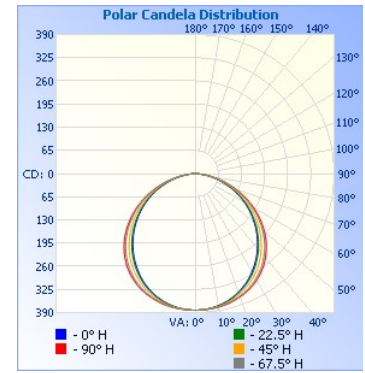


KICHLER®

KICHLER PHOTOMETRIC LAB

Filename: 44247XXLEDYY-Photometric Report

Manufacturer: Kichler Lighting LLC
Luminaire: 44247XXLEDYY Zeo 10" Square
Luminaire Cat: 44247XXLEDYY-Photometric Report
Lamp: Integrated LED AC
Lamp Output: Total luminaire Lumens: 1121.8
Max Candela: 382.9 at Horizontal: 45°, Vertical: 1°
Input Wattage: 18.7
Luminous Opening: Rectangle w/Luminous Sides (L: 7.8", W: 7.8", H: 0.12")
Test: LM-79 Distribution
Test Lab: Kichler Lighting LLC
Photometry : Type C
Nema Type: 7 X 7



Roadway Summary

Cutoff Classification:	CUTOFF
Distribution:	Type VS
Max Cd, 90 Deg Vert:	5.0
Max Cd, 80 to <90 Deg:	47.2
Lumens % Lamp	
Downward Street Side:	560.4 50%
Downward House Side:	560.4 50%
Downward Total:	1,120.8 99.9%
Upward Street Side:	0.5 0%
Upward House Side:	0.5 0%
Upward Total:	1.1 0.1%
Total Lumens:	1,121.9 100%

Flood Summary

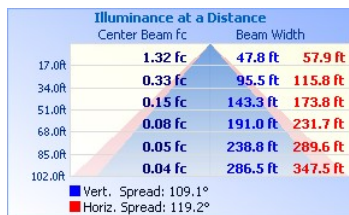
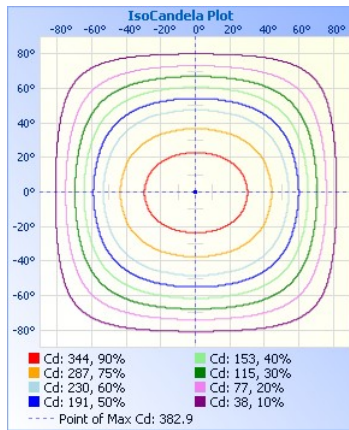
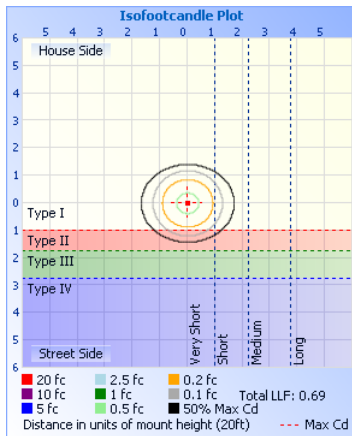
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	98.2%	1,102.1	163.1	160.6
Beam (50%):	74.2%	832.0	119.2	109.1
Total:	100%	1,121.4		

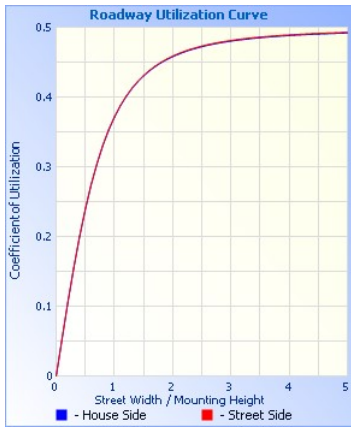
Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	301.2	26.9%
0-40	495.8	44.2%
0-60	880.7	78.5%
60-90	240.0	21.4%
70-100	102.5	9.1%
90-120	1.1	0.1%
0-90	1,120.7	99.9%
90-180	1.1	0.1%
0-180	1,121.8	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	36.3	3.2%	90-100	1.1	0.1%
10-20	104.7	9.3%	100-110	0	0%
20-30	160.2	14.3%	110-120	0	0%
30-40	194.6	17.3%	120-130	0	0%
40-50	202.4	18.0%	130-140	0	0%
50-60	182.5	16.3%	140-150	0	0%
60-70	138.5	12.3%	150-160	0	0%
70-80	78.6	7.0%	160-170	0	0%
80-90	22.8	2.0%	170-180	0	0%





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
RCC: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.02	1.00	1.00
1	1.09	1.04	.99	.96	1.06	1.01	.98	.84	.97	.94	.91	.88	.93	.91	.88	.85	.87	.85	.85	.83	.83
2	.99	.90	.83	.78	.96	.88	.82	.71	.85	.79	.75	.73	.81	.77	.73	.71	.78	.75	.71	.69	.69
3	.90	.79	.71	.64	.87	.78	.70	.60	.75	.68	.63	.61	.72	.66	.61	.58	.69	.64	.60	.58	.58
4	.82	.70	.61	.54	.80	.69	.60	.51	.66	.59	.53	.52	.64	.58	.52	.50	.62	.56	.52	.50	.50
5	.76	.63	.53	.47	.73	.61	.53	.45	.59	.52	.46	.45	.57	.51	.45	.44	.55	.50	.45	.43	.43
6	.70	.56	.47	.41	.68	.55	.47	.39	.53	.46	.40	.40	.52	.45	.40	.39	.50	.44	.39	.37	.37
7	.65	.51	.42	.36	.63	.50	.42	.35	.49	.41	.35	.35	.47	.40	.35	.34	.46	.40	.35	.33	.33
8	.60	.46	.38	.32	.59	.46	.38	.31	.44	.37	.32	.32	.43	.36	.31	.31	.42	.36	.31	.29	.29
9	.56	.43	.34	.29	.55	.42	.34	.28	.41	.34	.29	.29	.40	.33	.28	.28	.39	.33	.28	.26	.26
10	.53	.39	.31	.26	.51	.39	.31	.26	.38	.31	.26	.26	.37	.30	.26	.26	.36	.30	.26	.24	.24

Maximum lm: 0.7
Field lm: 1,102.1
Total lm: 1,121.4

Candela Table - Type C					
	0	22.5	45	67.5	90
0	383	383	383	383	383
1	383	383	383	383	383
2	382	382	382	382	383
3	382	382	382	383	383
4	381	382	382	382	382
5	381	381	381	382	382
6	380	380	381	382	382
7	379	380	380	381	381
8	378	379	380	381	381
9	377	377	379	380	380
10	375	376	378	379	380
11	374	375	377	378	379
12	373	373	375	378	378
13	370	372	374	376	377
14	369	370	372	375	377
15	366	368	371	374	375
16	364	366	369	373	374
17	362	363	367	370	372
18	360	361	365	369	371
19	357	358	363	368	369
20	354	356	361	366	368
21	351	353	358	363	366
22	348	350	356	362	364
23	344	347	353	359	362
24	341	344	350	357	360
25	338	341	347	355	358
26	334	337	344	352	356
27	330	333	341	349	353
28	327	330	338	346	350
29	323	326	334	344	348
30	318	322	331	340	345
31	314	318	327	337	342
32	310	313	323	333	338
33	305	309	319	330	335
34	301	305	315	326	331
35	296	300	311	322	328
36	292	295	306	318	324
37	287	291	302	314	320
38	282	286	297	310	315
39	277	281	292	305	311
40	271	276	287	300	307
41	266	271	283	296	302
42	261	266	277	291	297
43	256	260	272	286	292
44	251	255	267	281	287
45	246	250	261	275	282
46	240	244	256	270	277
47	234	239	250	265	271
48	229	233	245	259	265
49	224	227	239	253	260
50	218	222	233	247	254
51	212	216	228	241	248
52	206	210	221	235	241
53	200	204	215	228	235
54	195	199	210	222	229
55	189	193	203	216	222
56	183	187	197	209	216
57	177	181	191	203	209
58	171	175	185	196	202
59	165	169	178	190	195
60	159	163	172	183	189
61	153	157	166	176	182
62	147	150	159	169	174
63	141	144	153	163	168
64	135	138	146	156	160
65	129	131	139	148	153
66	123	125	133	141	146
67	116	119	126	135	138
68	110	113	120	127	131
69	104	107	113	121	124
70	98	100	106	113	116
71	92	94	100	107	109
72	86	88	93	99	102
73	80	82	87	92	95
74	74	76	81	85	88
75	68	70	74	79	81
76	62	64	68	72	74
77	56	58	62	66	67
78	51	52	56	59	60
79	45	47	50	53	54

80	40	41	44	47	47
81	35	36	39	41	41
82	30	31	34	35	36
83	25	27	29	30	30
84	21	22	24	25	25
85	17	18	20	21	21
86	14	15	16	16	16
87	10	11	12	13	12
88	7	8	9	9	9
89	5	6	6	7	6
90	3	4	5	5	5
91	3	3	4	4	3
92	2	2	2	2	3
93	1	1	1	1	2
94	1	1	0	1	1
95	0	0	0	0	0
96	0	0	0	0	0
97	0	0	0	0	0
98	0	0	0	0	0
99	0	0	0	0	0
100	0	0	0	0	0
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123	0	0	0	0	0
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157	0	0	0	0	0
158	0	0	0	0	0
159	0	0	0	0	0
160	0	0	0	0	0
161	0	0	0	0	0
162	0	0	0	0	0

163	0	0	0	0	0
164	0	0	0	0	0
165	0	0	0	0	0
166	0	0	0	0	0
167	0	0	0	0	0
168	0	0	0	0	0
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174	0	0	0	0	0
175	0	0	0	0	0
176	0	0	0	0	0
177	0	0	0	0	0
178	0	0	0	0	0
179	0	0	0	0	0
180	0	0	0	0	0

Luminaire Report Summary

IESNA:LM-63-2002
[LUMCAT] 44247XXLEDYY-Photometric Report
[LUMINAIRE] 44247XXLEDYY Zeo 10" Square
[LAMP] Integrated LED AC
[TEST] LM-79 Distribution
[TESTLAB] Kichler Lighting LLC
[ISSUEDATE] 8/1/2019
[MANUFAC] Kichler Lighting LLC

FILE: CREATED USING ABSOLUTE PHOTOMETRY
FILE: CANDELA MULTIPLIER: 1
FILE: VERTICAL ANGLES: 181, HORIZONTAL ANGLES: 5
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.