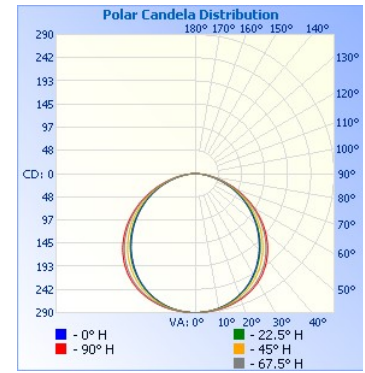


KICHLER®

KICHLER PHOTOMETRIC LAB

Filename: 44245XXLEDYY-Photometric Report
Manufacturer: Kichler Lighting LLC
Luminaire: 44245XXLEDYY Zeo 7" Square
Luminaire Cat: CTR180730-02
Lamp: Integrated LED AC
Lamp Output: Total luminaire Lumens: 853.6
Max Candela: 289.7 at Horizontal: 0°, Vertical: 0°
Input Wattage: 13.9
Luminous Opening: Rectangle w/Luminous Sides (L: 5.16", W: 5.16", 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:	37.0
Lumens % Lamp	
Downward Street Side:	426.2 49.9%
Downward House Side:	426.2 49.9%
Downward Total:	852.4 99.9%
Upward Street Side:	0.6 0.1%
Upward House Side:	0.6 0.1%
Upward Total:	1.3 0.1%
Total Lumens:	853.7 100%

Flood Summary

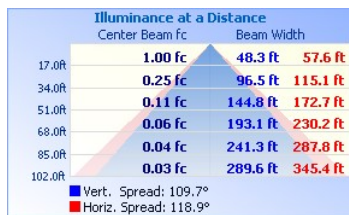
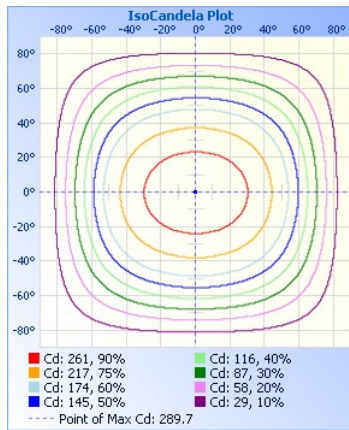
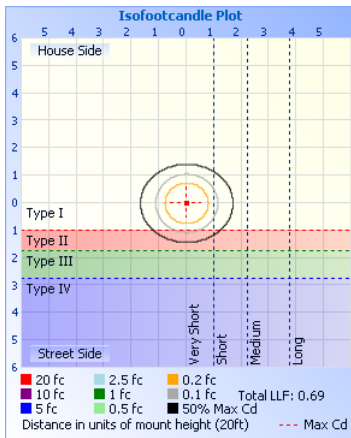
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	98.2%	838.4	163.6	161.4
Beam (50%):	74%	631.2	118.9	109.7
Total:	100%	853.3		

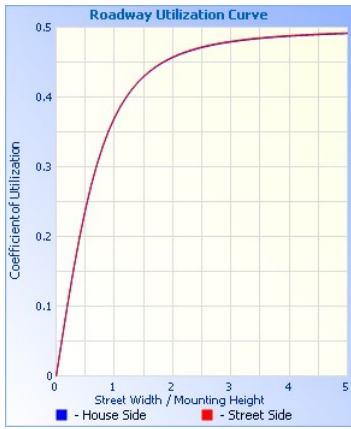
Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	228.4	26.8%
0-40	376.3	44.1%
0-60	668.5	78.3%
60-90	183.8	21.5%
70-100	80.3	9.4%
90-120	1.3	0.1%
0-90	852.3	99.9%
90-180	1.3	0.1%
0-180	853.6	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	27.5	3.2%	90-100	1.3	0.1%
10-20	79.3	9.3%	100-110	0	0%
20-30	121.6	14.2%	110-120	0	0%
30-40	147.9	17.3%	120-130	0	0%
40-50	153.8	18.0%	130-140	0	0%
50-60	138.4	16.2%	140-150	0	0%
60-70	104.8	12.3%	150-160	0	0%
70-80	60.3	7.1%	160-170	0	0%
80-90	18.7	2.2%	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	0	50	30	20	0	50	30	20	0	
RCR: 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	1.09	1.04	.99	.95	1.06	1.01	.97	.84	.97	.94	.91	.83	.93	.90	.88	.85	.89	.87	.85	.83	
2	.99	.90	.83	.77	.96	.88	.82	.70	.85	.79	.75	.71	.81	.77	.73	.71	.78	.75	.71	.69	
3	.90	.79	.71	.64	.87	.77	.70	.60	.74	.68	.62	.58	.72	.66	.61	.58	.69	.64	.60	.58	
4	.82	.70	.61	.54	.80	.69	.60	.51	.66	.59	.53	.50	.64	.57	.52	.50	.62	.56	.52	.49	
5	.75	.62	.53	.47	.73	.61	.53	.45	.59	.52	.46	.44	.57	.51	.45	.44	.55	.49	.45	.43	
6	.70	.56	.47	.41	.68	.55	.47	.39	.53	.46	.40	.39	.52	.45	.40	.39	.50	.44	.39	.37	
7	.65	.51	.42	.36	.63	.50	.42	.35	.48	.41	.35	.35	.47	.40	.35	.35	.46	.40	.35	.33	
8	.60	.46	.38	.32	.58	.46	.38	.31	.44	.37	.32	.32	.43	.36	.31	.31	.42	.36	.31	.29	
9	.56	.43	.34	.29	.55	.42	.34	.28	.41	.34	.28	.28	.40	.33	.28	.28	.39	.33	.28	.26	
10	.53	.39	.31	.26	.51	.39	.31	.25	.38	.31	.26	.26	.37	.30	.26	.26	.36	.30	.26	.24	

Maximum lm: 0.6
Field lm: 838.4
Total lm: 853.3

Candela Table - Type C

	0	22.5	45	67.5	90
0	290	290	290	290	290
1	290	290	290	290	290
2	289	290	290	290	290
3	289	289	289	289	289
4	289	289	289	289	289
5	288	288	289	289	289
6	288	288	288	289	289
7	287	287	288	288	288
8	286	287	287	288	288
9	286	286	286	287	288
10	285	285	286	287	287
11	284	284	285	286	287
12	282	283	284	286	286
13	281	282	283	285	285
14	280	280	282	284	285
15	278	279	281	283	284
16	277	277	279	282	283
17	275	276	278	281	282
18	273	274	276	280	281
19	271	272	275	278	280
20	269	270	273	277	279
21	267	268	271	275	277
22	265	266	269	274	276
23	262	264	268	272	275
24	260	261	266	271	273
25	257	259	263	269	271
26	255	256	261	267	270
27	252	254	259	265	268
28	249	251	256	263	266
29	246	248	254	260	264
30	243	245	251	258	261
31	240	242	248	256	259
32	237	239	245	253	257
33	233	235	242	250	254
34	230	232	239	247	252
35	226	228	236	245	248
36	223	225	232	241	246
37	219	222	229	238	243
38	215	218	226	235	239
39	212	214	222	231	236
40	208	210	219	228	233
41	204	206	215	224	229
42	200	202	211	221	225
43	196	198	207	217	222
44	192	194	203	213	218
45	188	190	199	209	214
46	183	186	194	205	209
47	179	182	190	200	205
48	175	178	186	196	201
49	171	173	182	191	196
50	166	169	177	187	192
51	162	164	173	182	187
52	158	160	168	178	182
53	153	156	163	173	177
54	149	151	159	168	173
55	144	147	154	163	168
56	140	142	149	158	163
57	135	137	145	153	157
58	130	133	140	148	152
59	126	128	135	143	147
60	121	123	130	138	142
61	117	119	125	133	137
62	112	114	120	128	131
63	107	109	116	122	126
64	103	105	111	117	120
65	98	100	106	112	115
66	93	95	101	107	109
67	89	91	96	101	104
68	84	86	91	96	99
69	79	81	86	91	93
70	75	77	81	85	88
71	70	72	76	80	82
72	66	67	71	75	77
73	61	63	66	70	72
74	56	58	62	65	66
75	52	54	57	60	61
76	48	49	52	55	56
77	44	45	48	50	51
78	40	41	44	46	46
79	36	37	39	41	42

80	32	33	35	37	37
81	28	29	31	32	32
82	24	25	27	28	28
83	20	22	23	24	24
84	17	18	20	20	20
85	14	15	16	17	16
86	11	12	13	14	13
87	9	10	11	11	10
88	6	7	8	8	7
89	4	6	6	6	5
90	3	4	5	5	4
91	3	3	4	4	4
92	2	2	3	3	3
93	2	2	2	2	2
94	1	1	1	1	1
95	1	0	0	0	1
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
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164	0	0	0	0	0
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167	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] 7/11/2019
[MANUFAC] Kichler Lighting LLC
[LUMCAT] CTR180730-02
[LUMINAIRE] 44245XXLEDYY Zeo 7" Square
[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.