

KICHLER®

KICHLER PHOTOMETRIC LAB

Filename: RLM - SC12 Shade 72W - Photometric Report

Manufacturer: Kichler Lighting LLC

Luminaire: SC12 - 12" Shallow Classic Shade

Luminaire Cat: CTR180916-09

Lamp: 72W 100W Replacement A19

Lamp Output: 1 lamp, rated Lumens/lamp: 1490

Max Candela: 275.6 at Horizontal: 30°, Vertical: 35°

Input Wattage: 72.7

Luminous Opening: Circular (Dia: 12")

Test: LM-79 Distribution

Test Lab: Kichler Lighting LLC

Photometry : Type C

Roadway Summary

Cutoff Classification:	NONCUTOFF
Distribution:	TYPE IV, VERY SHORT
Max Cd, 90 Deg Vert:	172.6
Max Cd, 80 to <90 Deg:	203.6
Lumens % Lamp	
Downward Street Side:	660.8 44.4%
Downward House Side:	601.6 40.4%
Downward Total:	1,262.4 84.7%
Upward Street Side:	59.8 4%
Upward House Side:	56.0 3.8%
Upward Total:	115.8 7.8%
Total Lumens:	1,378.2 92.5%

Flood Summary

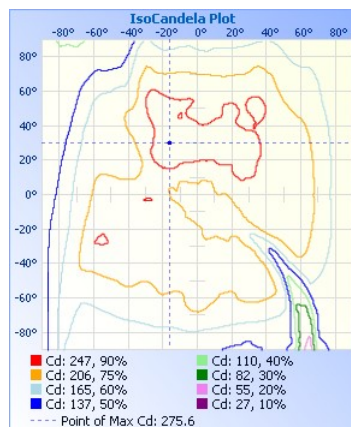
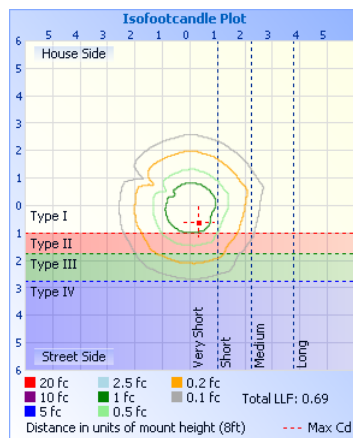
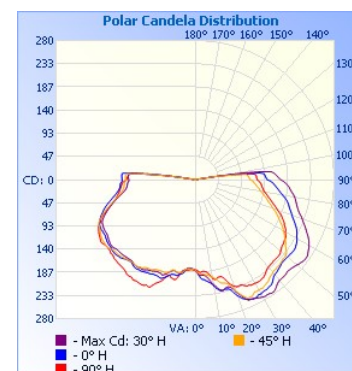
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	92.3%	1,375.5	n/a	199
Beam (50%):	85.9%	1,279.3	60.8	189.6
Total:	92.5%	1,379.0		

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	186.1	12.5%	13.5%
0-40	332.3	22.3%	24.1%
0-60	707.5	47.5%	51.3%
60-90	554.9	37.2%	40.3%
70-100	462.6	31%	33.6%
90-120	115.8	7.8%	8.4%
0-90	1,262.5	84.7%	91.6%
90-180	115.8	7.8%	8.4%
0-180	1,378.3	92.5%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	18.3	1.3%	90-100	114.5	8.3%
10-20	60.4	4.4%	100-110	1.3	0.1%
20-30	107.4	7.8%	110-120	0	0%
30-40	146.3	10.6%	120-130	0	0%
40-50	175.3	12.7%	130-140	0	0%
50-60	199.9	14.5%	140-150	0	0%
60-70	206.8	15.0%	150-160	0	0%
70-80	186.2	13.5%	160-170	0	0%
80-90	161.8	11.7%	170-180	0	0%



Illuminance at a Distance		
Center Beam fc	Beam Width	
1.3ft	1.5 ft	108 fc
2.7ft	3.2 ft	24.9 fc
4.0ft	4.7 ft	11.4 fc
5.3ft	6.2 ft	6.47 fc
6.7ft	7.9 ft	4.05 fc
8.0ft	9.4 ft	2.84 fc

Horiz. Spread: 60.8°



Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50				30				10				0
RW %:	70	50	30	0	70	50	30	0	50	30	20	10	50	30	20	10	50	30	20	10	0
RCR: 0	1.08	1.08	1.08	1.08	1.05	1.05	1.05	.85	.98	.98	.98	.87	.93	.93	.93	.87	.87	.87	.87	.87	.85
1	.94	.87	.81	.76	.90	.84	.79	.61	.78	.74	.70	.66	.73	.70	.66	.69	.66	.63	.63	.60	.60
2	.83	.73	.64	.57	.80	.70	.63	.48	.66	.59	.54	.51	.61	.56	.51	.57	.53	.49	.46	.46	.46
3	.74	.62	.53	.45	.71	.60	.51	.38	.56	.49	.42	.41	.52	.46	.41	.49	.43	.39	.36	.36	.36
4	.67	.54	.44	.37	.64	.52	.43	.31	.49	.41	.35	.33	.45	.39	.33	.42	.37	.32	.29	.29	.29
5	.61	.47	.38	.31	.59	.46	.37	.26	.43	.35	.29	.28	.40	.33	.28	.38	.32	.27	.24	.24	.24
6	.56	.42	.33	.26	.54	.41	.32	.23	.38	.30	.25	.24	.36	.29	.24	.34	.28	.23	.21	.21	.21
7	.52	.38	.29	.22	.50	.37	.28	.20	.34	.27	.21	.21	.32	.26	.21	.30	.24	.20	.18	.18	.18
8	.48	.34	.26	.20	.46	.33	.25	.17	.31	.24	.19	.18	.29	.23	.18	.28	.22	.17	.15	.15	.15
9	.45	.31	.23	.17	.43	.30	.22	.15	.29	.21	.16	.16	.27	.21	.16	.25	.20	.15	.14	.14	.14
10	.42	.29	.21	.15	.40	.28	.20	.14	.26	.19	.15	.14	.25	.19	.14	.24	.18	.14	.12	.12	.12

[illegible]

[illegible]

Maximum lm: 0.5
Field lm: 1,375.5
Total lm: 1,379.0

Candela Table - Type C

	Time																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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Luminaire Report Summary

IESNA:LM-63-2002
[LUMCAT] CTR180916-09
[LUMINAIRE] SC12 - 12" Shallow Classic Shade
[LAMP] 72W 100W Replacement A19
[TEST] LM-79 Distribution
[TESTLAB] Kichler Lighting LLC
[ISSUEDATE] 12/18/2019
[MANUFAC] Kichler Lighting LLC
FILE: CANDELA MULTIPLIER: 1
FILE: VERTICAL ANGLES: 181, HORIZONTAL ANGLES: 73
FILE: COORDINATE SYSTEM: TYPE C
FILE: UNIT OF MEASURE: STANDARD
FILE: BALLAST FACTOR: 1

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Reported data calculated from manufacturer's data file, based on IES recommended methods.