

KICHLER®

KICHLER PHOTOMETRIC LAB

Filename: 43878XXLEDYY-Photometric Report**Manufacturer:** Kichler Lighting LLC**Luminaire:** 43878XXLEDYY Gen 1 Small Downlight**Luminaire Cat:** CTR180730-10**Lamp:** Integrated LED AC**Lamp Output:** Total luminaire Lumens: 689.7**Max Candela:** 246.6 at Horizontal: 145°, Vertical: 1°**Input Wattage:** 11.5**Luminous Opening:** Ellipsoidal Spheroid (L: 3.6", W: 3.6", H: 0.24")**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:	12.9
Max Cd, 80 to <90 Deg:	36.0
Lumens % Lamp	
Downward Street Side:	338.8 49.1%
Downward House Side:	343.8 49.9%
Downward Total:	682.7 99%
Upward Street Side:	3.4 0.5%
Upward House Side:	3.7 0.5%
Upward Total:	7.1 1%
Total Lumens:	689.8 100%

Zonal Lumen Summary

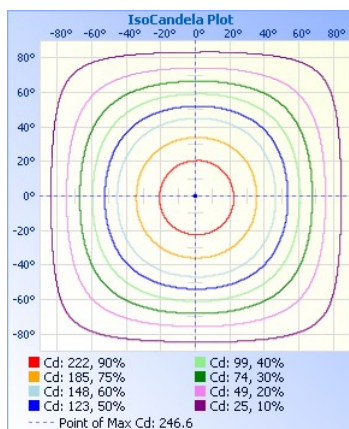
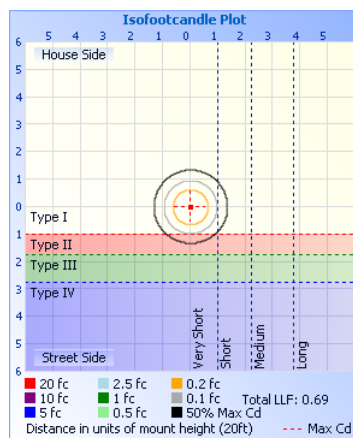
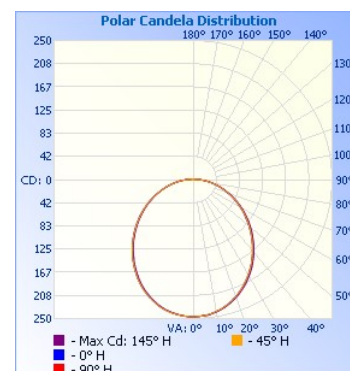
Zone	Lumens	% Luminaire
0-30	187.6	27.2%
0-40	303.0	43.9%
0-60	524.0	76%
60-90	158.6	23%
70-100	83.9	12.2%
90-120	7.1	1%
0-90	682.6	99%
90-180	7.1	1%
0-180	689.7	100%

Flood Summary

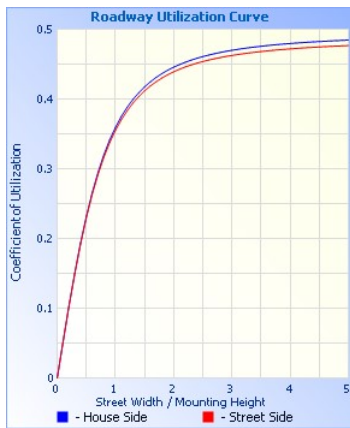
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97.3%	670.7	168.2	168
Beam (50%):	65.6%	452.4	106.2	106
Total:	100%	689.5		

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	23.3	3.4%	90-100	6.5	0.9%
10-20	66.1	9.6%	100-110	0.6	0.1%
20-30	98.2	14.2%	110-120	0.0	0%
30-40	115.4	16.7%	120-130	0	0%
40-50	116.8	16.9%	130-140	0	0%
50-60	104.2	15.1%	140-150	0	0%
60-70	81.2	11.8%	150-160	0	0%
70-80	52.5	7.6%	160-170	0	0%
80-90	25.0	3.6%	170-180	0	0%



Illuminance at a Distance			
	Center Beam fc	Beam Width	
17.0 ft	0.85 fc	45.1 ft	45.3 ft
34.0 ft	0.21 fc	90.2 ft	90.6 ft
51.0 ft	0.09 fc	135.3 ft	135.9 ft
68.0 ft	0.05 fc	180.4 ft	181.2 ft
85.0 ft	0.03 fc	225.4 ft	226.5 ft
102.0 ft	0.02 fc	270.5 ft	271.7 ft
Vert. Spread: 106.0°			
Horiz. Spread: 106.2°			



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
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	.99	1.11	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	1.01	.99	
1	1.08	1.03	.98	.94	1.05	1.00	.96	.82	.96	.92	.89	.86	.92	.89	.86	.88	.86	.84	.81	.81	
2	.98	.89	.82	.76	.95	.87	.81	.69	.84	.78	.73	.67	.80	.75	.71	.77	.73	.70	.67	.67	
3	.89	.78	.70	.63	.87	.77	.69	.58	.74	.67	.61	.55	.71	.65	.60	.68	.63	.59	.57	.57	
4	.82	.69	.60	.54	.79	.68	.60	.50	.65	.58	.52	.46	.63	.57	.52	.61	.55	.51	.48	.48	
5	.75	.62	.53	.46	.73	.61	.52	.44	.59	.51	.45	.40	.57	.50	.45	.55	.49	.44	.42	.42	
6	.69	.56	.47	.40	.67	.55	.46	.39	.53	.45	.40	.35	.51	.44	.39	.50	.44	.39	.37	.37	
7	.64	.51	.42	.36	.63	.50	.42	.34	.48	.41	.35	.30	.47	.40	.35	.45	.39	.35	.33	.33	
8	.60	.46	.38	.32	.58	.46	.37	.31	.44	.37	.32	.27	.43	.36	.31	.42	.36	.31	.29	.29	
9	.56	.43	.34	.29	.55	.42	.34	.28	.41	.33	.28	.23	.40	.33	.28	.38	.32	.28	.26	.26	
10	.53	.39	.31	.26	.51	.39	.31	.25	.38	.31	.26	.21	.37	.30	.26	.36	.30	.26	.24	.24	

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Maximum lm: 0.5
Field lm: 670.7
Total lm: 689.5

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Luminaire Report Summary

IESNA:LM-63-2002
[TEST] LM-79 Distribution
[TESTLAB] Kichler Lighting LLC
[ISSUEDATE] 7/16/2019
[MANUFAC] Kichler Lighting LLC
[LUMCAT] CTR180730-10
[LUMINAIRE] 43878XXLEDYY Gen 1 Small Downlight
[LAMP] Integrated LED AC

FILE: CREATED USING ABSOLUTE PHOTOMETRY
FILE: CANDELA MULTIPLIER: 1
FILE: VERTICAL ANGLES: 181, HORIZONTAL ANGLES: 73
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.