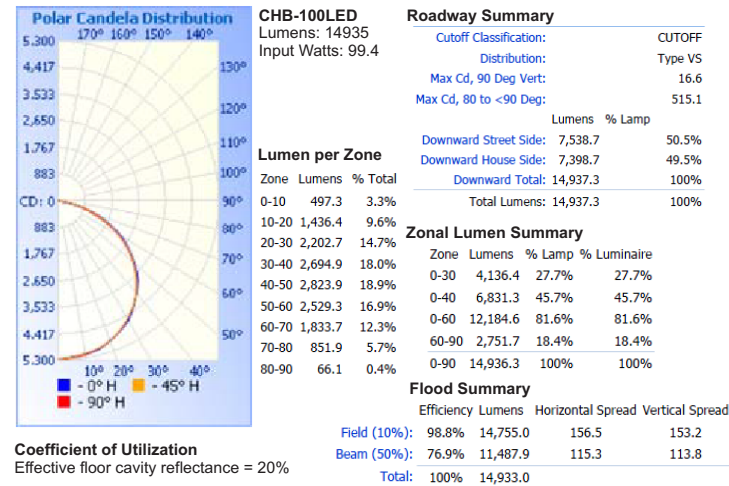
PHOTOMETRICS

Disclaimer: Photometric data result was obtained under clear lens condition.



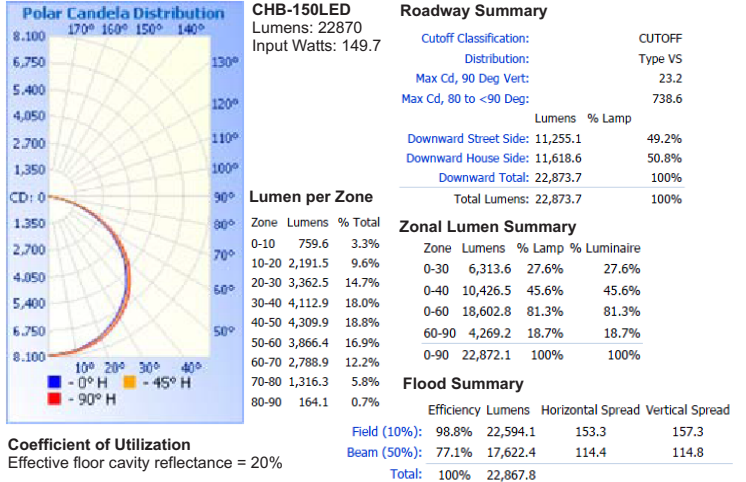
RCC %:	80				70				50				30				10				0
RW %:	70	50	30	0	70	50	30	0	50	30	20	10	0	50	30	20	10	0	0		
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00			
1	1.09	1.05	1.01	.97	1.07	1.03	.99	.86	.98	.95	.93	.95	.92	.90	.91	.89	.87	.85			
2	1.00	.92	.85	.80	.97	.90	.84	.73	.86	.81	.77	.83	.79	.75	.80	.77	.74	.71			
3	.91	.81	.73	.66	.89	.79	.72	.62	.76	.70	.65	.73	.68	.64	.71	.66	.62	.60			
4	.83	.72	.63	.56	.81	.70	.62	.53	.68	.61	.55	.65	.59	.54	.63	.58	.54	.52			
5	.77	.64	.55	.49	.75	.63	.55	.46	.61	.53	.48	.59	.52	.47	.57	.51	.47	.45			
6	.71	.58	.49	.42	.69	.57	.48	.41	.55	.47	.42	.53	.46	.41	.52	.46	.41	.39			
7	.66	.52	.43	.37	.64	.51	.43	.36	.50	.42	.37	.48	.42	.37	.47	.41	.36	.34			
8	.61	.48	.39	.33	.59	.47	.39	.32	.46	.38	.33	.44	.38	.33	.43	.37	.33	.31			
9	.57	.44	.35	.30	.56	.43	.35	.29	.42	.35	.30	.41	.34	.30	.40	.34	.29	.28			
10	.53	.40	.32	.27	.52	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.27	.25			

Disclaimer: Photometric data result was obtained under clear lens condition.



RCC %:	80				70				50				30				10				0
RW %:	70	50	30	0	70	50	30	0	70	50	30	0	70	50	30	0	70	50	30	0	
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00	1.00	1.00	
1	1.09	1.05	1.01	.97	1.07	1.03	.99	.86	.98	.95	.93	.95	.92	.90	.91	.89	.87	.85	.83	.80	
2	1.00	.92	.85	.80	.97	.90	.84	.73	.86	.81	.77	.83	.79	.75	.80	.77	.73	.71	.68	.66	
3	.91	.81	.73	.66	.88	.79	.72	.62	.76	.70	.64	.73	.68	.63	.71	.66	.62	.60	.58	.56	
4	.83	.71	.63	.56	.81	.70	.62	.53	.68	.60	.55	.65	.59	.54	.63	.58	.53	.51	.49	.47	
5	.76	.64	.55	.48	.74	.63	.54	.46	.60	.53	.47	.58	.52	.47	.57	.51	.46	.44	.42	.40	
6	.71	.57	.48	.42	.69	.56	.48	.41	.55	.47	.41	.53	.46	.41	.51	.45	.41	.39	.37	.35	
7	.65	.52	.43	.37	.64	.51	.43	.36	.50	.42	.37	.48	.41	.36	.47	.41	.36	.34	.32	.30	
8	.61	.47	.39	.33	.59	.47	.39	.32	.45	.38	.33	.44	.37	.32	.43	.37	.32	.30	.28	.26	
9	.57	.43	.35	.30	.55	.43	.35	.29	.42	.34	.29	.41	.34	.29	.40	.34	.29	.27	.25	.23	
10	.53	.40	.32	.27	.52	.39	.32	.26	.38	.31	.27	.38	.31	.27	.37	.31	.26	.25	.23	.21	

Disclaimer: Photometric data result was obtained under clear lens condition.



RCC %:	80				70				50				30				10				0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0			
RCC: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00			
1	1.09	1.05	1.01	.97	1.07	1.03	.99	.86	.98	.95	.92	.94	.92	.90	.91	.89	.87	.85			
2	1.00	.92	.85	.79	.97	.90	.84	.72	.86	.81	.77	.83	.79	.75	.80	.76	.73	.71			
3	.91	.80	.72	.66	.88	.79	.71	.62	.76	.70	.64	.73	.68	.63	.71	.66	.62	.60			
4	.83	.71	.63	.56	.81	.70	.62	.53	.67	.60	.55	.65	.59	.54	.63	.58	.53	.51			
5	.76	.64	.55	.48	.74	.62	.54	.46	.60	.53	.47	.58	.52	.47	.57	.51	.46	.44			
6	.70	.57	.48	.42	.69	.56	.48	.40	.54	.47	.41	.53	.46	.41	.51	.45	.41	.39			
7	.65	.52	.43	.37	.64	.51	.43	.36	.49	.42	.37	.48	.41	.36	.47	.41	.36	.34			
8	.61	.47	.39	.33	.59	.47	.38	.32	.45	.38	.33	.44	.37	.32	.43	.37	.32	.30			
9	.57	.43	.35	.30	.55	.43	.35	.29	.42	.34	.29	.40	.34	.29	.39	.33	.29	.27			
10	.53	.40	.32	.27	.52	.39	.32	.26	.38	.31	.27	.37	.31	.26	.37	.31	.26	.25			