LEDVANCE LUMINAIRES
DOWNLIGHT RT DUAL SELECTABLE

LEDVANCE LUMINAIRE SPECIFICATION DATA

Catalog #	Comments
Project	
Type	
Prepared by	

PERFORMANCE CLASS™

LENS
Uniform, glare free illumination

HIGH PERFORMANCE
Up to 120LPW

UNIFORM LIGHT
85° Beam Angle

CUSTOMIZATION
Optional Field Installed Trim Rings

FLEXIBILITY
Selectable CCT:
2700/3000/3500/4000/5000K
Selectable Output:
3 Step Dimming

QUALITY LIGHT
CRI>90, R9>50

DIMMING
100-10% Phase-cut & 0-10V dimming in the same product

EMERGENCY BATTERY BACKUP READY
(Field installable) kit provides up to 2hr illumination

ENERGY EFFICIENT
IC & Air Tight rated

INSTALLATION
Max Ceiling Thickness: 1.97" (50mm)

CERTIFICATIONS & LISTINGS

- UL listed for US & Canada
- RoHS Compliant
- FCC Compliant
- Wet Location
- Certified airtight as per ASTM E283-04
- IC Rated for insulation contact
- IP44
- Title 24
- TAA Compliant
- Energy Star

AMBIENT OPERATING TEMPERATURE

- -4°F to 104°F (-20°C to 40°C)
- 32°F to 104°F (0°C to 40°C) with battery

ELECTRICAL

- Input voltage: 120-277V or 120-347V
- Surge Protection: 2.5 kV
- THD: <= 20%
- 16 inches of input wires
- Power Factor: >0.9 @120V, >0.7@277V or 347V

DESCRIPTION

The LEDVANCE Performance Class Downlight RT Dual Selectable luminaires are offered in 4", 6", 8" and 10" sizes and provide high performing light optimized for both new construction and retrofit applications where pin-based compact fluorescent lamps have previously been used. Easily fits in most standard frames and offers care-free universal 120V TRIAC/ELV Phase-cut or 0-10V dimming. The RT family is emergency battery back-up ready and can be customized with the optional color finish trims.

APPLICATION

- Commercial applications
- Office
- Public & commercial buildings
- New installations or retrofit of existing installations
- Schools
- Big Box Retail
- Hotels, shops, hospitality, residential interiors

RATED LIFE

- 100,000 hours (L70) @ 77°F/25°C

WARRANTY

- 5-Year Limited Warranty
- NLB Trusted Warranty Program

ORDERING GUIDE

RT	XX	SXXXX	XXX	D	9	XXX	WH
PRODUCT NAME	**SIZE**	**SELECTABLE LUMENS**	**VOLTAGE**	**DIMMING**	**CRI**	**COLOR TEMP**	**FINISH**
RT = LED Downlight	4 = 4" 6 = 6" 8 = 8" 10 = 10"	S900 = 500/700/900lm S1000 = 600/800/1000lm S1500 = 900/1200/1500lm S2500 = 1000/1800/2500lm S3500 = 1800/2700/3500lm S4500 = 2800/3500/4500lm	UNV = 120-277V UNH = 120-347V	D = TRIAC / ELV / 0-10V	9 = >90, R9>50	SC3 = Selectable 2700, 3000, 3500, 4000 or 5000K	WH = White

ORDERING INFORMATION

ITEM #	ORDERING ABBREVIATION	WATTAGE (W)	INPUT VOLTAGE (V)	CCT (K)	TOTAL LUMENS (LM)	LPW	FINISH
67685	RT4S1000UNVD9SC3WH	6/8/10	120-277	2700/3000/3500/4000/5000	600/800/1000	100	WH
67686	RT6S900UNVD9SC3WH	5/7/9	120-277	2700/3000/3500/4000/5000	500/700/900	100	WH
67687	RT6S2500UNVD9SC3WH	10/17/21	120-277	2700/3000/3500/4000/5000	1000/1800/2500	119	WH
67688	RT8S1500UNVD9SC3WH	9/12/15	120-277	2700/3000/3500/4000/5000	900/1200/1500	100	WH
67689	RT8S3500UNVD9SC3WH	16/24/30	120-277	2700/3000/3500/4000/5000	1800/2700/3500	117	WH
67690	RT10S4500UNVD9SC3WH	24/30/37	120-277	2700/3000/3500/4000/5000	2800/3500/4500	122	WH
67691	RT4S1000UNHD9SC3WH	6/8/10	120-347	2700/3000/3500/4000/5000	600/800/1000	100	WH
67692	RT6S2500UNHD9SC3WH	10/17/21	120-347	2700/3000/3500/4000/5000	1000/1800/2500	119	WH
67693	RT8S3500UNHD9SC3WH	16/24/30	120-347	2700/3000/3500/4000/5000	1800/2700/3500	117	WH

PHYSICAL INFORMATION

DESCRIPTION	DIAMETER	HEIGHT	WEIGHT
RT4S1000UNVD9SC3WH	5.51in (140mm)	3.72in (94.5mm)	0.86lb (0.39kg)
RT6S900UNVD9SC3WH	7.36in (187mm)	4.08in (103.6mm)	1.08lm (0.49kg)
RT6S2500UNVD9SC3WH	7.36in (187mm)	4.08in (103.6mm)	1.08lm (0.49kg)
RT8S1500UNVD9SC3WH	9.45in (240mm)	4.45in (113mm)	1.37lb (0.62kg)
RT8S3500UNVD9SC3WH	9.45in (240mm)	4.45in (113mm)	1.37lb (0.62kg)
RT10S4500UNVD9SC3WH	11.26in (286mm)	4.45in (113mm)	1.61lb (0.73kg)
RT4S1000UNHD9SC3WH	5.51in (140mm)	3.72in (94.5mm)	0.86lb (0.39kg)
RT6S2500UNHD9SC3WH	7.36in (187mm)	4.08in (103.6mm)	1.08lm (0.49kg)
RT8S3500UNHD9SC3WH	9.45in (240mm)	4.45in (113mm)	1.37lb (0.62kg)

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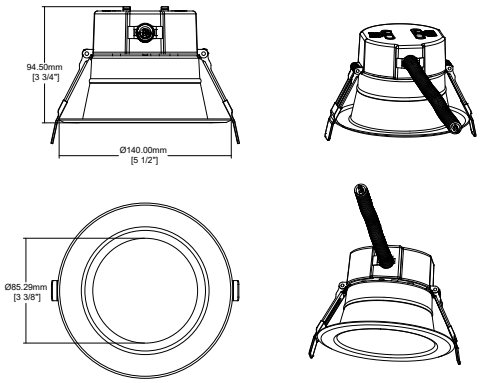

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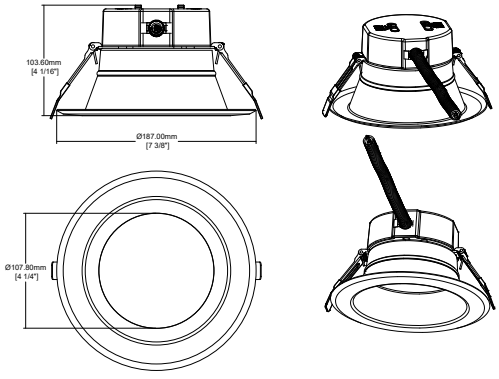

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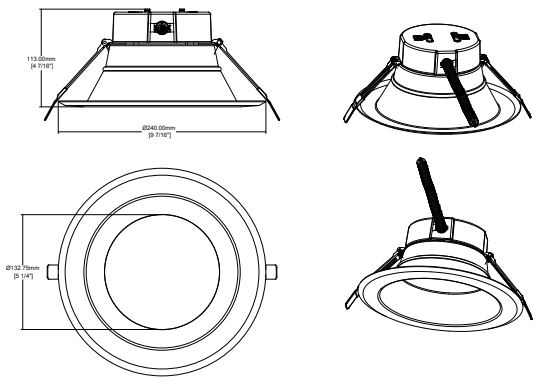

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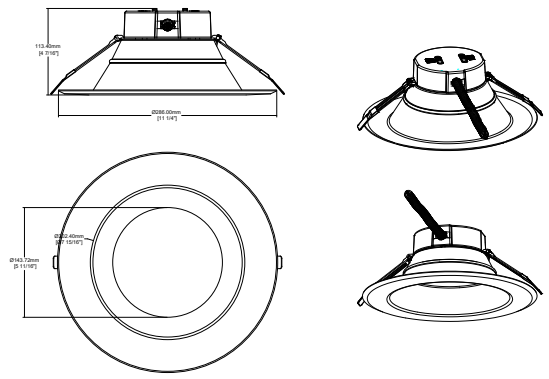


OPTIONAL ACCESSORIES

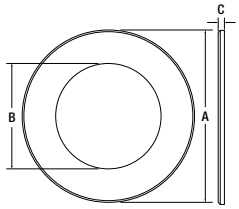
ITEM #	ORDERING ABBREVIATION	PRODUCT DESCRIPTION	
	TRIM RINGS		
67426	RT4TRIMSSWH	4" Semi-Specular Trim Ring White Flange	
67427	RT6TRIMSSWH	6" Semi-Specular Trim Ring White Flange	
67428	RT8TRIMSSWH	8" Semi-Specular Trim Ring White Flange	
67429	RT10TRIMSSWH	10" Semi-Specular Trim Ring White Flange	
65710	RT4TRIM5ADKBZ	4" Dark Bronze Trim Ring	
65711	RT4TRIM5ASN	4" Satin Nickel Trim Ring	
65712	RT4TRIM5ABLK	4" Black Trim Ring	
65713	RT6TRIM5ADKBZ	6" Dark Bronze Trim Ring	
65714	RT6TRIM5ASN	6" Satin Nickel Trim Ring	
65715	RT6TRIM5ABLK	6" Black Trim Ring	
65716	RT8TRIM5ADKBZ	8" Dark Bronze Trim Ring	
65717	RT8TRIM5ASN	8" Satin Nickel Trim Ring	
65718	RT8TRIM5ABLK	8" Black Trim Ring	
65719	RT10TRIM5ADKBZ	10" Dark Bronze Trim Ring	
65720	RT10TRIM5ASN	10" Satin Nickel Trim Ring	
65721	RT10TRIM5ABLK	10" Black Trim Ring	

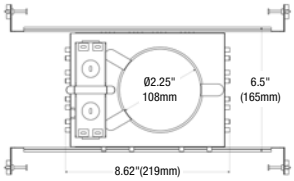
OPTIONAL ACCESSORIES (CONTINUED)

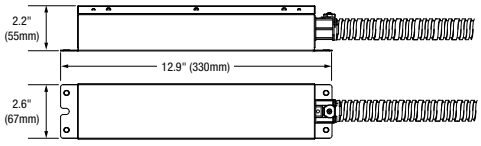
ITEM #	ORDERING ABBREVIATION	PRODUCT DESCRIPTION	
	TRIM RING EXTENDERS		
62788	RT685ATRIMEXT	6-8" Trim Ring Extender (Goof Ring) for 8" cans	
62789	RT8105ATRIMEXT	8-10" Trim Ring Extender (Goof Ring) for 10" cans	
62790	RT8125ATRIMEXT	8-12" Trim Ring Extender (Goof Ring) for 12" cans	
62791	RT10125ATRIMEXT	10-12" Trim Ring Extender (Goof Ring) for 12" cans	
	EMERGENCY BATTERY BACK-UP		
62367	EMBB2A8WUNVDC	100-277V 2A 8W Emergency Battery Back-up 90min.	
62368	EMBB2A8WUNHDC	100-347V 2A 8W Emergency Battery Back-up 90min.	
	RECESSED ROUGH-IN FRAME		
63883	LEDRT4FRAME	4" Recessed rough-in frame with Junction Box (RT4)	
71708	LEDRT6HOFRAME	6" Recessed rough-in frame with Junction Box (RT6)	
71709	LEDRT8FRAME	8" Recessed rough-in frame with Junction Box (RT8/10)	

TRIM RING EXTENDER DIMENSIONS

DESCRIPTION	OUTER DIAMETER (A)	INNER DIAMETER B)	THICKNESS (C)
62788	9.44in (240.00mm)	5.44 (138.73mm)	0.375in (9.50mm)
62789	11.44in (290.80mm)	7.125 (180.75mm)	0.438in (10.50mm)
62790	13.44in (341.60mm)	7.125 (180.75mm)	0.438in (10.80mm)
62366	13.44in (341.60mm)	8.125 (205.83mm)	0.438in (10.80mm)







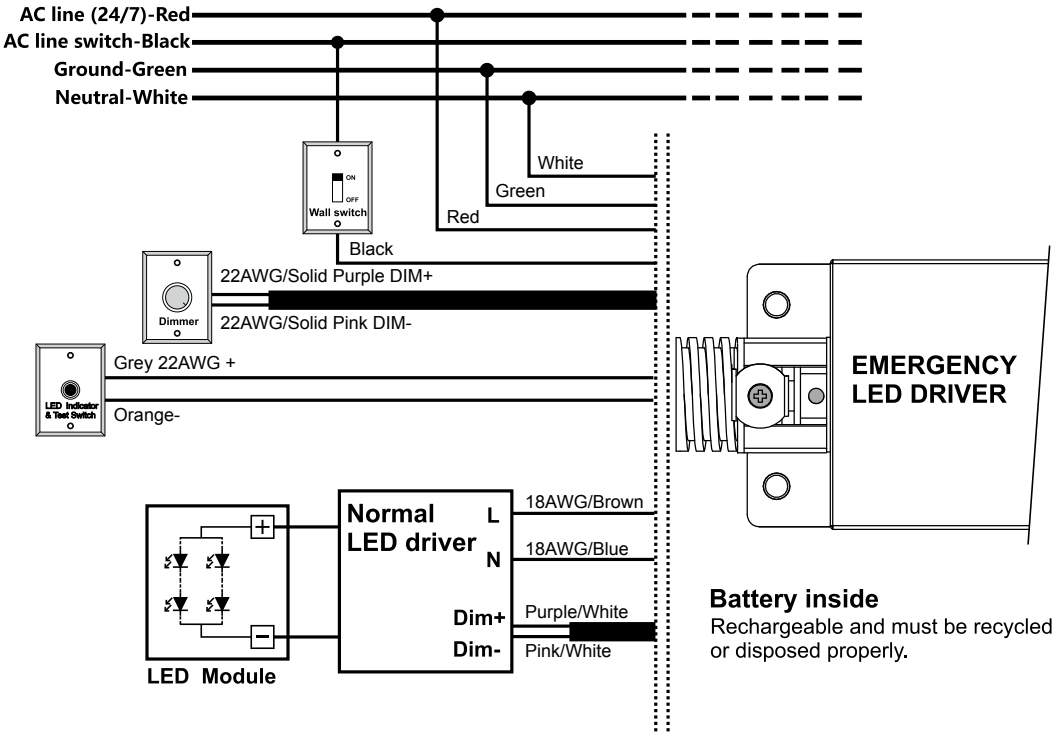
EMBB COMPATIBILITY

ITEM #	ORDERING ABBREVIATION	EMBB ITEM #	EMBB DESCRIPTION	EMBB WATTAGE (W)†	EM LUMENS (LM)†
67685	RT4S1000UNVD9SC3WH	62367 / 62368	EMBB2A8WUNVDC / EMBB2A8WUNHDC	10	960*
67686	RT6S900UNVD9SC3WH	62367 / 62368	EMBB2A8WUNVDC / EMBB2A8WUNHDC	9	870**
67687	RT6S2500UNVD9SC3WH	62367 / 62368	EMBB2A8WUNVDC / EMBB2A8WUNHDC	16	1940
67688	RT8S1500UNVD9SC3WH	62367 / 62368	EMBB2A8WUNVDC / EMBB2A8WUNHDC	14	1350
67689	RT8S3500UNVD9SC3WH	62367 / 62368	EMBB2A8WUNVDC / EMBB2A8WUNHDC	16	1850
67690	RT10S4500UNVD9SC3WH	62367 / 62368	EMBB2A8WUNVDC / EMBB2A8WUNHDC	16	1940
67691	RT4S1000UNHD9SC3WH	62368	EMBB2A8WUNHDC	10	960*
67692	RT6S2500UNHD9SC3WH	62368	EMBB2A8WUNHDC	16	1940
67693	RT8S3500UNHD9SC3WH	62368	EMBB2A8WUNHDC	16	1850

† At the highest wattage. *Not compatible with 6W (lowest) setting. **Not compatible with 5W (lowest) setting

EMBB WIRING DIAGRAM

Wiring diagram



Battery inside
Rechargeable and must be recycled or disposed properly.

DIMMER COMPATIBILITY

MAKE	DIMMER TYPE	MODEL
PHASECUT DIMMERS		
Leviton SureSlide	L	6674
Lutron Maestro C-L	L	MACL-153M
Lutron Diva	L	DVCL-153P
Lutron Caseta*	L	PD-6WCL*
Lutron Diva	T	DVELV-300P
Lutron Maestro	T	MAELV-600
0-10V DIMMERS		
Leviton	0-10V	DS710
Leviton	0-10V	IP710
Lutron	0-10V	NTSTV-DV
Lutron	0-10V	DVTV
Lutron	0-10V	DVSTV
Legrand	0-10V	H4FBL3PW

*Not compatible with 67685 & 67686

WATTAGE COMPARISON

TRADITIONAL SOURCE	TRADITIONAL LAMP ORIENTATION	TRADITIONAL SYSTEM WATTAGE	LED SYSTEM WATTAGE	ENERGY SAVINGS
4" Twin Tube	13W Vertical	15W	6W	60%
4" Twin Tube	18W Vertical	20W	7W	65%
4" Twin Tube	26W Vertical	28W	8W	71%
4" Triple Tube	18W Vertical	20W	9W	55%
4" Triple Tube	26W Vertical	28W	10W	64%
6" Triple Tube	18W Vertical	20W	7W	65%
6" Triple Tube	26W Vertical	28W	9W	68%
6" Triple Tube	32W Vertical	34W	10W	71%
6" Triple Tube	42W Vertical	48W	17W	65%
6" Double Tube	13W Vertical	15W	5W	67%
6" Double Tube	18W Vertical	20W	7W	65%
6" Double Tube	26W Vertical	28W	9W	68%
6" Double Tube	13W Horizontal	15W	5W	67%
6" Double Tube	18W Horizontal	20W	7W	65%
6" Double Tube	26W Horizontal	28W	9W	68%
6" Double Tube	2×13W Horizontal	28W	5W	75%
8" Triple Tube	26W Vertical	28W	12W	57%
8" Triple Tube	32W Vertical	34W	9W	74%
8" Triple Tube	42W Vertical	48W	15W	69%
8" Triple Tube	2×26W Horizontal	54W	16W	70%
8" Triple Tube	2×32W Horizontal	68W	24W	65%
8" Triple Tube	42W Horizontal	48W	15W	69%
8" Triple Tube	2×42W Horizontal	100W	30W	70%
8" Double Tube	2×13W Horizontal	28W	9W	68%
8" Double Tube	2×18W Horizontal	38W	12W	68%
8" Double Tube	2×26W Horizontal	54W	16W	70%

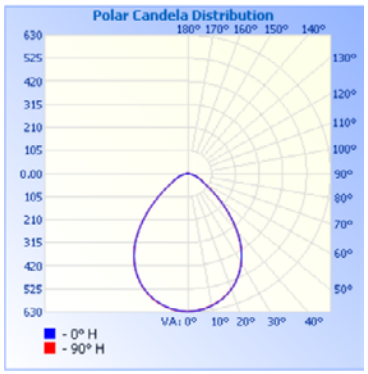
INSTALLATION

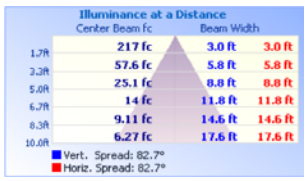
- Recessed Ceiling Mount
- Optional Frame in Kits for new Construction Applications

INSTALLATION GUIDE

PHOTOMETRIC INFORMATION

RT4S1000UNVD9SC3WH (2700K)

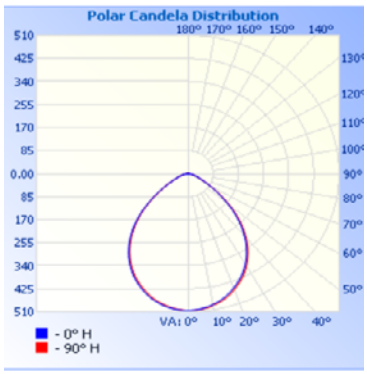


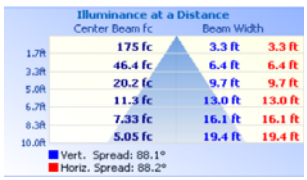


Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	463.5	41.4%
0-40	717.6	64%
0-60	1,023.5	91.3%
60-90	97.4	8.7%
70-100	38.6	3.4%
90-120	0.003	0%
0-90	1,121.0	100%
90-180	0.0	0%
0-180	1,121.0	100%

RT6S900UNVD9SC3WH (5000K)

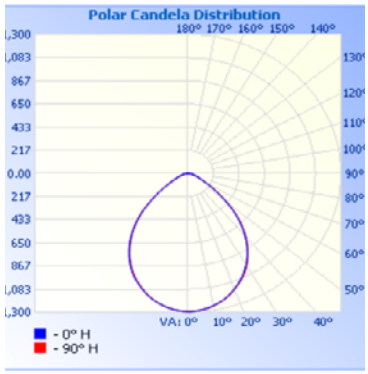


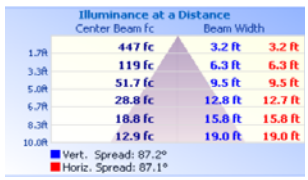


Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	375.6	38.9%
0-40	591.5	61.2%
0-60	893.1	92.4%
60-90	72.9	7.6%
70-100	24.0	2.5%
90-120	0.000	0%
0-90	966.1	100%
90-180	0.000	0%
0-180	966.1	100%

RT6S2500UNVD9SC3WH (2700K)

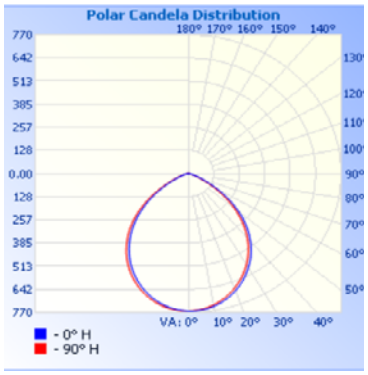


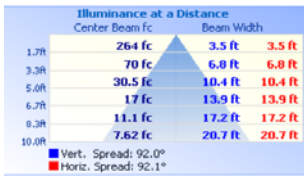


Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	956.2	39.6%
0-40	1,501.3	62.2%
0-60	2,230.6	92.4%
60-90	184.6	7.6%
70-100	69.2	2.9%
90-120	0.0	0%
0-90	2,415.2	100%
90-180	0.1	0%
0-180	2,415.2	100%

RT8S1500UNVD9SC3WH (5000K)

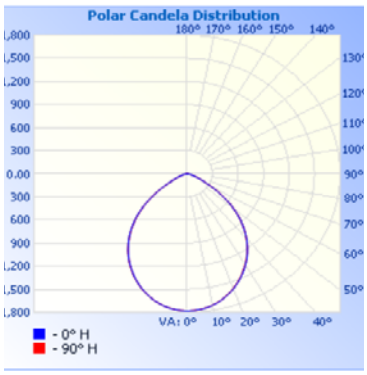


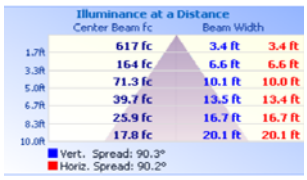


Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	568.3	36.9%
0-40	901.7	58.5%
0-60	1,416.6	91.9%
60-90	125.5	8.1%
70-100	35.4	2.3%
90-120	0.005	0%
0-90	1,542.1	100%
90-180	0.005	0%
0-180	1,542.1	100%

RT8S3500UNVD9SC3WH (2700K)

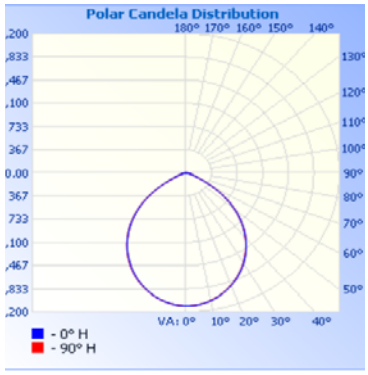


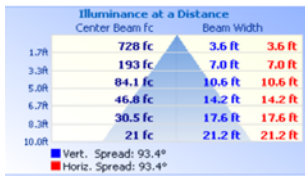


Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1,316.2	38%
0-40	2,078.0	59.9%
0-60	3,211.3	92.6%
60-90	255.2	7.4%
70-100	82.4	2.4%
90-120	0.0	0%
0-90	3,466.5	100%
90-180	0.0	0%
0-180	3,466.5	100%

RT10S4500UNVD9SC3WH (2700K)

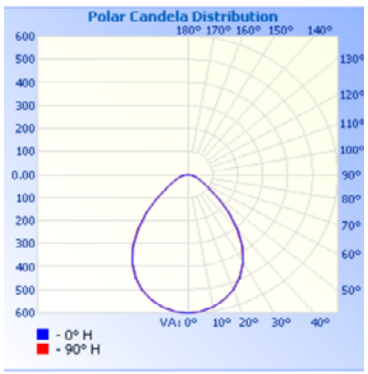




Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1,567.2	36.5%
0-40	2,492.0	58.1%
0-60	3,956.9	92.3%
60-90	331.4	7.7%
70-100	94.3	2.2%
90-120	0.0	0%
0-90	4,288.3	100%
90-180	0.1	0%
0-180	4,288.3	100%

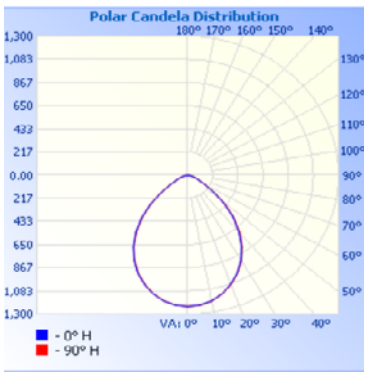
RT4S1000UNHD9SC3WH (2700K)

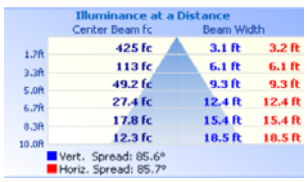


Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	439.4	42.1%
0-40	675.4	64.8%
0-60	953.4	91.4%
60-90	89.3	8.6%
0-90	1,042.7	100%

RT6S2500UNHD9SC3WH (5000K)

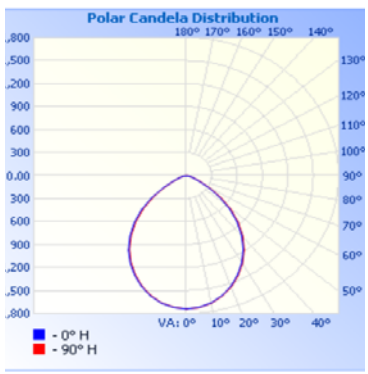


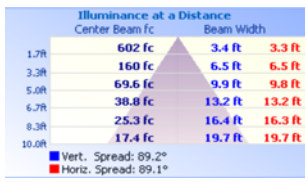


Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	902.2	40%
0-40	1,407.5	62.4%
0-60	2,082.1	92.3%
60-90	174.5	7.7%
0-90	2,256.6	100%

RT8S3500UNHD9SC3WH (2700K)



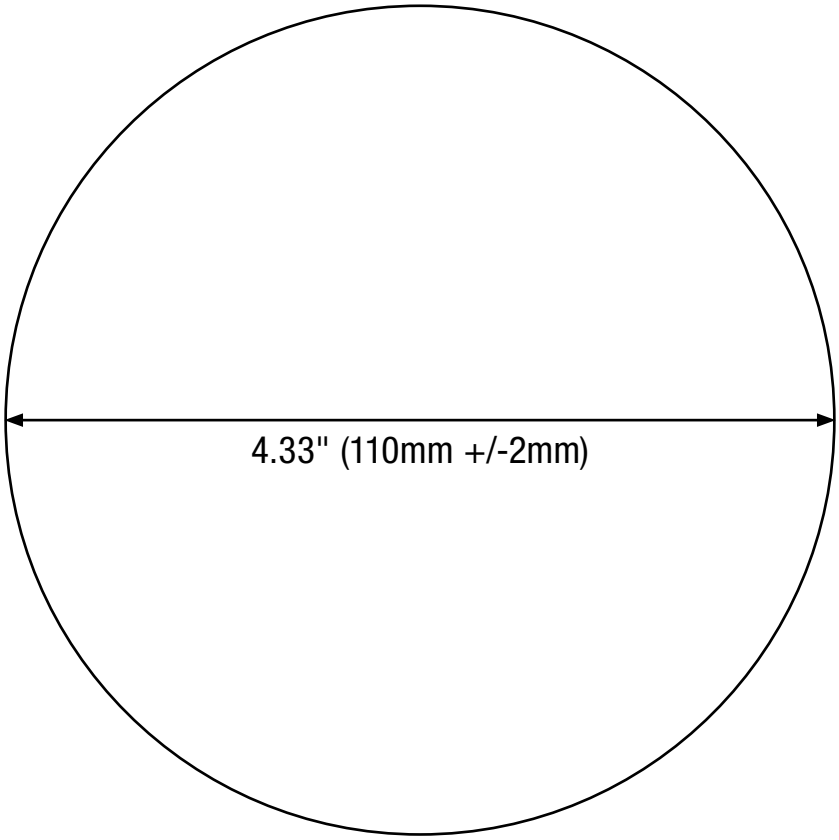


Zonal Lumen Summary

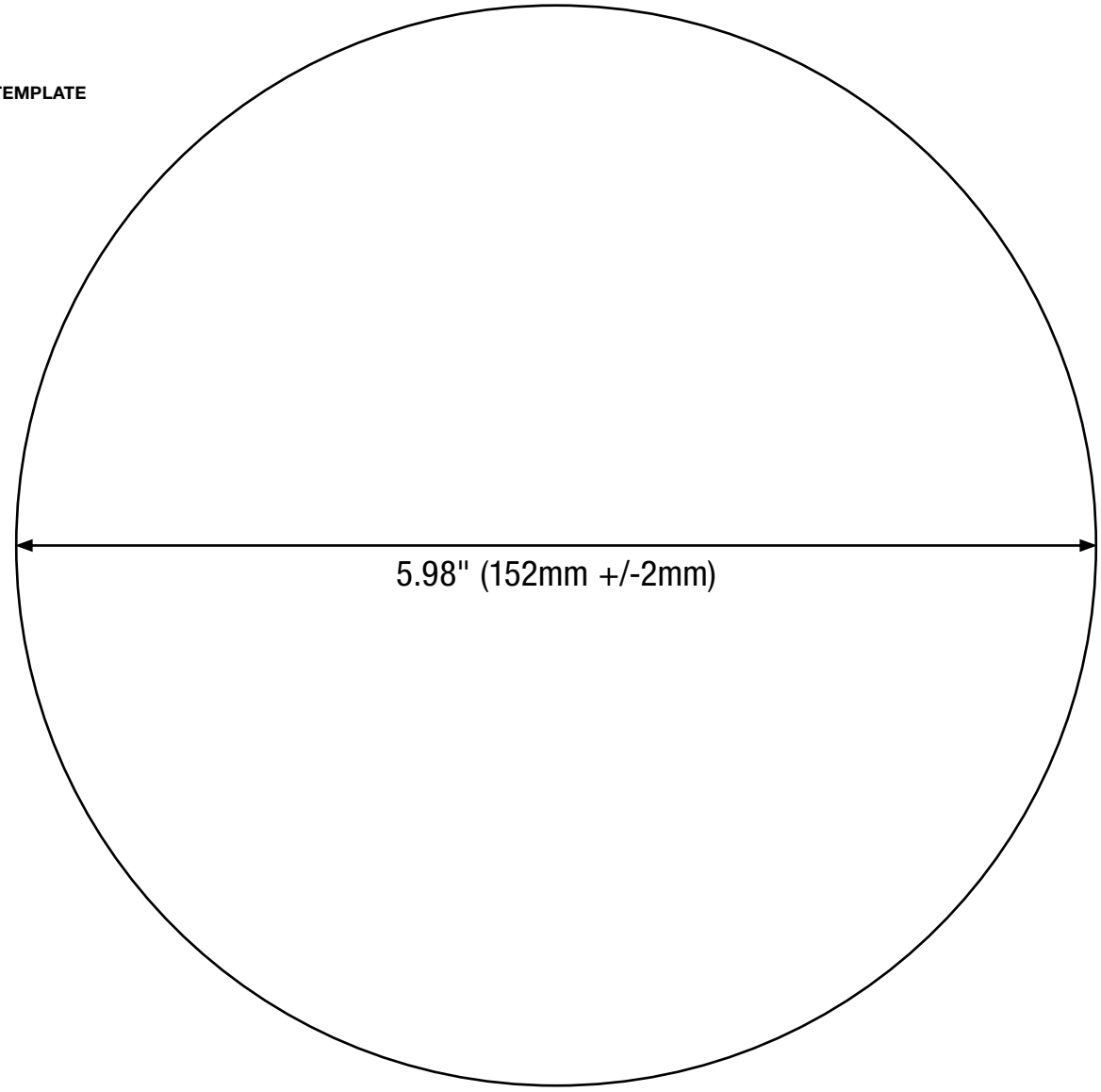
Zone	Lumens	% Luminaire
0-30	1,279.2	38.2%
0-40	2,013.5	60.1%
0-60	3,097.3	92.4%
60-90	254.7	7.6%
0-90	3,352.0	100%

HOLE CUT TEMPLATES

RT4 HOLE CUT TEMPLATE

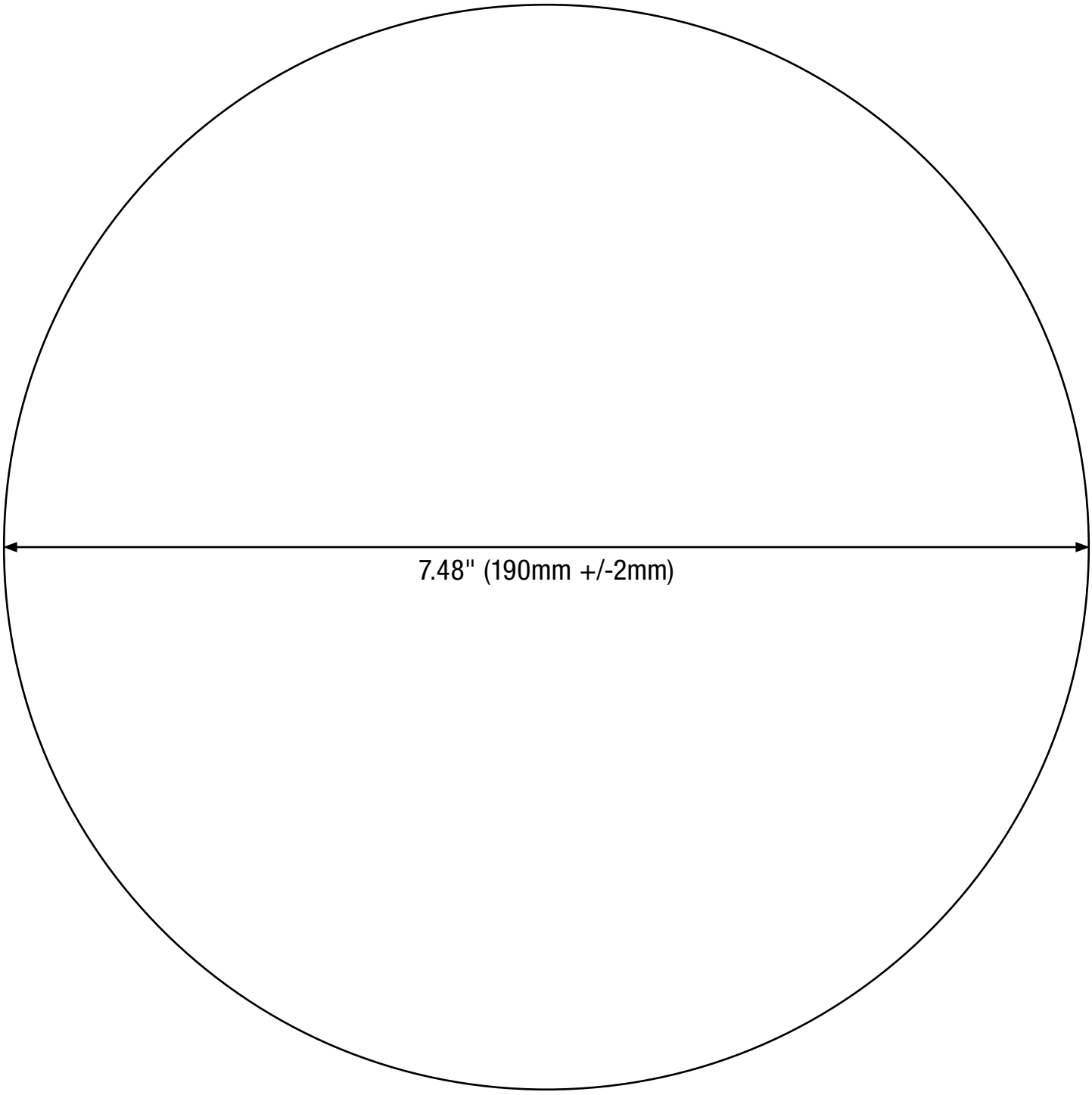


RT6 HOLE CUT TEMPLATE



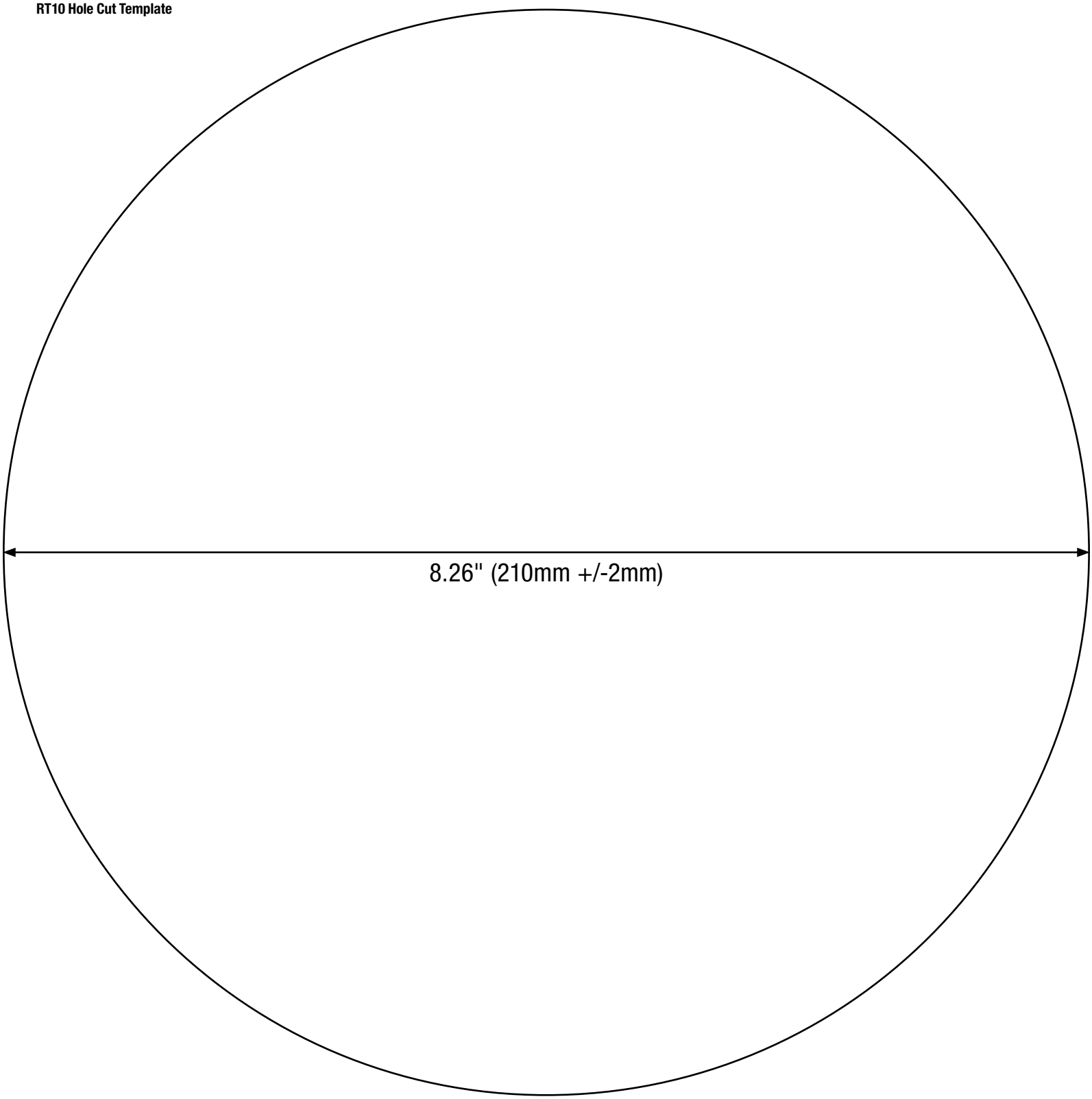
HOLE CUT TEMPLATES

RT8 HOLE CUT TEMPLATE



HOLE CUT TEMPLATES

RT10 Hole Cut Template



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