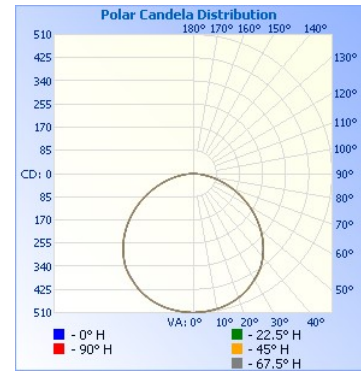


KICHLER®

KICHLER PHOTOMETRIC LAB

Filename: 44248XXLEDYY-Photmetric Report

Manufacturer: Kichler Lighting LLC
 Luminaire: 44248XXLEDYY Zeo 13" Round
 Luminaire Cat: CTR180730-05
 Lamp: Integrated LED AC
 Lamp Output: Total luminaire Lumens: 1536.6
 Max Candela: 509.3 at Horizontal: 0°, Vertical: 0°
 Input Wattage: 23.9
 Luminous Opening: Ellipsoidal Spheroid (L: 10.8", W: 10.8", 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:	4.3
Max Cd, 80 to <90 Deg:	63.1
Lumens % Lamp	
Downward Street Side:	767.9 50%
Downward House Side:	767.9 50%
Downward Total:	1,535.8 99.9%
Upward Street Side:	0.5 0%
Upward House Side:	0.5 0%
Upward Total:	0.9 0.1%
Total Lumens:	1,536.7 100%

Flood Summary

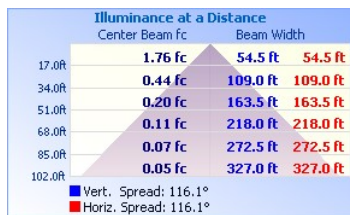
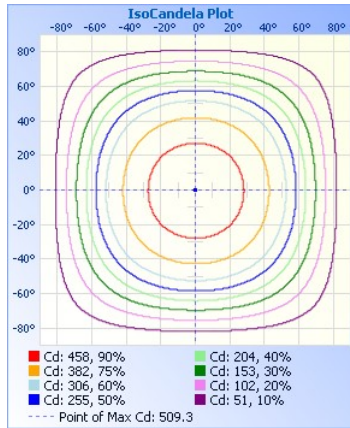
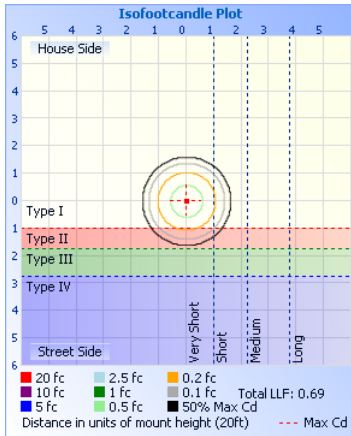
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	98.4%	1,512.7	163.3	163.1
Beam (50%):	75.4%	1,158.3	116.1	116.1
Total:	100%	1,536.1		

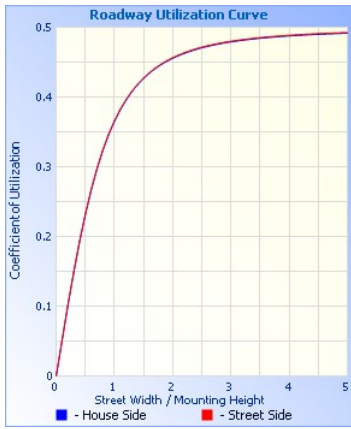
Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	404.5	26.3%
0-40	671.2	43.7%
0-60	1,203.1	78.3%
60-90	332.6	21.6%
70-100	143.0	9.3%
90-120	0.9	0.1%
0-90	1,535.7	99.9%
90-180	0.9	0.1%
0-180	1,536.6	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	48.3	3.1%	90-100	0.9	0.1%
10-20	140.1	9.1%	100-110	0	0%
20-30	216.1	14.1%	110-120	0	0%
30-40	266.7	17.4%	120-130	0	0%
40-50	279.8	18.2%	130-140	0	0%
50-60	252.0	16.4%	140-150	0	0%
60-70	190.5	12.4%	150-160	0	0%
70-80	109.6	7.1%	160-170	0	0%
80-90	32.5	2.1%	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	.95	1.06	1.01	.97	.84	.97	.94	.91	.88	.93	.90	.88	.85	.87	.85	.85	.83	.83
2	.99	.90	.83	.77	.96	.88	.82	.70	.85	.79	.75	.73	.81	.77	.73	.78	.75	.71	.71	.69	.69
3	.90	.79	.71	.64	.87	.77	.70	.60	.74	.68	.62	.62	.72	.66	.61	.69	.64	.60	.60	.58	.58
4	.82	.70	.61	.54	.80	.68	.60	.51	.66	.59	.53	.53	.64	.57	.52	.61	.56	.51	.51	.49	.49
5	.75	.62	.53	.46	.73	.61	.53	.44	.59	.51	.46	.46	.57	.50	.45	.55	.49	.45	.45	.42	.42
6	.69	.56	.47	.40	.68	.55	.46	.39	.53	.46	.40	.40	.51	.45	.39	.50	.44	.39	.39	.37	.37
7	.64	.51	.42	.36	.63	.50	.41	.35	.48	.41	.35	.35	.47	.40	.35	.45	.39	.35	.35	.33	.33
8	.60	.46	.38	.32	.58	.45	.37	.31	.44	.37	.31	.31	.43	.36	.31	.42	.36	.31	.31	.29	.29
9	.56	.42	.34	.28	.54	.42	.34	.28	.41	.33	.28	.28	.39	.33	.28	.38	.32	.28	.28	.26	.26
10	.52	.39	.31	.26	.51	.39	.31	.25	.37	.30	.26	.26	.37	.30	.25	.36	.30	.25	.25	.24	.24

Maximum lm: 1.0
Field lm: 1,512.7
Total lm: 1,536.1

Candela Table - Type C

	0	22.5	45	67.5	90
0	509	509	509	509	509
1	509	509	509	509	509
2	508	509	509	509	508
3	508	508	508	509	508
4	508	508	508	508	508
5	508	508	508	507	507
6	507	507	507	507	506
7	506	506	506	506	506
8	505	506	505	505	505
9	504	504	504	505	504
10	503	503	503	503	503
11	502	502	502	502	502
12	501	501	501	501	501
13	499	499	499	499	499
14	497	498	498	498	498
15	496	496	496	496	496
16	494	493	494	494	494
17	492	492	492	492	492
18	489	489	489	490	490
19	487	487	487	487	487
20	484	484	484	485	485
21	481	482	481	482	482
22	479	478	479	479	479
23	475	476	475	476	476
24	472	472	472	473	473
25	468	469	469	469	470
26	465	465	465	466	465
27	461	461	461	462	461
28	457	457	458	457	457
29	452	453	453	453	453
30	448	448	449	449	449
31	443	446	446	445	446
32	440	441	441	441	441
33	436	436	437	436	437
34	430	432	432	431	432
35	427	428	427	428	428
36	421	422	422	422	422
37	415	416	417	417	416
38	409	410	411	410	410
39	403	404	404	404	404
40	397	398	398	398	398
41	390	391	392	391	391
42	383	384	385	385	385
43	377	377	377	378	377
44	370	370	371	371	370
45	362	363	364	363	363
46	355	355	356	356	355
47	347	348	349	349	348
48	339	340	341	341	340
49	331	333	333	332	332
50	323	324	325	324	324
51	315	316	317	316	316
52	307	308	308	308	307
53	298	299	300	299	299
54	290	291	291	291	290
55	282	282	283	282	282
56	273	274	274	273	273
57	264	265	265	265	264
58	255	256	257	256	255
59	246	247	247	247	246
60	237	238	239	238	237
61	228	229	229	229	228
62	219	220	220	220	219
63	210	211	211	211	210
64	201	201	202	202	201
65	192	192	193	192	192
66	183	183	184	184	183
67	174	174	175	174	174
68	165	165	166	165	165
69	155	156	156	156	156
70	146	147	147	147	147
71	138	138	139	138	138
72	129	129	130	129	129
73	120	121	121	121	120
74	111	112	112	112	112
75	103	103	103	103	103
76	94	95	95	95	95
77	86	86	87	87	87
78	78	78	79	79	78
79	70	71	71	71	71

80	62	63	63	63	63
81	55	55	55	56	56
82	48	48	48	48	49
83	41	41	41	41	42
84	35	34	35	35	35
85	28	28	28	28	29
86	22	22	22	22	23
87	16	16	17	17	17
88	12	12	12	12	12
89	7	7	7	7	7
90	4	4	4	4	4
91	3	3	3	3	3
92	2	2	2	2	2
93	1	1	1	1	1
94	0	0	0	0	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
101	0	0	0	0	0
102	0	0	0	0	0
103	0	0	0	0	0
104	0	0	0	0	0
105	0	0	0	0	0
106	0	0	0	0	0
107	0	0	0	0	0
108	0	0	0	0	0
109	0	0	0	0	0
110	0	0	0	0	0
111	0	0	0	0	0
112	0	0	0	0	0
113	0	0	0	0	0
114	0	0	0	0	0
115	0	0	0	0	0
116	0	0	0	0	0
117	0	0	0	0	0
118	0	0	0	0	0
119	0	0	0	0	0
120	0	0	0	0	0
121	0	0	0	0	0
122	0	0	0	0	0
123	0	0	0	0	0
124	0	0	0	0	0
125	0	0	0	0	0
126	0	0	0	0	0
127	0	0	0	0	0
128	0	0	0	0	0
129	0	0	0	0	0
130	0	0	0	0	0
131	0	0	0	0	0
132	0	0	0	0	0
133	0	0	0	0	0
134	0	0	0	0	0
135	0	0	0	0	0
136	0	0	0	0	0
137	0	0	0	0	0
138	0	0	0	0	0
139	0	0	0	0	0
140	0	0	0	0	0
141	0	0	0	0	0
142	0	0	0	0	0
143	0	0	0	0	0
144	0	0	0	0	0
145	0	0	0	0	0
146	0	0	0	0	0
147	0	0	0	0	0
148	0	0	0	0	0
149	0	0	0	0	0
150	0	0	0	0	0
151	0	0	0	0	0
152	0	0	0	0	0
153	0	0	0	0	0
154	0	0	0	0	0
155	0	0	0	0	0
156	0	0	0	0	0
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
169	0	0	0	0	0
170	0	0	0	0	0
171	0	0	0	0	0
172	0	0	0	0	0
173	0	0	0	0	0
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
[TEST] LM-79 Distribution
[TESTLAB] Kichler Lighting LLC
[ISSUEDATE] 7/12/2019
[MANUFAC] Kichler Lighting LLC
[LUMCAT] CTR180730-05
[LUMINAIRE] 44248XXLEDYY Zeo 13" Round
[LAMP] Integrated LED AC

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

Photometrics Pro 1.3.29 copyright 2003-2019 by jSolutions, Inc.
Reported data calculated from manufacturer's data file, based on IES recommended methods.