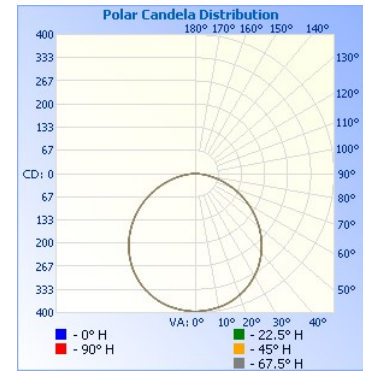


KICHLER®

KICHLER PHOTOMETRIC LAB

Filename: 44246XXLEDYY-Photometric Report

Manufacturer: Kichler Lighting LLC
 Luminaire: 44246XXLEDYY Zeo 10" Round
 Luminaire Cat: CTR180730-03
 Lamp: Integrated LED AC
 Lamp Output: Total luminaire Lumens: 1157.3
 Max Candela: 396.3 at Horizontal: 0°, Vertical: 1°
 Input Wattage: 18.8
 Luminous Opening: Ellipsoidal Spheroid (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:	6.2
Max Cd, 80 to <90 Deg:	46.4
Lumens % Lamp	
Downward Street Side:	577.5 49.9%
Downward House Side:	577.5 49.9%
Downward Total:	1,154.9 99.8%
Upward Street Side:	1.2 0.1%
Upward House Side:	1.2 0.1%
Upward Total:	2.5 0.2%
Total Lumens:	1,157.4 100%

Flood Summary

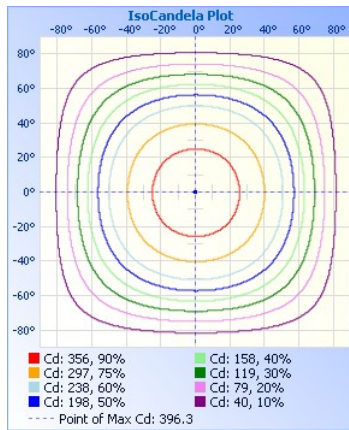
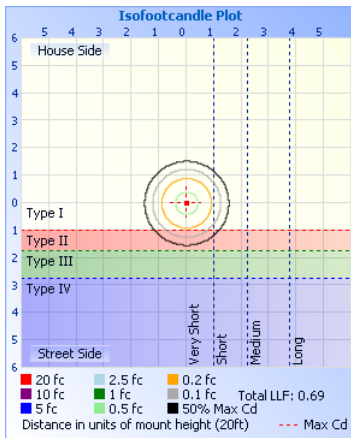
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	98.1%	1,135.6	162.3	162.4
Beam (50%):	73.7%	852.4	113.7	113.6
Total:	100%	1,156.9		

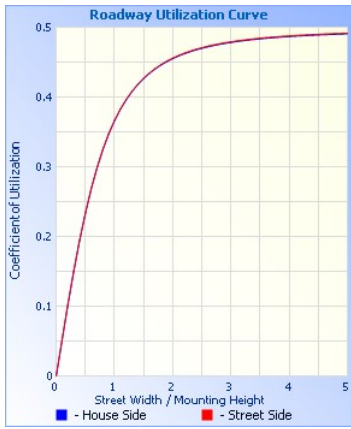
Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	310.4	26.8%
0-40	510.4	44.1%
0-60	905.7	78.3%
60-90	249.2	21.5%
70-100	109.0	9.4%
90-120	2.5	0.2%
0-90	1,154.8	99.8%
90-180	2.5	0.2%
0-180	1,157.3	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	37.5	3.2%	90-100	2.5	0.2%
10-20	108.0	9.3%	100-110	0	0%
20-30	164.9	14.2%	110-120	0	0%
30-40	200.0	17.3%	120-130	0	0%
40-50	207.8	18.0%	130-140	0	0%
50-60	187.5	16.2%	140-150	0	0%
60-70	142.6	12.3%	150-160	0	0%
70-80	81.8	7.1%	160-170	0	0%
80-90	24.7	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	.89	.87	.85	.83	.83
2	.99	.90	.83	.77	.96	.88	.82	.70	.85	.79	.75	.73	.81	.77	.73	.78	.75	.71	.69	.69	.69
3	.90	.79	.71	.64	.87	.77	.70	.60	.74	.68	.62	.62	.72	.66	.61	.69	.64	.60	.58	.58	.58
4	.82	.70	.61	.54	.80	.69	.60	.51	.66	.59	.53	.53	.64	.57	.52	.61	.56	.52	.49	.49	.49
5	.75	.62	.53	.47	.73	.61	.53	.45	.59	.52	.46	.46	.57	.51	.45	.55	.49	.45	.43	.43	.43
6	.70	.56	.47	.41	.68	.55	.47	.39	.53	.46	.40	.40	.52	.45	.40	.50	.44	.39	.37	.37	.37
7	.65	.51	.42	.36	.63	.50	.42	.35	.49	.41	.35	.35	.47	.40	.35	.46	.40	.35	.33	.33	.33
8	.60	.46	.38	.32	.58	.46	.38	.31	.44	.37	.32	.32	.43	.36	.31	.42	.36	.31	.29	.29	.29
9	.56	.43	.34	.29	.55	.42	.34	.28	.41	.34	.28	.28	.40	.33	.28	.39	.33	.28	.26	.26	.26
10	.53	.39	.31	.26	.51	.39	.31	.25	.38	.31	.26	.26	.37	.30	.26	.36	.30	.26	.24	.24	.24

Maximum lm: 0.8
Field lm: 1,135.6
Total lm: 1,156.9

Candela Table - Type C

	0	22.5	45	67.5	90
0	396	396	396	396	396
1	396	396	396	396	396
2	396	396	395	396	395
3	395	395	395	395	395
4	395	395	395	395	394
5	394	394	395	394	394
6	394	394	394	394	393
7	393	393	393	393	392
8	392	392	392	392	392
9	391	391	391	391	390
10	390	390	390	390	390
11	389	389	389	389	389
12	388	388	388	387	388
13	386	386	386	386	385
14	385	384	384	384	384
15	383	383	383	383	383
16	381	381	381	381	381
17	379	379	379	379	378
18	377	376	377	376	376
19	374	374	374	374	374
20	372	372	372	372	371
21	369	369	370	369	369
22	366	367	367	366	366
23	364	364	364	364	364
24	361	361	361	361	360
25	358	358	358	358	357
26	355	355	355	354	354
27	352	352	352	351	351
28	348	348	348	348	347
29	345	345	344	344	344
30	340	340	341	341	340
31	337	337	337	337	336
32	333	333	332	332	332
33	329	329	328	328	328
34	325	324	324	324	324
35	320	320	320	320	319
36	315	316	316	315	315
37	310	310	311	311	310
38	306	306	306	306	306
39	301	301	301	301	301
40	296	296	297	296	296
41	291	291	291	291	290
42	285	286	286	286	286
43	280	281	281	281	280
44	275	275	275	275	275
45	270	270	270	270	270
46	264	264	264	264	263
47	258	258	259	258	258
48	252	252	253	253	252
49	246	247	247	247	247
50	240	240	241	241	240
51	234	235	235	235	234
52	228	229	229	229	228
53	221	222	223	222	222
54	216	216	217	216	216
55	209	210	211	210	210
56	203	203	204	204	203
57	197	197	197	197	197
58	190	191	191	191	190
59	184	184	184	184	184
60	177	178	178	178	178
61	170	171	171	172	171
62	163	164	165	165	164
63	157	158	158	158	158
64	150	151	151	151	151
65	143	144	145	144	144
66	137	137	138	137	137
67	130	131	131	131	131
68	123	124	124	124	124
69	117	117	117	117	117
70	110	110	111	111	110
71	103	104	104	104	104
72	96	97	97	97	97
73	90	90	91	91	90
74	83	84	84	84	84
75	77	77	77	77	77
76	70	71	71	71	71
77	64	64	65	65	64
78	58	58	58	58	58
79	52	52	52	52	52

80	46	46	46	46	46
81	41	41	41	41	40
82	36	36	36	35	35
83	31	30	30	30	30
84	26	26	26	25	25
85	21	21	21	21	21
86	17	17	17	17	17
87	13	13	13	13	13
88	10	10	10	10	10
89	7	7	7	8	7
90	6	6	6	6	6
91	5	5	6	6	5
92	5	5	5	5	5
93	4	4	4	4	4
94	3	3	3	3	3
95	2	2	2	2	2
96	1	1	1	1	1
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
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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
169	0	0	0	0	0
170	0	0	0	0	0
171	0	0	0	0	0
172	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
[TEST] LM-79 Distribution
[TESTLAB] Kichler Lighting LLC
[ISSUEDATE] 7/12/2019
[MANUFAC] Kichler Lighting LLC
[LUMCAT] CTR180730-03
[LUMINAIRE] 44246XXLEDYY Zeo 10" 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

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