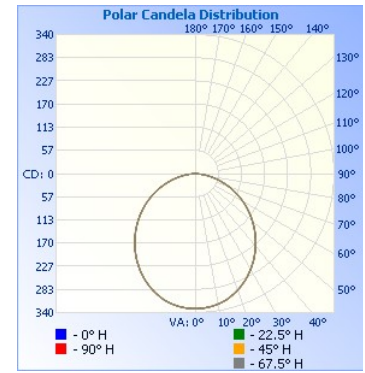


KICHLER®

KICHLER PHOTOMETRIC LAB

Filename: 43855WHLED30-Photometric Report

Manufacturer: Kichler Lighting LLC
 Luminaire: 43855WHLED30 Horizon 1 Downlight
 Luminaire Cat: CTR180730-08
 Lamp: Integrated LED AC
 Lamp Output: Total luminaire Lumens: 897.9
 Max Candela: 330.2 at Horizontal: 90°, Vertical: 1°
 Input Wattage: 12.4
 Luminous Opening: Circular (Dia: 3.48")
 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:	0.3
Max Cd, 80 to <90 Deg:	35.5
Lumens % Lamp	
Downward Street Side:	449.0 50%
Downward House Side:	449.0 50%
Downward Total:	898.0 100%
Upward Street Side:	0.0 0%
Upward House Side:	0.0 0%
Upward Total:	0.0 0%
Total Lumens:	898.0 100%

Flood Summary

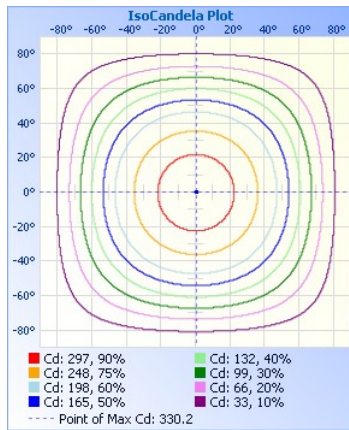
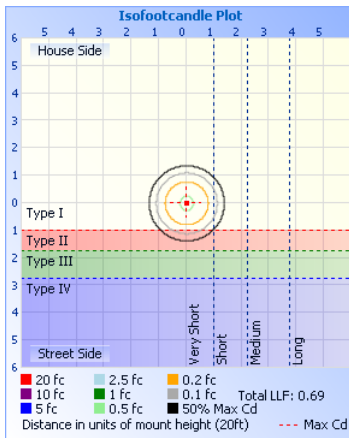
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	98.3%	882.3	161.1	161
Beam (50%):	69.7%	625.6	107.7	107.5
Total:	100%	897.7		

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	252.7	28.1%
0-40	409.7	45.6%
0-60	711.7	79.3%
60-90	186.2	20.7%
70-100	78.8	8.8%
90-120	0.0	0%
0-90	897.9	100%
90-180	0.0	0%
0-180	897.9	100%

Lumens Per Zone

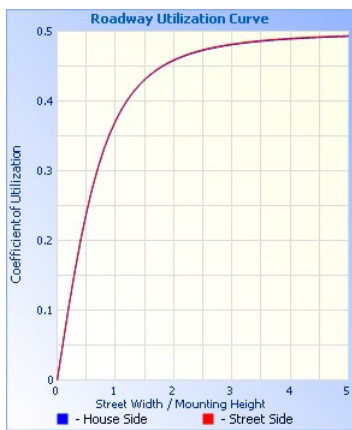
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	31.2	3.5%	90-100	0.0	0%
10-20	88.8	9.9%	100-110	0	0%
20-30	132.7	14.8%	110-120	0	0%
30-40	157.0	17.5%	120-130	0	0%
40-50	159.8	17.8%	130-140	0	0%
50-60	142.2	15.8%	140-150	0	0%
60-70	107.4	12.0%	150-160	0	0%
70-80	61.7	6.9%	160-170	0	0%
80-90	17.0	1.9%	170-180	0	0%



Illuminance at a Distance

Height	Center Beam fc	Beam Width
17.0ft	1.14 fc	46.4 ft 46.5 ft
34.0ft	0.29 fc	92.8 ft 93.1 ft
51.0ft	0.13 fc	139.1 ft 139.6 ft
68.0ft	0.07 fc	185.5 ft 186.2 ft
85.0ft	0.05 fc	231.9 ft 232.7 ft
102.0ft	0.03 fc	278.3 ft 279.3 ft

Vert. Spread: 107.5°
 Horiz. Spread: 107.7°



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	1.02	1.00
1	1.09	1.04	1.00	.96	1.06	1.02	.98	.85	.97	.94	.91	.89	.94	.91	.89	.90	.88	.86	.86	.84	.84
2	.99	.91	.84	.78	.96	.89	.83	.71	.85	.80	.75	.74	.82	.78	.74	.79	.75	.72	.72	.70	.70
3	.90	.80	.72	.65	.88	.78	.71	.61	.75	.69	.63	.62	.72	.67	.62	.70	.65	.61	.61	.59	.59
4	.83	.71	.62	.55	.80	.69	.61	.52	.67	.60	.54	.53	.64	.58	.53	.62	.57	.53	.53	.50	.50
5	.76	.63	.54	.48	.74	.62	.54	.46	.60	.52	.47	.46	.58	.51	.46	.56	.50	.46	.46	.44	.44
6	.70	.57	.48	.42	.68	.56	.48	.40	.54	.47	.41	.41	.52	.46	.41	.51	.45	.40	.40	.38	.38
7	.65	.52	.43	.37	.63	.51	.43	.36	.49	.42	.36	.36	.48	.41	.36	.46	.40	.36	.36	.34	.34
8	.61	.47	.39	.33	.59	.46	.38	.32	.45	.38	.33	.32	.44	.37	.32	.43	.37	.32	.32	.30	.30
9	.57	.43	.35	.30	.55	.43	.35	.29	.42	.34	.29	.29	.40	.34	.29	.39	.33	.29	.29	.27	.27
10	.53	.40	.32	.27	.52	.39	.32	.26	.38	.31	.27	.27	.38	.31	.27	.37	.31	.26	.26	.25	.25

53.75	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.1		
56.25	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1		
58.75	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0		
61.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0		
63.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0	
66.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	
68.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	
71.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	
73.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	
76.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0
78.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	
81.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
83.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
86.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
88.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Maximum lm: 0.6
Field lm: 882.3
Total lm: 897.7

Candela Table - Type C

	0	22.5	45	67.5	90
0	330	330	330	330	330
1	330	330	330	330	330
2	330	330	330	330	330
3	329	330	330	330	330
4	329	329	329	329	329
5	328	328	328	329	329
6	328	328	328	328	328
7	327	327	327	327	327
8	326	326	326	326	326
9	325	325	325	325	325
10	324	323	323	324	324
11	322	322	322	322	322
12	320	321	321	321	321
13	319	319	319	319	319
14	317	317	317	317	317
15	315	315	315	315	316
16	313	313	313	313	313
17	311	310	311	311	311
18	308	308	308	308	308
19	305	306	306	306	306
20	303	303	303	303	303
21	300	300	300	300	301
22	298	297	297	297	298
23	294	294	294	295	294
24	291	291	291	292	292
25	288	288	288	288	289
26	285	285	285	285	285
27	281	281	281	281	282
28	278	278	278	278	278
29	274	274	274	275	274
30	271	271	271	271	271
31	267	267	267	267	267
32	263	263	263	263	263
33	259	259	259	259	259
34	255	255	255	255	256
35	251	251	251	251	251
36	247	247	247	247	247
37	243	243	243	243	243
38	238	239	239	239	239
39	234	234	234	234	235
40	230	230	230	230	230
41	225	225	225	225	225
42	221	221	221	221	221
43	216	216	216	216	217
44	212	211	212	212	212
45	207	207	207	207	207
46	202	202	202	203	203
47	198	198	198	198	198
48	193	193	193	193	193
49	188	188	188	188	189
50	183	183	183	184	184
51	179	179	179	179	179
52	174	174	174	174	174
53	169	169	169	169	169
54	164	164	164	164	164
55	159	159	159	160	160
56	154	154	154	155	155
57	149	149	149	149	149
58	144	144	144	144	144
59	139	139	139	139	140
60	134	134	134	134	134
61	129	129	129	129	129
62	124	124	124	124	124
63	119	119	119	119	119
64	114	114	114	114	114
65	108	108	108	109	109
66	103	103	103	104	104
67	98	98	98	98	99
68	93	93	93	93	93
69	88	88	88	88	88
70	83	83	83	83	83
71	78	78	78	78	78
72	73	73	73	73	73
73	68	68	68	68	68
74	63	63	63	63	63
75	58	58	58	58	58
76	53	53	53	54	54
77	49	49	49	49	49
78	44	44	44	44	44
79	40	40	40	40	40

80	35	35	35	35	35
81	31	31	31	31	31
82	26	26	26	27	27
83	22	22	22	23	23
84	18	18	18	19	19
85	15	15	15	15	15
86	11	11	11	11	11
87	8	8	8	8	8
88	5	5	5	5	5
89	2	2	2	2	2
90	0	0	0	0	0
91	0	0	0	0	0
92	0	0	0	0	0
93	0	0	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
99	0	0	0	0	0
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127	0	0	0	0	0
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134	0	0	0	0	0
135	0	0	0	0	0
136	0	0	0	0	0
137	0	0	0	0	0
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147	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
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] 7/11/2019
[MANUFAC] Kichler Lighting LLC
[LUMCAT] CTR180730-08
[LUMINAIRE] 43855WHLED30 Horizon 1 Downlight
[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.