



LED

6" Open Trim

Recessed

New Construction and Remodel

Wet Location

Type _____

P8071	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
	-20STR*	-20/35KSTR*	-28STR	-28/35KSTR	-31STR*	-31/35KSTR*	-36STR*	-36/35KSTR*	-121STR*	-121/35KSTR*

Finish

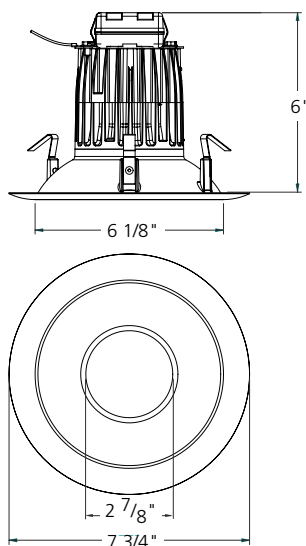
Catalog No	Antique Bronze	White	Black	Chestnut	Metallic Silver	LED Color Temp
P8071	-20STR*	-28STR	-31STR*	-36STR*	-121STR*	2700K
P8071	-20/35KSTR*	-28/35KSTR	-31/35KSTR*	-36/35KSTR*	-121/35KSTR*	3500K

* Make to order only

Lamp Wattage Housing

	IC	Non-IC
P87-AT	15w	15w
P87-ATQC	15w	15w
P87-LED	15w	15w
P187-TG	15w	15w
P821-FB	15w	15w
Competitive Housings*	15w	15w

*See Trim Compatibility Guide



The P8071 is ideal for use in both new construction as well as remodel/retrofit applications. Light output is comparable to that of typical downlight lamps providing up to 75% energy savings. The P8071 is equipped with both an Edison base adapter and quick link allowing easy installation in many standard incandescent cans, and also affording compliance to California title 24 and IECC lighting power density (w/ft²) requirements when used with the P87-LED housing (purchased separately).

Specifications:

Trim Assembly

- Die cast heat sink to provide optimal thermal management of the LED board and maximize life expectancy and lumen output
- Die cast active upper cone to optically control LED beam spread
- Die cast passive lower cone with integral flange provides excellent glare control and optical cutoff
- Powder coated lower cone. -31 and -121 finishes include white painted trim flange
- Frosted polycarbonate lens controls direct glare from the LEDs
- Easy installation with (3) friction spring clips. Affixed safety tether for attachment to housing.
- No light leaks around trim flange
- In addition to the Progress P87-AT, P87-ATQC, P87-LED, P187-TG, the P8071 is also UL classified for use with 6" housings made by Capri, Commercial Electric, Halo, Intense, Juno, Lithonia, Nora and WAC. See ProgressLED trim compatibility guide for a complete list of classified housings.

Lamping

- 9 LED (Light Emitting Diode) lamps included
- 15-watt input power

- Lumen output: 691 lumens (3500K), 596 lumens (2700K) for -28 finish. Absolute photometry conducted per LM-79 for solid state luminaires
- Lumen output and distribution comparable to a 65w BR30 incandescent lamp
- CRI is 80+ rivaling CFL
- 50,000 hours life based on 70% lumen maintenance
- Lamp contains no mercury, meets Calif. Title 22
- Suitable for use in IC Applications with 25°C (77°F) continuous room side ambient temperature, or in Non-IC applications up to 35°C (95°F).

Electrical

- Class 2 driver, compliant to FCC 47CFR part 15 Class B, Class A noise rating, >0.90 Power Factor
- Trim comes with attached quick link for use with E26 Edison Base adapter whip (provided) or P8071-LED housing (purchased separately)
- Flicker-free dimming to 15% with most standard incandescent dimmers (See Dimming Notes)
- 120VAC input, 50/60Hz

Labels

- cULus classified for wet locations



**lighting
facts**

LED Product Partner

Progress Lighting
701 Millennium Blvd.
Greenville, South Carolina
29607

www.progresslighting.com

Rev. 4/12

6" 2700K with White Interior and Diffuse Polycarbonate Lens

Product Tested: P8071-28STR

Lumen Rating

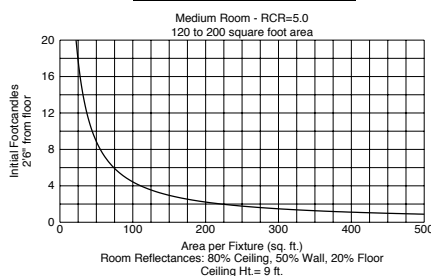
No. Lamps: 9

Total Lumens: 591

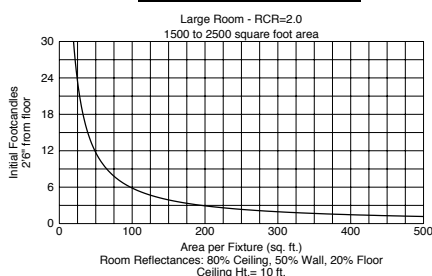
Type Lamp: LEDS

S/MH Ratio: 1.0 (0°)

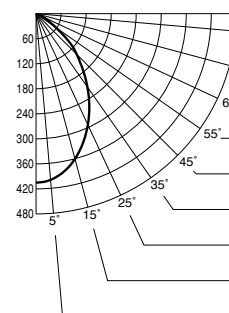
QUICK CALCULATOR CHARTS



QUICK CALCULATOR CHARTS



DISTRIBUTION CURVE



INTENSITY DATA

DEGREES	AT 0°	AT 90°
90	0	0
85	1	1
80	3	3
75	4	4
70	6	6
65	17	16
60	33	32
55	59	57
50	101	98
45	138	136
40	174	172
35	214	212
30	255	254
25	294	294
20	329	331
15	360	362
10	385	386
5	400	401
0	405	405

SINGLE FIXTURE DATA

Ceiling Ht.(Ft.)	10% Values Beam Angle - 94°		Zero Degrees	50% Values Beam Angle - 53°	
	Ft.-C	Beam Dia.		Ft.-C	Beam Dia.
8	1.3	12	13.4	6.7	5
10	0.7	16	7.2	3.6	7
12	0.4	20	4.5	2.2	9
14	0.3	24	3.1	1.5	11
16	0.2	29	2.2	1.1	13

Ft.-C (Footcandles) are initial and measured 2'-6" from floor

ZONAL CAVITY COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 0.20																								
		80				70				50				30				10				0		
RC	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
0		119	119	119	119	116	116	116	116	111	111	111	107	107	107	102	102	102	100	100	100	100	100	100
1		112	109	106	103	110	107	104	101	103	100	98	99	97	95	95	94	93	91	91	91	91	91	91
2		105	99	94	90	103	97	92	89	94	90	87	91	87	85	88	85	83	81	81	81	81	81	81
3		98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72	72	72	72	72	72
4		91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65	65	65	65	65	65
5		85	75	68	62	83	74	67	62	72	66	61	70	65	61	69	64	60	58	58	58	58	58	58
6		80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53	53	53	53	53	53
7		75	64	56	51	73	63	56	51	61	55	51	60	54	50	59	54	50	48	48	48	48	48	48
8		70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44	44	44	44	44	44
9		66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	41	41	41	41	41	41
10		62	51	44	39	61	50	44	39	50	43	39	49	43	39	48	43	39	37	37	37	37	37	37

6" 3500K with White Interior and Diffuse Polycarbonate Lens

Product Tested: P8071-28/35KSTR

Lumen Rating

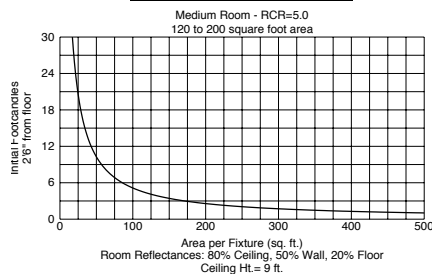
No. Lamps: 9

Total Lumens: 685

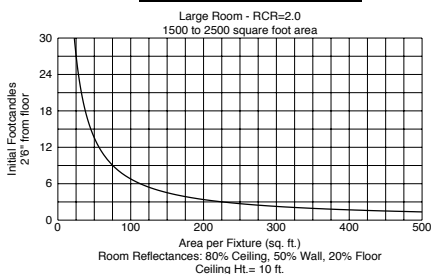
Type Lamp: LEDS

S/MH Ratio: 1.0 (0°)

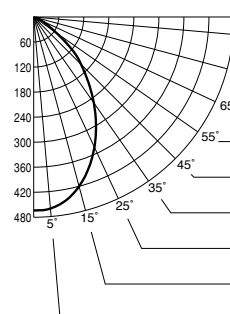
QUICK CALCULATOR CHARTS



QUICK CALCULATOR CHARTS



DISTRIBUTION CURVE



INTENSITY DATA

DEGREES	AT 0°	AT 90°
90	0	0
85	2	2
80	3	4
75	5	5
70	7	7
65	20	20
60	38	39
55	67	67
50	116	111
45	161	151
40	203	193
35	251	241
30	299	289
25	344	335
20	385	375
15	420	410
10	446	437
5	461	455
0	463	463

ZONAL CAVITY COEFFICIENTS OF UTILIZATION

Ceiling Ht.(Ft.)	10% Values Beam Angle - 93°		Zero Degrees	50% Values Beam Angle - 53°	
	Ft.-C	Beam Dia.		Ft.-C	Beam Dia.
8	1.5	12	15.3	7.7	6
10	0.8	16	8.2	4.1	8
12	0.5	20	5.1	2.6	10
14	0.4	24	3.5	1.8	12
16	0.3	29	2.5	1.3	14

Ft.-C (Footcandles) are initial and measured 2'-6" from floor

ZONAL CAVITY COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 0.20																								
RC	80				70				50				30				10				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50
0	119	119	119	119	116	116	116	116	111	111	111	107	107	107	102	102	102	100	100	100	100	100	100	100
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	90	90	90	90	90	90	90
2	105	99	94	89	102	97	92	88	94	90	86	90	87	84	88	85	83	81	81	81	81	81	81	81
3	98	90	83	78	96	88	82	78	85	81	77	83	79	75	80	77	74	72	72	72	72	72	72	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65	65	65	65	65	65	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58	58	58	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53	53	53	53	53	53	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48	48	48	48	48	48	48

DIMMING NOTES:

ProgressLED integral driver is compatible with existing 2-wire dimming circuits and is designed to operate with most standard dimmers including incandescent 120V line voltage (forward phase-leading edge) dimmers as well as 120V electronic low voltage (ELV) (reverse phase-trailing edge) dimmers. Dimming capabilities will vary depending upon the dimmer control used.

A 120V Electronic Low Voltage (ELV) dimmer can typically operate a single LED unit and are recommended for use with P807-1 Series.

Recommended Electronic Low Voltage Dimmers:

Lutron Nova T Series (Part number NTELV-600)
Lutron Faedra (Part Number FAELV-T00-XX)
Leviton Acenti (Part Number ACE06-XXX)
Leviton Vizia (Part Number VZE04)

Most incandescent line voltage dimmers have minimum load requirements of approximately 40W and may require multiple LED modules per control. (See dimmer control manufacturer's instructions for specific requirements.)

Recommended Incandescent Line Voltage Dimmers:

Leviton, Illumitech Series (Part Numbers IPI06-XXX)
Leviton, Trimatron Series (Part Numbers 6602-X, 6681-X, 6683-X, 6684-X, 700-X and 705-X)
Leviton, SureSlide Series (Part Numbers 6631)
Leviton, True Touch Series (Part Number 66061LM)
Lutron Skylark Series (Part Number S-600, S2-LH)
Cooper, Aspire Series (Part Numbers 9530XXX)

Digital dimmers are not compatible with Progress LED modules.

COMPATIBILITY OF 6" RECESSED HOUSINGS:

ProgressLED modules are cCULus classified for use with:

Progress	P187-TG, P87-AT, P821-FB, P87-LED		
Capri	CR1, CRR1	Lithonia	L7X
Commercial Electric	C71A(H3)	Lumapro	5TP95
Elco	EL7RICA, EL7ICA	Luminaire	LUICT-00
Emerald	P1-ICTN	Nora	NHIC-17QAT, NHRIC-17QNBAT
Halo	H7ICAT, H7RICAT	Sea Gull	1128
Intense	I6AIC, I6RAIC	WAC	R6VI-ICA, R6VI-R-ICA
Jimway	C7ICR(H2)		
Juno	IC22		

NOTES

1. Operation in ambient temperatures higher than those specified will shorten life.
2. SP is limited to repair and replacement of defective parts of the LED system and does not include labor or installation. 5 year warranty requires product registration. Contact Technical Support for details.