

SPECIFICATION SHEET

SUBJECT

ULTRATHIN 6" RECESSED LUMINAIRE

CUSTOMER PROJECT

Project: _____
 Type: _____
 Cat. No.: _____

 Qty: _____
 Date: _____
 EEL Rep: _____



solutions closer to nature

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

DESCRIPTION

The UltraThin Recessed Luminaire, stands apart from other fixtures of its type by providing a continual family line of products. No pot housing required and can be installed easily anywhere along a ceiling. This original family member is airtight, wet location approved and Energy Star rated. Comes in several sizes, two shapes, various colours and also accommodates UltraThin, colour changing face plates.

SPECIFICATION FEATURES

Construction

Round 6" fixture with integral LEDs

Controls

Isolated driver factory installed inside connection box

Electrical

Ambient temperature -40°C to 40°C

CRI:80

IC-Rated

120V dimmable / 277-347V non-dimmable

12 Watt equivalent to 65 Watt halogen

15 Watt equivalent to 75 Watt halogen

Beam Angle

120°

Finish

Standard - White

Special Order - Brushed Nickel and

Black

Compliance

cETLus and Energy Star

Warranty

5 years, 50,000+ hours

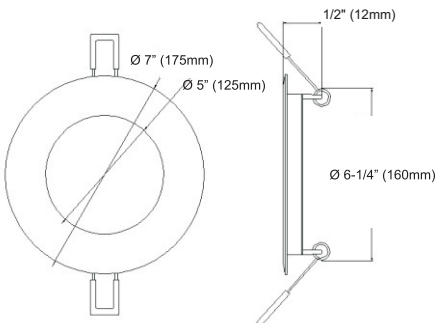
cULus 600V Push-in wire connectors, rated for 12-18 AWG

Solid/Stranded wires

One Time Use Only – Do Not Reuse (reusing the connector may lead to poor contact and cause the fixture to flicker)

Mounting

Cut hole in ceiling by using the template provided and snap fixture in opening with attached spring clips. Clearance needed - 2" (50mm).



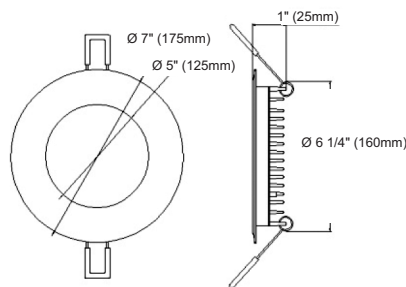
UTLED-6-S12W-3KWH / UTLED-6-S12W-3KBN / UTLED-6-S12W-3KBK
 UTLED-6-S12W-4KWH / UTLED-6-S12W-4KBN / UTLED-6-S12W-4KBK

Dimensions

OD 7" (178mm) x ID 5-15/16" (151mm)

Cut out 6-1/8" (±1/8") (155 ± 3mm)

Thickness 1/2" (12mm)



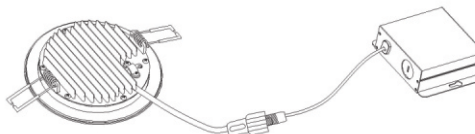
UTLED-6-S15W-3KWH / UTLED-6-S15W-3KBN / UTLED-6-S15W-3KBK
 UTLED-6-S15W-4KWH / UTLED-6-S15W-4KBN / UTLED-6-S15W-4KBK

Dimensions

OD 7" (178mm) x ID 5-15/16" (151mm)

Cut out 6-1/8" (±1/8") (155 ± 3mm)

Thickness 1" (25mm)



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ULTRATHIN
6" LED RECESSED
LUMINAIRE



ORDERING CODE, ENERGY AND PERFORMANCE DATA

	Model No.	Delivered Lumens (lm)	Input Watts (W)	Voltage (V)	Colour Temp. (K)	Certification	Type
	UTLED-6-S12W-3KWH UTLED-6-S12W-4KWH White	700 800	12 12	120V / 277-347V 120V / 277-347V	3000K 4000K		Standard Standard
	UTLED-6-S15W-3KWH UTLED-6-S15W-4KWH White	900 1000	15 15	120V / 277-347V 120V / 277-347V	3000K 4000K		Standard Standard
	UTLED-6-S12W-3KBN UTLED-6-S12W-4KBN Brushed Nickel	700 800	12 12	120V / 277-347V 120V / 277-347V	3000K 4000K		Special Order Special Order
	UTLED-6-S15W-3KBN UTLED-6-S15W-4KBN Brushed Nickel	900 1000	15 15	120V / 277-347V 120V / 277-347V	3000K 4000K		Special Order Special Order
	UTLED-6-S12W-3KBK UTLED-6-S12W-4KBK Black	700 800	12 12	120V / 277-347V 120V / 277-347V	3000K 4000K		Special Order Special Order
	UTLED-6-S15W-3KBK UTLED-6-S15W-4KBK Black	900 1000	15 15	120V / 277-347V 120V / 277-347V	3000K 4000K		Special Order Special Order

NOTE:

- 120V dimmable / 277-347V non-dimmable
- Lumens are estimated

OPTIONAL ACCESSORIES

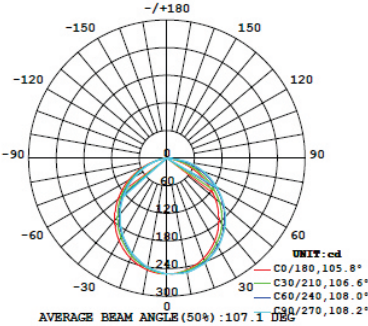
UTLED-6-MP | Mounting Plate for 6" UltraThin
 UTLED-JC-10 | 10' Extension Cable for UltraThin
 UTLED-JC-20 | 20' Extension Cable for UltraThin
 TRIM6BK | Face Plate in Black for 6" UltraThin
 TRIM6BN | Face Plate in Brushed Nickel for 6" UltraThin
 TRIM6CP | Face Plate in Copper for 6" UltraThin
 UTLED-6-GOOFRING | Goof Ring for 6" UltraThin

SHIPPING DATA

Model No.	Gross Weight
UTLED-6-S12W-3KWH	0.63 kg / 1.4 lbs
UTLED-6-S12W-4KWH	0.63 kg / 1.4 lbs
UTLED-6-S15W-3KWH	0.79 kg / 1.7 lbs
UTLED-6-S15W-4KWH	0.79 kg / 1.7 lbs
UTLED-6-S12W-3KBN	0.63 kg / 1.4 lbs
UTLED-6-S12W-3KBN	0.63 kg / 1.4 lbs
UTLED-6-S15W-3KBN	0.79 kg / 1.7 lbs
UTLED-6-S15W-4KBN	0.79 kg / 1.7 lbs
UTLED-6-S12W-3KBK	0.63 kg / 1.4 lbs
UTLED-6-S12W-3KBK	0.63 kg / 1.4 lbs
UTLED-6-S15W-3KBK	0.79 kg / 1.7 lbs
UTLED-6-S15W-4KBK	0.79 kg / 1.7 lbs



PHOTOMETRICS



UTLED-6-S12W-3K

S/MH(C0/180) = 1.23
S/MH(C90/270) = 1.31
Lumens: 661.09
Nominal Power: 12 W
Efficacy: 65.54 lm/W

Candlepower

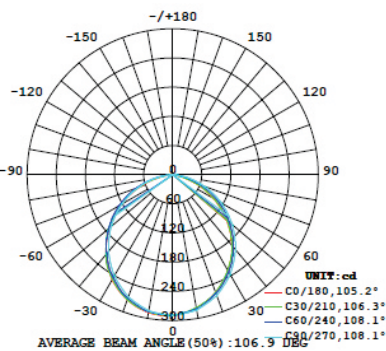
°	C0	C45	C90	C135	C180	C225	C270	C315
5	250.6	251.3	252.0	251.2	250.4	247.2	246.3	247.3
10	246.6	249.6	252.3	249.4	246.8	241.4	240.7	241.8
15	240.2	246.0	247.4	245.5	240.1	233.8	230.5	234.0
20	231.6	238.2	242.5	237.8	231.3	222.5	220.3	222.7
25	220.7	229.6	232.9	229.0	220.3	210.5	206.3	210.9
30	207.9	218.2	223.2	217.5	207.5	196.3	192.3	196.2
35	192.7	204.9	209.6	203.8	192.9	180.4	175.4	180.3
40	175.6	190.7	196.0	189.3	176.6	162.9	158.6	163.8
45	157.1	172.0	179.2	172.1	158.3	145.5	139.6	144.8
50	137.3	155.1	162.6	154.6	138.5	127.1	120.6	125.7
55	116.4	134.8	143.7	133.9	117.7	106.5	100.5	105.0
60	94.49	114.5	124.8	113.2	96.11	85.73	80.35	84.42
65	72.06	92.19	104.5	90.95	74.04	64.69	60.42	62.33
70	49.44	69.41	84.07	64.86	52.17	44.33	40.48	43.16
75	27.45	46.07	62.79	40.11	30.95	24.82	22.43	24.04
80	9.520	22.48	42.51	21.25	11.75	9.462	6.974	8.977
85	0	3.644	0	4.283	0	0.4177	0	0.2891
90	0	0	0	0	0	0	0	0

Coefficient of Utilization

ρcc	80%			70%			50%			30%			10%			0	
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio															Coefficients of Utilisation(CU)	
0.0	1.19	1.19	1.19	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
1.0	1.05	1.01	.97	1.03	.99	.96	.99	.96	.93	.95	.92	.90	.91	.89	.87		.85
2.0	.92	.85	.80	.90	.84	.79	.87	.82	.77	.83	.79	.75	.80	.77	.74		.72
3.0	.81	.73	.67	.79	.72	.66	.76	.70	.65	.74	.68	.64	.71	.67	.63		.61
4.0	.72	.63	.57	.71	.63	.56	.68	.61	.56	.66	.60	.55	.64	.58	.54		.52
5.0	.64	.56	.49	.63	.55	.49	.61	.54	.48	.59	.53	.48	.57	.52	.47		.45
6.0	.58	.49	.43	.57	.49	.43	.55	.48	.42	.54	.47	.42	.52	.46	.42		.40
7.0	.53	.44	.38	.52	.44	.38	.50	.43	.38	.49	.42	.37	.47	.42	.37		.35
8.0	.48	.40	.34	.47	.39	.34	.46	.39	.34	.45	.38	.33	.44	.38	.33		.31
9.0	.44	.36	.31	.44	.36	.30	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28	
10.0	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.27	.37	.32	.27	.26	

Zonal Lumen Summary

°	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90
0-5	5.985	5.985	5.985	5.985	5.985	5.985	5.985	5.985	5.985	5.985	5.985	5.985	5.985	5.985	5.985	5.985	5.985	5.985
5-10	17.71	23.70	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
10-15	20.78	82.47	7.94	7.94	7.94	7.94	7.94	7.94	7.94	7.94	7.94	7.94	7.94	7.94	7.94	7.94	7.94	7.94
15-20	30.72	91.20	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
20-25	47.25	128.5	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
25-30	54.01	192.5	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1
30-35	58.85	251.3	38.38	38.38	38.38	38.38	38.38	38.38	38.38	38.38	38.38	38.38	38.38	38.38	38.38	38.38	38.38	38.38
35-40	61.59	312.8	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
40-45	62.04	374.9	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
45-50	60.30	435.2	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
50-55	56.44	491.6	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
55-60	50.58	542.2	82.82	82.82	82.82	82.82	82.82	82.82	82.82	82.82	82.82	82.82	82.82	82.82	82.82	82.82	82.82	82.82
60-65	43.01	585.2	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
65-70	33.87	619.1	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
70-75	23.78	642.9	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
75-80	13.79	656.6	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
80-85	4.381	661.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
85-90	0.0561	661.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0



UTLED-6-S12W-4K

S/MH(C0/180) = 1.18
S/MH(C90/270) = 1.22
Lumens: 758.78
Nominal Power: 12 W
Efficacy: 74.78 lm/W

Candlepower

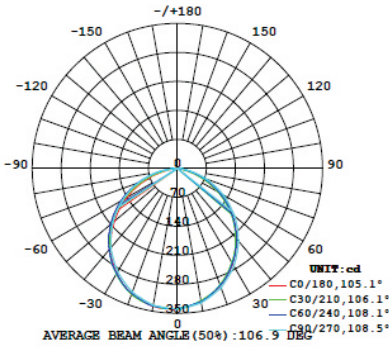
°	C0	C45	C90	C135	C180	C225	C270	C315
5	285.7	284.8	286.2	287.9	287.0	285.5	287.0	285.4
10	279.0	278.7	282.7	284.7	287.7	285.9	284.4	279.8
15	269.6	270.5	273.7	279.1	282.2	281.0	276.0	272.2
20	257.7	258.0	264.6	269.1	272.9	271.5	267.6	260.1
25	243.4	244.6	250.7	257.9	263.1	260.9	254.3	246.9
30	227.2	229.6	236.7	242.8	249.6	247.4	240.9	231.2
35	209.1	210.7	218.9	227.2	233.1	231.4	223.7	213.7
40	189.2	192.2	201.1	209.5	214.1	214.6	206.4	198.5
45	167.7	171.0	180.5	188.6	192.0	194.6	186.2	174.3
50	144.8	149.4	159.9	167.3	170.5	174.2	165.9	153.6
55	120.7	125.8	137.5	143.7	146.7	150.6	143.5	130.4
60	95.87	102.3	115.2	120.1	122.0	127.0	121.1	107.9
65	70.69	77.88	91.40	94.61	96.38	102.1	97.78	82.92
70	45.65	52.66	67.65	66.92	70.43	77.16	74.43	59.19
75	22.02	30.58	46.17	39.34	44.66	52.10	51.95	36.13
80	9.211	11.20	24.69	19.86	18.80	28.41	29.48	15.49
85	0	0.1746	0	3.595	0	6.101	0	1.594
90	0	0	0	0	0	0	0	0

Coefficient of Utilization

ρcc	80%			70%			50%			30%			10%			0	
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio															1.00	
	Coefficients of Utilization(CU)																
0.0	1.19	1.19	1.19	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	
1.0	1.05	1.01	.97	1.03	.99	.96	.99	.96	.93	.95	.92	.90	.91	.89	.87	.85	
2.0	.92	.85	.80	.90	.84	.79	.87	.82	.77	.83	.79	.75	.80	.77	.74	.72	
3.0	.81	.73	.67	.79	.72	.66	.76	.70	.65	.74	.68	.64	.71	.67	.63	.61	
4.0	.72	.63	.57	.71	.63	.56	.68	.61	.56	.66	.60	.55	.64	.58	.54	.52	
5.0	.64	.56	.49	.63	.55	.49	.61	.54	.48	.59	.53	.48	.57	.52	.47	.45	
6.0	.58	.49	.43	.57	.49	.43	.55	.48	.42	.54	.47	.42	.52	.46	.42	.40	
7.0	.53	.44	.38	.52	.44	.38	.50	.43	.38	.49	.42	.37	.48	.42	.37	.35	
8.0	.48	.40	.34	.47	.39	.34	.46	.39	.34	.45	.38	.33	.44	.38	.33	.31	
9.0	.44	.36	.31	.44	.36	.30	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28	
10.0	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.27	.37	.32	.27	.26	



PHOTOMETRICS



UTLED-6-S15W-3K

S/MH(C0/180) = 1.17
S/MH(C90/270) = 1.20
Lumens: 889.63
Nominal Power: 14 W
Efficacy: 70.63 lm/W

Candlepower

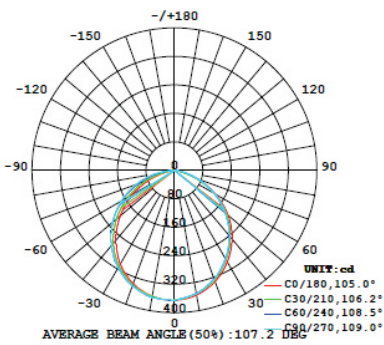
γ	C0	C45	C90	C135	C180	C225	C270	C315
5	324.9	323.0	324.6	327.0	340.4	339.1	327.6	335.1
10	326.8	325.2	329.6	332.6	337.8	336.9	333.5	329.3
15	315.6	314.8	318.1	325.8	331.7	332.2	326.8	320.9
20	301.5	299.5	306.7	313.5	322.5	322.1	318.1	307.3
25	284.6	282.9	289.5	299.9	309.7	310.7	303.2	292.7
30	265.8	263.6	272.2	282.9	292.3	295.2	288.4	274.7
35	244.2	242.0	250.8	262.9	272.5	276.9	269.1	254.4
40	221.6	219.7	229.3	240.6	249.8	257.0	249.7	234.4
45	196.7	194.4	204.7	215.6	225.1	232.5	226.6	209.1
50	170.6	169.3	180.0	190.3	198.5	209.6	203.5	185.0
55	142.6	142.1	153.1	162.0	170.5	182.0	177.9	158.4
60	113.6	113.0	124.2	133.7	141.3	154.4	152.2	132.1
65	84.04	84.44	95.55	102.9	111.0	125.1	125.2	104.2
70	54.43	55.88	70.84	79.76	89.49	95.37	95.19	76.33
75	26.00	27.80	44.40	50.79	59.10	65.19	71.45	49.70
80	2.700	11.39	21.93	19.20	20.91	36.33	44.71	21.86
85	0	0	0	2.955	0	8.102	0	2.640
90	0	0	0	0	0	0	0	0

Zonal Lumen Summary

γ	θ zone	θ total	lum, lam
0-5	8.069	8.069	0.91, 0.91
5-10	22.89	31.95	3.89, 3.89
10-15	38.81	70.76	7.95, 7.95
15-20	52.23	123.0	13.8, 13.8
20-25	62.73	186.7	21.21
25-30	72.79	259.5	28.2, 28.2
30-35	79.22	339.7	36.1, 36.1
35-40	82.75	422.5	47.4, 47.4
40-45	83.37	504.8	56.7, 56.7
45-50	81.03	585.9	65.9, 65.9
50-55	75.89	661.8	74.4, 74.4
55-60	68.06	729.8	82.02
60-65	57.86	787.7	89.9, 89.9
65-70	45.52	833.2	93.7, 93.7
70-75	31.95	865.1	97.2, 97.2
75-80	18.42	883.6	99.4, 99.4
80-85	5.954	889.6	100, 100
85-90	0.0982	889.6	100, 100

Coefficient of Utilization

ρcc	80%			70%			50%			20%			10%			0	
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio															Coefficients of Utilization (CU)	
0.0	1.19	1.19	1.19	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	
1.0	1.05	1.01	.97	1.03	.99	.96	.99	.96	.93	.95	.92	.90	.91	.89	.87	.85	
2.0	.92	.85	.80	.90	.84	.79	.87	.82	.77	.83	.79	.75	.80	.77	.74	.72	
3.0	.81	.73	.67	.79	.72	.66	.76	.70	.65	.74	.68	.64	.71	.67	.63	.61	
4.0	.72	.63	.57	.71	.63	.56	.68	.61	.56	.66	.60	.55	.64	.58	.54	.52	
5.0	.64	.56	.49	.63	.55	.49	.61	.54	.48	.59	.53	.48	.57	.52	.47	.45	
6.0	.58	.49	.43	.57	.49	.43	.55	.48	.42	.54	.47	.42	.52	.46	.42	.40	
7.0	.53	.44	.38	.52	.44	.38	.50	.43	.38	.49	.42	.37	.48	.42	.37	.35	
8.0	.48	.40	.34	.47	.39	.34	.46	.39	.34	.45	.38	.33	.44	.38	.33	.31	
9.0	.44	.36	.31	.44	.36	.30	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28	
10.0	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.27	.37	.32	.27	.26	



UTLED-6-S15W-4K

S/MH(C0/180) = 1.22
S/MH(C90/270) = 1.18
Lumens: 950.782 W
Nominal Power: 14W
Efficacy: 73.48 lm/W

Candlepower

γ	C0	C45	C90	C135	C180	C225	C270	C315
5	362.1	358.9	358.5	360.1	363.8	363.8	363.7	362.6
10	355.5	351.3	352.3	352.2	359.0	360.8	362.7	358.6
15	345.5	341.0	339.2	342.9	350.5	355.1	354.5	351.6
20	332.6	325.2	326.0	329.1	338.8	342.7	346.3	339.0
25	316.1	308.3	306.7	312.9	322.6	331.1	331.5	325.2
30	297.1	288.1	287.4	293.3	304.6	314.7	316.7	307.6
35	275.7	265.7	263.9	269.6	281.1	294.0	296.3	287.1
40	252.1	241.8	240.4	244.8	255.9	272.1	275.9	265.7
45	225.5	215.1	213.4	216.9	228.2	247.3	251.7	240.7
50	196.8	186.4	186.5	188.9	198.8	221.1	227.6	215.7
55	165.4	156.4	157.2	167.8	167.8	191.3	200.3	187.3
60	131.8	127.7	127.9	126.9	135.5	161.2	173.1	158.1
65	97.38	95.49	95.12	94.96	102.2	128.7	144.0	125.7
70	62.29	64.17	65.33	61.84	69.86	95.60	114.8	92.16
75	28.34	34.77	40.03	31.67	36.49	62.45	84.20	57.36
80	2.378	12.01	17.79	10.71	7.549	30.62	52.62	25.15
85	0	0	0	0.0022	0	5.066	0	2.834
90	0	0	0	0	0	0	0	0

Zonal Lumen Summary

γ	θ zone	θ total	lum, lam
0-5	8.675	8.675	0.91, 0.91
5-10	25.68	34.35	3.61, 3.61
10-15	41.74	76.09	8.8
15-20	56.19	132.3	13.9, 13.9
20-25	68.60	200.9	21.1, 21.1
25-30	78.42	279.3	28.4, 28.4
30-35	85.38	364.7	36.4, 36.4
35-40	89.20	453.9	47.7, 47.7
40-45	89.90	543.8	57.2, 57.2
45-50	87.35	631.1	66.4, 66.4
50-55	81.68	712.8	75.75
55-60	72.97	785.8	82.6, 82.6
60-65	61.62	847.4	89.1, 89.1
65-70	47.86	895.3	94.2, 94.2
70-75	32.64	927.9	97.6, 97.6
75-80	17.75	945.6	99.5, 99.5
80-85	5.088	950.7	100, 100
85-90	0.0499	950.8	100, 100

Coefficient of Utilization

ρcc	80%			70%			50%			30%			10%			0														
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
ρfc	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Coefficients of Utilization (CU)														
0.0	1.19	1.19	1.19	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														
1.0	1.05	1.01	.98	1.03	.99	.96	.99	.96	.93	.95	.92	.90	.91	.89	.88	.86														
2.0	.92	.86	.80	.90	.84	.79	.87	.82	.78	.84	.79	.76	.81	.77	.74	.72														
3.0	.81	.73	.67	.80	.72	.67	.77	.71	.65	.74	.69	.64	.72	.67	.63	.61														
4.0	.72	.64	.57	.71	.63	.57	.68	.61	.56	.66	.60	.55	.64	.59	.55	.52														
5.0	.65	.56	.49	.64	.55	.49	.61	.54	.49	.59	.53	.48	.58	.52	.48	.45														
6.0	.58	.49	.43	.57	.49	.43	.56	.48	.43	.54	.47	.42	.52	.46	.42	.40														
7.0	.53	.44	.38	.52	.44	.38	.51	.43	.38	.49	.42	.38	.48	.42	.37	.35														
8.0	.48	.40	.34	.48	.40	.34	.46	.39	.34	.45	.38	.34	.44	.38	.33	.32														
9.0	.44	.36	.31	.44	.36	.31	.43	.35	.31	.42	.35	.30	.41	.35	.30	.28														
10.0	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.28	.38	.32	.27	.26														

