

KICHLER®

KICHLER PHOTOMETRIC LAB

Filename: RLM-WS12 Shade-Smoke Jar-72W-Photometric Report**Manufacturer:** Kichler Lighting LLC**Luminaire:** WS12-12" Warehouse Shade**Luminaire Cat:** CTR180951-04**Lamp:** 72W 100W Replacement A19**Lamp Output:** 1 lamp, rated Lumens/lamp: 1490**Max Candela:** 186.8 at Horizontal: 265°, Vertical: 46°**Input Wattage:** 72.5**Luminous Opening:** Ellipsoidal Spheroid (L: 12", W: 12", H: 5.52")**Test:** LM-79 Distribution**Test Lab:** Kichler Lighting LLC**Photometry :** Type C**Roadway Summary**

Cutoff Classification:	NONCUTOFF
Distribution:	TYPE IV, SHORT
Max Cd, 90 Deg Vert:	98.6
Max Cd, 80 to <90 Deg:	129.0
Lumens % Lamp	
Downward Street Side:	307.2 20.6%
Downward House Side:	326.4 21.9%
Downward Total:	633.6 42.5%
Upward Street Side:	24.3 1.6%
Upward House Side:	21.0 1.4%
Upward Total:	45.3 3%
Total Lumens:	678.9 45.6%

Flood Summary

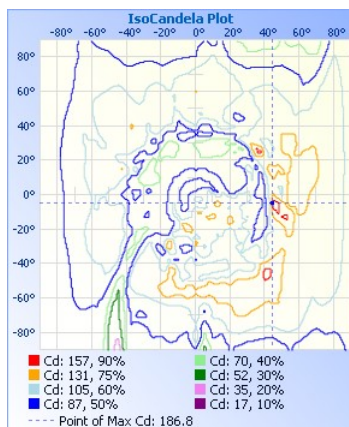
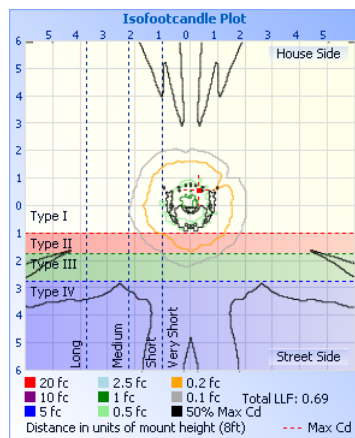
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	45.4%	676.9	n/a	197.3
Beam (50%):	34%	506.2	4.4	157.6
Total:	45.6%	679.3		

Zonal Lumen Summary

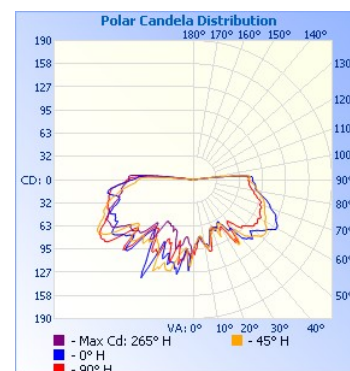
Zone	Lumens	% Lamp	% Luminaire
0-30	77.3	5.2%	11.4%
0-40	132.6	8.9%	19.5%
0-60	323.0	21.7%	47.6%
60-90	310.6	20.8%	45.8%
70-100	242.7	16.3%	35.8%
90-120	45.3	3%	6.7%
0-90	633.6	42.5%	93.3%
90-180	45.3	3%	6.7%
0-180	679.0	45.6%	100%

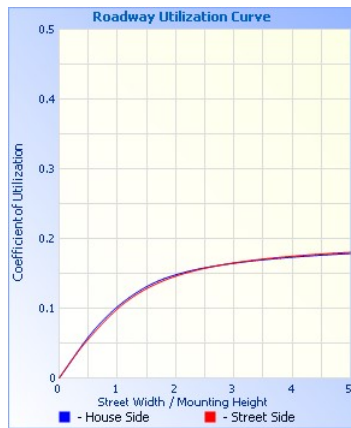
Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	8.9	1.3%	90-100	45.0	6.6%
10-20	28.0	4.1%	100-110	0.3	0%
20-30	40.4	6.0%	110-120	0.0	0%
30-40	55.3	8.1%	120-130	0	0%
40-50	82.7	12.2%	130-140	0	0%
50-60	107.6	15.9%	140-150	0	0%
60-70	112.9	16.6%	150-160	0	0%
70-80	105.8	15.6%	160-170	0	0%
80-90	91.9	13.5%	170-180	0	0%



Illuminance at a Distance			
	Center Beam fc	Beam Width	
1.3ft	57.3 fc	13.1 ft	0.1 ft
2.7ft	13.3 fc	27.3 ft	0.2 ft
4.0ft	6.06 fc	40.4 ft	0.3 ft
5.3ft	3.45 fc	53.6 ft	0.4 ft
6.7ft	2.16 fc	67.7 ft	0.5 ft
8.0ft	1.51 fc	80.9 ft	0.6 ft
	Vert. Spread: 157.6°		
	Horiz. Spread: 4.4°		





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	50	30	20	50	30	20	50	30	0	
RCR: 0	.54	.54	.54	.54	.52	.52	.52	.43	.49	.49	.49	.46	.46	.46	.44	.44	.44	.43			
1	.46	.42	.39	.36	.44	.41	.38	.30	.38	.36	.34	.36	.34	.32	.34	.32	.31	.29			
2	.40	.35	.31	.27	.39	.34	.30	.23	.31	.28	.25	.29	.27	.24	.27	.25	.23	.22			
3	.36	.30	.25	.21	.34	.29	.24	.18	.27	.23	.20	.25	.22	.19	.23	.20	.18	.17			
4	.32	.25	.20	.17	.31	.25	.20	.14	.23	.19	.16	.21	.18	.15	.20	.17	.15	.13			
5	.29	.22	.17	.14	.28	.22	.17	.12	.20	.16	.13	.19	.15	.13	.18	.15	.12	.11			
6	.27	.20	.15	.12	.26	.19	.15	.10	.18	.14	.11	.17	.13	.11	.16	.13	.10	.09			
7	.25	.18	.13	.10	.24	.17	.13	.09	.16	.12	.09	.15	.12	.09	.14	.11	.09	.08			
8	.23	.16	.12	.09	.22	.16	.11	.08	.15	.11	.08	.14	.10	.08	.13	.10	.08	.07			
9	.21	.15	.10	.08	.21	.14	.10	.07	.13	.10	.07	.13	.09	.07	.12	.09	.07	.06			
10	.20	.13	.09	.07	.19	.13	.09	.06	.12	.09	.06	.12	.08	.06	.11	.08	.06	.05			

[illegible]

[illegible]

Maximum lm: 0.3
Field lm: 676.9
Total lm: 679.3

Candela Table - Type C

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	2						
0	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97			
1	93	92	91	90	90	89	90	91	92	92	93	93	94	96	97	99	99	102	102	101	100	100	101	101	101	102	102	102	101	101	102	101	101	100	100	100	100	100	100	102	100	102	101	103	106	108	108	1					
2	88	87	87	86	87	87	87	87	88	88	89	90	91	92	93	93	95	95	97	97	96	98	98	100	102	105	105	106	109	108	111	109	109	117	110	102	102	104	107	109	114	117	119	122	119	1							
3	87	85	84	85	85	85	85	86	86	85	86	87	89	89	89	90	91	92	94	93	94	94	95	97	96	97	100	102	104	104	107	111	111	116	118	124	133	134	148	155	151	136	127	119	117	1							
4	85	81	81	82	82	81	81	83	82	83	85	84	84	85	85	88	88	87	86	87	88	89	89	90	90	91	89	93	98	98	97	98	98	100	101	101	109	111	116	110	112	115	113	112	109	105	1						
5	80	78	79	78	77	77	77	79	79	81	82	81	82	83	84	83	83	84	84	85	84	83	84	86	84	86	88	91	94	95	97	97	92	96	98	97	95	95	95	96	97	97	99	96	98	95							
6	78	78	78	77	76	76	75	76	77	78	78	79	78	81	80	80	80	81	82	81	81	82	82	82	82	82	84	85	86	89	95	93	99	100	96	103	102	98	95	93	96	94	94	99	95	100	93						
7	79	80	80	79	79	78	77	77	77	77	78	77	78	79	79	79	80	80	80	80	80	81	81	82	82	84	83	87	89	93	97	103	105	106	106	107	103	96	102	97	100	102	98	98	96	1							
8	85	86	86	85	84	84	83	82	82	81	83	83	81	80	80	79	80	79	79	80	79	80	79	82	82	82	82	81	83	88	89	92	97	104	112	113	112	114	114	113	104	105	104	104	101	98	1						
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27	73	75	72	77	70	73	66	69	74	79	76	81	79	66	63	66	72	105	74	70	74	79	77	71	70	72	73	72	78	89	109	102	97	91	92	94	132	111	104	117	117	117	109	99	109	99	104	1					
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30	66	72	69	76	68	63	61	62	65	69	71	67	64	64	62	61	68	83	74	70	72	84	80	69	75	86	86	84	105	126	100	89	86	81	86	128	121	100	115	94	98	93	101	98	98	1							
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32	73																																																				

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Luminaire Report Summary

IESNA:LM-63-2002
[LUMCAT] CTR180951-04
[LUMINAIRE] WS12-12" Warehouse Shade
[LAMP] 72W 100W Replacement A19
[TEST] LM-79 Distribution
[TESTLAB] Kichler Lighting LLC
[ISSUEDATE] 1/27/2020
[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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