

KICHLER®

KICHLER PHOTOMETRIC LAB

Filename: 44249XXLEDYY-Photometric Report

Manufacturer: Kichler Lighting LLC

Luminaire: 44249XXLEDYY Zeo 13" Square

Luminaire Cat: CTR180730-06

Lamp: Integrated LED AC

Lamp Output: Total luminaire Lumens: 1624.9

Max Candela: 544.4 at Horizontal: 90°, Vertical: 1°

Input Wattage: 25.1

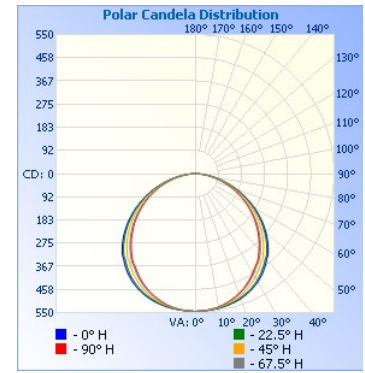
Luminous Opening: Rectangle w/Luminous Sides (L: 10.44", W: 10.44", H: 0.12")

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:	4.6
Max Cd, 80 to <90 Deg:	73.0
Lumens % Lamp	
Downward Street Side:	812.2 50%
Downward House Side:	812.2 50%
Downward Total:	1,624.4 100%
Upward Street Side:	0.3 0%
Upward House Side:	0.3 0%
Upward Total:	0.7 0%
Total Lumens:	1,625.0 100%

Flood Summary

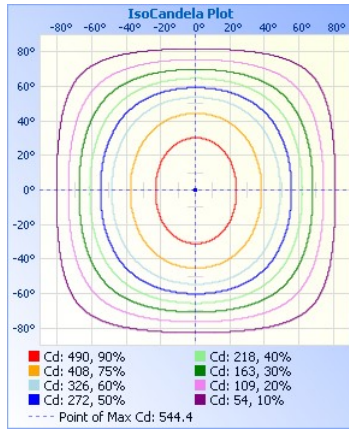
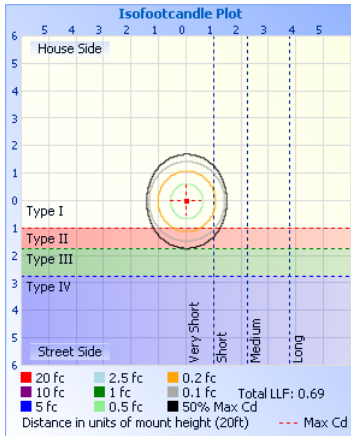
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	98.4%	1,599.5	161.8	164.4
Beam (50%):	74.7%	1,214.4	110.5	119.7
Total:	100%	1,624.3		

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	429.9	26.5%
0-40	710.0	43.7%
0-60	1,269.3	78.1%
60-90	354.9	21.8%
70-100	153.7	9.5%
90-120	0.7	0%
0-90	1,624.2	100%
90-180	0.7	0%
0-180	1,624.9	100%

Lumens Per Zone

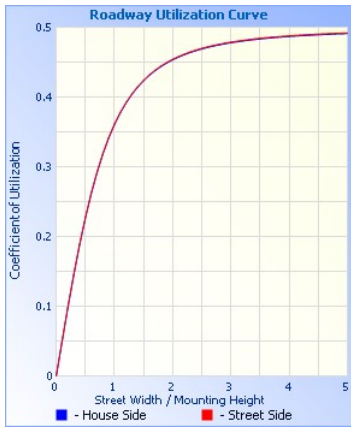
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	51.6	3.2%	90-100	0.7	0%
10-20	149.2	9.2%	100-110	0	0%
20-30	229.1	14.1%	110-120	0	0%
30-40	280.0	17.2%	120-130	0	0%
40-50	294.0	18.1%	130-140	0	0%
50-60	265.3	16.3%	140-150	0	0%
60-70	201.9	12.4%	150-160	0	0%
70-80	117.4	7.2%	160-170	0	0%
80-90	35.6	2.2%	170-180	0	0%



Illuminance at a Distance

Distance	Center Beam fc	Beam Width
17.0ft	1.88 fc	58.5 ft 49.0 ft
34.0ft	0.47 fc	117.1 ft 98.1 ft
51.0ft	0.21 fc	175.6 ft 147.1 ft
68.0ft	0.12 fc	234.2 ft 196.2 ft
85.0ft	0.08 fc	292.7 ft 245.2 ft
102.0ft	0.05 fc	351.3 ft 294.3 ft

Vert. Spread: 119.7°
 Horiz. Spread: 110.5°



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	1.08	1.04	.99	.95	1.06	1.01	.97	.84	.97	.94	.91	.88	.93	.90	.88	.85	.89	.87	.85	.83	.83
2	.98	.90	.83	.77	.96	.88	.82	.70	.85	.79	.75	.73	.81	.77	.73	.71	.78	.74	.71	.69	.69
3	.90	.79	.71	.64	.87	.77	.70	.60	.74	.68	.62	.61	.72	.66	.61	.58	.69	.64	.60	.58	.58
4	.82	.70	.61	.54	.80	.68	.60	.51	.66	.59	.53	.52	.64	.57	.52	.49	.61	.56	.51	.49	.49
5	.75	.62	.53	.46	.73	.61	.53	.44	.59	.51	.46	.45	.57	.50	.45	.42	.55	.49	.45	.42	.42
6	.69	.56	.47	.40	.68	.55	.46	.39	.53	.46	.40	.39	.51	.45	.39	.37	.50	.44	.39	.37	.37
7	.64	.51	.42	.36	.63	.50	.41	.35	.48	.41	.35	.35	.47	.40	.35	.33	.45	.39	.35	.33	.33
8	.60	.46	.38	.32	.58	.46	.37	.31	.44	.37	.31	.31	.43	.36	.31	.29	.42	.36	.31	.29	.29
9	.56	.42	.34	.28	.54	.42	.34	.28	.41	.33	.28	.28	.40	.33	.28	.26	.38	.32	.28	.26	.26
10	.52	.39	.31	.26	.51	.39	.31	.25	.38	.30	.26	.26	.37	.30	.25	.24	.36	.30	.25	.24	.24

Maximum lm: 1.0
Field lm: 1,599.5
Total lm: 1,624.3

Candela Table - Type C

	0	22.5	45	67.5	90
0	544	544	544	544	544
1	544	544	544	544	544
2	544	544	544	543	543
3	544	543	544	543	543
4	543	543	543	543	542
5	543	542	542	542	542
6	543	542	542	540	540
7	542	542	540	539	539
8	541	541	539	539	538
9	541	540	538	537	536
10	540	539	537	535	534
11	540	538	536	533	532
12	539	537	534	531	530
13	537	535	533	529	527
14	536	535	531	526	525
15	535	533	528	524	522
16	533	531	526	521	519
17	532	529	523	518	515
18	530	527	521	515	512
19	528	525	518	511	508
20	526	522	515	507	504
21	524	520	512	504	500
22	521	517	508	500	496
23	519	514	505	495	492
24	515	511	501	491	487
25	513	508	497	486	482
26	510	505	493	482	477
27	506	500	488	476	472
28	503	497	484	471	466
29	498	493	479	466	461
30	495	488	474	460	455
31	490	483	469	455	449
32	485	479	463	449	443
33	481	474	458	442	437
34	476	468	452	436	433
35	470	463	446	433	428
36	464	457	440	428	422
37	459	451	434	421	415
38	453	445	432	415	408
39	447	439	425	408	401
40	440	435	418	400	393
41	436	430	411	393	386
42	431	422	404	386	379
43	424	415	396	378	371
44	416	408	389	371	364
45	408	400	381	363	356
46	401	392	373	355	348
47	391	384	365	348	340
48	383	375	357	339	332
49	375	367	349	331	324
50	366	358	341	323	316
51	357	350	332	315	308
52	348	341	323	306	300
53	339	332	315	298	291
54	329	322	306	289	283
55	320	313	297	281	274
56	310	304	288	272	266
57	300	294	279	264	257
58	291	284	270	255	249
59	281	274	261	246	240
60	271	265	252	238	232
61	260	255	242	228	223
62	251	245	233	219	214
63	240	235	223	211	205
64	229	225	214	201	197
65	219	215	204	193	188
66	210	205	195	184	179
67	199	195	186	175	170
68	189	185	176	166	161
69	179	175	167	157	152
70	169	166	158	148	144
71	158	156	148	139	135
72	148	146	139	131	126
73	138	136	129	122	118
74	128	127	121	113	109
75	119	117	111	105	101
76	109	108	103	96	93
77	100	99	94	88	84
78	91	90	85	80	76
79	82	81	77	72	69

80	73	72	69	64	61
81	64	64	61	56	54
82	56	56	53	49	46
83	48	48	46	42	40
84	40	41	39	35	33
85	33	34	32	29	27
86	26	27	26	23	21
87	20	21	20	17	15
88	14	15	14	12	10
89	9	9	9	8	6
90	4	5	5	4	3
91	3	3	3	2	2
92	2	1	1	1	1
93	1	1	0	0	0
94	0	0	0	0	0
95	0	0	0	0	0
96	0	0	0	0	0
97	0	0	0	0	0
98	0	0	0	0	0
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146	0	0	0	0	0
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149	0	0	0	0	0
150	0	0	0	0	0
151	0	0	0	0	0
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153	0	0	0	0	0
154	0	0	0	0	0
155	0	0	0	0	0
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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
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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] CTR180730-06
[LUMINAIRE] 44249XXLEDYY Zeo 13" 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.