

KICHLER®

KICHLER PHOTOMETRIC LAB

Filename: RLM - AS10 Shade 72W - Photometric Report

Manufacturer: Kichler Lighting LLC

Luminaire: AS10 - 10° Angle Shade

Luminaire Cat: CTR180916-07

Lamp: 72W 100W Replacement A19

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

Max Candela: 2,463.3 at Horizontal: 0°, Vertical: 30°

Input Wattage: 72.7

Luminous Opening: Circular (Dia: 9.96", 0")

Test: LM-79 Distribution

Test Lab: Kichler Lighting LLC

Photometry: Type C

Nema Type: 5 X 5

Roadway Summary

Cutoff Classification:	NONCUTOFF
Distribution:	TYPE I, VERY SHORT
Max Cd, 90 Deg Vert:	90.9
Max Cd, 80 to <90 Deg:	183.7
Lumens % Lamp	
Downward Street Side:	855.3 57.4%
Downward House Side:	160.0 10.7%
Downward Total:	1,015.3 68.1%
Upward Street Side:	22.7 1.5%
Upward House Side:	0 0%
Upward Total:	22.7 1.5%
Total Lumens:	1,038.0 69.7%

Flood Summary

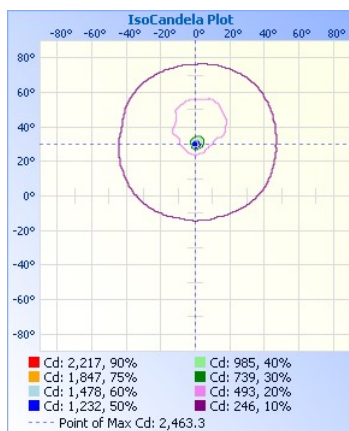
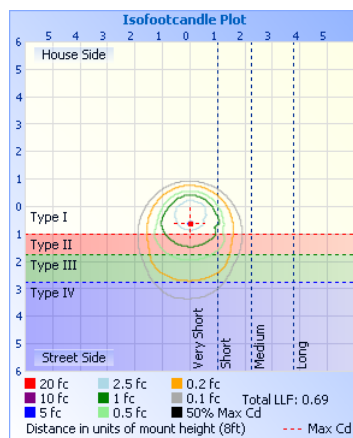
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	51.5%	767.4	91.1	90.8
Beam (50%):	0.3%	5.1	4	4
Total:	69.7%	1,038.6		

Zonal Lumen Summary

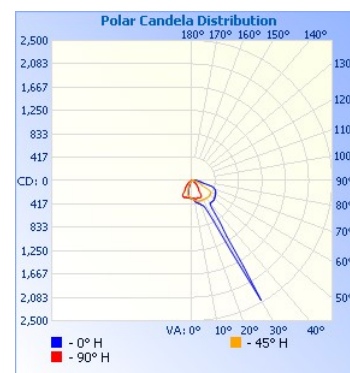
Zone	Lumens	% Lamp	% Luminaire
0-30	259.8	17.4%	25%
0-40	431.0	28.9%	41.5%
0-60	766.8	51.5%	73.9%
60-90	248.4	16.7%	23.9%
70-100	130.8	8.8%	12.6%
90-120	22.7	1.5%	2.2%
0-90	1,015.2	68.1%	97.8%
90-180	22.7	1.5%	2.2%
0-180	1,037.9	69.7%	100%

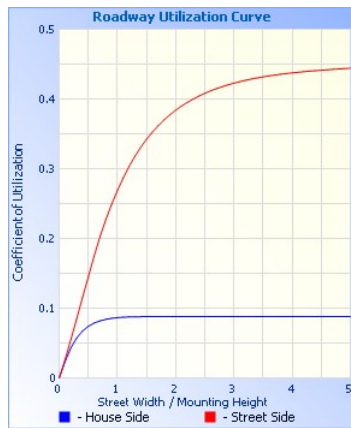
Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	30.7	3.0%	90-100	16.3	1.6%
10-20	90.5	8.7%	100-110	5.6	0.5%
20-30	138.6	13.4%	110-120	0.8	0.1%
30-40	171.2	16.5%	120-130	0	0%
40-50	173.2	16.7%	130-140	0	0%
50-60	162.6	15.7%	140-150	0	0%
60-70	133.9	12.9%	150-160	0	0%
70-80	78.0	7.5%	160-170	0	0%
80-90	36.5	3.5%	170-180	0	0%



Illuminance at a Distance			
	Center Beam fc	Beam Width	
1.3ft	189 fc	0.1 ft	0.1 ft
2.7ft	43.8 fc	0.2 ft	0.2 ft
4.0ft	19.9 fc	0.3 ft	0.3 ft
5.3ft	11.4 fc	0.4 ft	0.4 ft
6.7ft	7.11 fc	0.5 ft	0.5 ft
8.0ft	4.98 fc	0.6 ft	0.6 ft
■ Vert. Spread: 4.0°			
■ Horiz. Spread: 4.0°			





Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80			70			50			30			10			0
RW %:	70	50	30	70	50	30	70	50	30	70	50	30	70	50	30	0
RCR: 0	83.83	83.83	83.83	80.80	80.68	77.77	77.77	77.77	73.73	73.73	70.70	70.70	68.68	68.68	68.68	68.68
1	75.71	68.65	68.65	73.69	67.56	66.64	62.63	61.59	60.59	57.56	56.52	54.46	53.40	50.46	48.38	46.30
2	68.62	57.52	56.60	66.60	56.47	57.54	50.45	55.52	49.49	53.46	48.44	46.38	43.34	40.30	38.24	36.18
3	62.54	48.43	47.50	60.53	47.40	50.46	42.37	48.44	41.33	46.40	39.29	44.36	37.25	42.32	35.21	32.17
4	56.48	41.36	40.43	55.47	41.34	45.40	35.33	43.38	35.33	41.37	34.26	39.33	32.22	37.29	30.18	27.14
5	52.42	36.31	35.38	50.42	36.29	40.35	31.28	38.34	30.23	37.33	28.22	35.28	27.17	34.24	26.13	23.09
6	48.38	32.27	31.34	46.37	31.26	36.31	27.19	35.30	26.23	33.29	24.18	31.25	23.14	30.21	22.10	19.06
7	44.35	28.24	27.31	43.34	28.23	33.27	24.16	32.27	23.10	30.26	21.15	28.22	19.11	26.18	18.07	15.03
8	41.31	25.21	24.28	40.31	25.20	30.25	21.13	29.24	21.11	28.24	19.12	26.21	17.10	24.19	16.08	13.04
9	38.29	23.19	22.26	37.28	23.18	27.22	19.11	27.22	19.11	26.22	17.11	24.20	15.09	22.18	14.07	11.03
10	36.27	21.17	20.24	35.26	21.17	25.20	17.10	25.20	17.10	24.21	15.10	22.19	13.08	20.17	12.06	9.02

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Maximum lm: 2.7
Field lm: 767.4
Total lm: 1,038.6

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					
0	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319					
1	324	324	323	323	323	323	323	323	323	322	321	321	320	320	320	320	319	319	320	319	319	319	318	317	317	317	316	315	315	314	314	314	314	314	314	314	314	314	316	316	316	316	316	316	316	316	316	316	316		
2	329	329	329	329	329	328	328	328	327	326	326	325	324	323	322	321	320	320	320	319	319	318	318	317	317	316	316	316	315	314	312	312	311	311	310	310	311	312	312	312	312	312	312	312	312	312	313	313	313	313	
3	334	334	334	334	333	333	332	331	329	328	327	327	326	325	323	321	320	319	318	317	316	316	315	314	314	314	315	315	315	314	313	311	310	309	309	308	308	309	308	308	308	308	308	308	308	308	309	309	309	309	
4	340	340	339	338	338	338	337	336	335	332	331	329	328	326	325	323	321	319	318	318	316	314	312	311	309	309	310	311	311	312	311	310	308	307	306	305	305	306	306	305	306	306	305	303	303	303	303	304	305	305	305
5	347	346	346	344	343	343	342	341	339	338	335	333	330	328	326	323	319	317	317	315	314	314	313	311	309	307	307	305	305	306	306	307	307	306	305	303	302	303	304	304	304	302	301	300	297	298	300	301	301	301	
6	354	354	352	351	349	349	347	345	343	341	339	335	332	328	326	323	318	315	315	314	311	309	307	306	306	306	305	302	301	301	302	304	304	302	300	299	301	302	302	300	299	301	302	302	300	299	297	298	298		
7	362	362	359	358	355	353	352	350	348	345	341	338	335	331	327	325	321	318	316	313	312	309	306	306	303	299	302	301	298	297	297	300	303	299	297	297	298	299	299	297	294	293	290	292	294	296	296	296			
8	370	369	367	364	361	358	357	355	353	350	344	340	338	334	329	327	323	323	318	314	315	310	306	304	300	297	295	297	298	294	293	296	301	297	294	294	295	297	295	293	290	290	290	290	292	293	293	293			
9	377	374	373	371	368	366	363	359	355	352	348	342	340	336	331	328	328	327	324	320	317	312	309	304	299	297	292	290	296	295	291	290	295	294	291	290	292	292	291	287	287	290	288	287	288	290	290	290			
10	385	381	377	376	377	374	366	362	359	355	351	346	342	338	333	330	331	330	328	324	320	316	312	306	302	294	289	286	288	295	290	284	289	291	289	288	289	287	284	282	286	288	287	285	285	286	286	286			
11	393	387	382	382	385	378	372	367	363	359	355	349	344	339	334	331	333	332	331	326	322	318	312	309	303	294	289	284	282	289	291	281	284	288	286	283	284	283	279	279	284	285	284	282	281	281	281	281			
12	399	393	389	392	387	382	377	372	368	364	358	351	345	339	333	330	333	332	329	322	318	314	308	302	298	290	288	280	278	283	289	278	277	286	281	278	277	278	275	277	281	282	281	278	276	275	275	275			
13	405	397	396	399	391	386	383	377	373	368	362	355	346	340	334	330	330	332	331	329	323	317	313	307	302	298	290	277	275	277	282	275	268	279	275	271	270	269	271	272	275	277	277	275	271	271	271	271			
14	411	400	404	402	396	392	388	382	377	372	365	358	349	341	334	329	330	331	330	328	324	318	313	307	302	296	288	280	270	267	270	264	254	254	247	248	252	249	257	261	264	268	271	272	267	267	267	267			
15	417	407	414	405	403	397	394	388	382	376	368	360	352	342	333	328	326	329	330	327	323	315	311	304	297	292	287	280	264	254	245	231	228	225	221	227	227	222	224	224	231	246	260	265	262	263	263	263			
16	421	414	418	413	409	407	402	391	382	377	370	363	354	343	334	329	326	326	326	325	321	315	309	302	295	288	284	273	245	228	218	214	215	209	203	207	210	206	207	208	212	217	225	245	251	258	258	258			
17	426	422	421	420	418	413	403	394	384	380	373	366	356	344	334	330	329	328	321	320	318	313	307	299	293	282	274	248	220	213	207	203	201	195	191	194	197	193	195	199	202	209	218	231	243	246	246				
18	432	431	427	425	425	415	407	398	386	387	379	369	359	347	335	330	332	329	317	317	316	310	304	296	289	275	249	219	209	201	196	191	189	185	180	183	186	184	185	185	189	191	197	206	214	226	226	226			
19	440	437	434	433	428	421	413	403	391	385	380	372	362	349	338	333	334	332	318	314	311	308	300	293	280	254	219	208	198	191	187	181	178	175	170	171	176	174	174	176	180	181	188	195	202	212	212	212			
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21	457	459	450	445	438	429	420	411	396	386	383	376	367	356	345	344	342	337	327	317	309	303	297	288	273	234	210	200	189	180	172	166	160	156	152	147	146	151	152	153	156	159	163	171	177	183	190	190	190		
22	468	465	463	450	439	432	425	414	399	385	384	378	369	357	350	348	345	340	331	321	310	301	294	250	216	203	191	180	172	163	156	150	144	141	137	136	140	141	142	145	149	154	162	168	175	181	181	181			
23	477	473	468	457	443	437	428	418	403	386	386	379	371	359	352	350	347	343	335	325	310	301	278	223	206	193	184	171	162	153	145	140	134	131	128	127	130	131	132	135	138	143	152	159	166	173	173	173			
24	487	485	473	461	449	439	430	422	406	386	387	381	373	361	355	351	348	345	336	326	313	300	247	213	196	184	175	162	151	143	136	130	125	122	120	119	121	122	123	126	129	133	141	148	157	165	165	165			
25	507	498	479	467	456	444	435	425	409	386	386	382	374	363	355	351	348	344	336	325	313	281	222	204	187	176	166	152	141	133	126	122	117	114	112	111	113	114	116	118	121	125	131	138	147	157	157	157			
26	543	519	483	472	463	450	440	430	413	386	385	383	376	365	357	352	349	345	336	323	308	251	212	195	179	167	156	142	132	125	119	114	110	107	105	103	106	106	108	110	113	117	123	129	137	148	148	148			
27	620	537	498	478	469	459	445	437	418	386	383	383	376	367	358	352	349	344	334	320	292	224	202	188	171	158	145	133	124	117	111	106	103	100	98	96	99	99	99	103	106	110	115	121	128	138	148	148			
28	787	581	510	482	475	465	449	433	420	388	382	384	378	369	358	352	346	345	332	317	260	212	193	180	168	157	145	135	125	117	109	104	99	96	93	91	90	92	93	94	96	99	103	108	113	121	129	129	129		
29	1462	662	527	491	479	470	454	440	424	390	380	385	379	371	358	352	346	343	330	310	228	203	185	171	154	138	126	117	109	102	97	93	89	86	85	83	86	86	87	90	92	96	101	107	113	121	121	121</			

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file:///C:/ProgramData/PhotometricsPro/temp/RLM - AS10 Shade 72W - Photometric ... 1/14/2020

Luminaire Report Summary

IESNA:LM-63-2002
[LUMCAT] CTR180916-07
[LUMINAIRE] AS10 - 10" Angle Shade
[LAMP] 72W 100W Replacement A19
[TEST] LM-79 Distribution
[TESTLAB] Kichler Lighting LLC
[ISSUEDATE] 12/17/2019
[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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