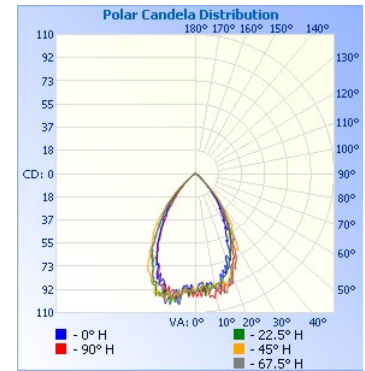


KICHLER®

KICHLER PHOTOMETRIC LAB

Filename: CTR180743-01A Low
Manufacturer: Eaglerise
Luminaire: CP301752 Landscape Underwater
Luminaire Cat: CTR180743-01A Low
Lamp: Integrated LED AC
Lamp Output: Total luminaire Lumens: 117.4
Max Candela: 105.3 at Horizontal: 180°, Vertical: 13°
Input Wattage: 1.3
Luminous Opening: Circular (Dia: 1.8")
Test: LM-79 Distribution
Test Lab: Kichler Lighting LLC
Photometry: Type C
Nema Type: 5 X 5



Roadway Summary

Cutoff Classification:	FULL CUTOFF
Distribution:	Type VS
Max Cd, 90 Deg Vert:	0
Max Cd, 80 to <90 Deg:	0.5
Lumens % Lamp	
Downward Street Side:	57.0 48.6%
Downward House Side:	60.4 51.5%
Downward Total:	117.4 100%
Upward Street Side:	0 0%
Upward House Side:	0 0%
Upward Total:	0 0%
Total Lumens:	117.4 100%

Flood Summary

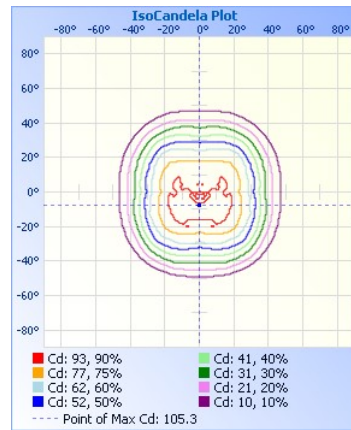
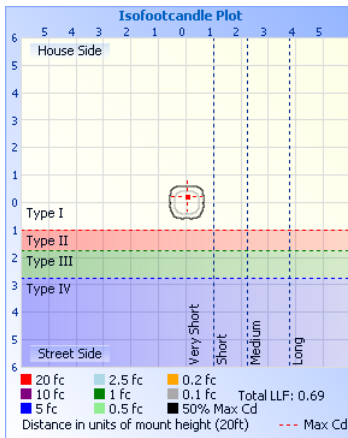
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	94.9%	111.4	93.9	95.6
Beam (50%):	68.7%	80.6	63.9	62.1
Total:	100%	117.4		

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	69.3	59.1%
0-40	98.3	83.7%
0-60	115.7	98.6%
60-90	1.7	1.4%
70-100	0.4	0.4%
90-120	0	0%
0-90	117.4	100%
90-180	0	0%
0-180	117.4	100%

Lumens Per Zone

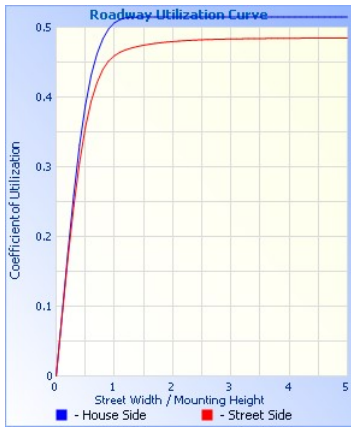
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	8.9	7.6%	90-100	0	0%
10-20	26.2	22.3%	100-110	0	0%
20-30	34.3	29.2%	110-120	0	0%
30-40	28.9	24.6%	120-130	0	0%
40-50	14.4	12.2%	130-140	0	0%
50-60	3.1	2.6%	140-150	0	0%
60-70	1.2	1.1%	150-160	0	0%
70-80	0.4	0.3%	160-170	0	0%
80-90	0.0	0.0%	170-180	0	0%



Illuminance at a Distance

Center Beam fc	Beam Width
17.0ft: 0.32 fc	20.5 ft 21.2 ft
34.0ft: 0.08 fc	40.9 ft 42.4 ft
51.0ft: 0.04 fc	61.4 ft 63.6 ft
68.0ft: 0.02 fc	81.8 ft 84.7 ft
85.0ft: 0.01 fc	102.3 ft 105.9 ft
102.0ft: 0.01 fc	122.7 ft 127.1 ft

■ Vert. Spread: 62.1°
■ Horiz. Spread: 63.9°



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	1.13	1.10	1.07	1.05	1.10	1.08	1.05	.93	1.04	1.02	1.00	1.00	1.00	.98	.97	.96	.95	.94	.94	.92	.92
2	1.07	1.01	.97	.93	1.04	1.00	.95	.85	.96	.93	.90	.93	.90	.88	.88	.90	.88	.86	.86	.85	.85
3	1.01	.93	.88	.84	.98	.92	.87	.78	.89	.85	.82	.87	.83	.80	.85	.82	.79	.77	.77	.77	.77
4	.95	.86	.80	.76	.93	.85	.80	.72	.83	.78	.74	.81	.77	.73	.79	.75	.72	.71	.71	.71	.71
5	.89	.80	.74	.69	.88	.79	.73	.66	.77	.72	.68	.75	.71	.67	.74	.70	.67	.65	.65	.65	.65
6	.84	.74	.68	.63	.83	.74	.67	.61	.72	.66	.62	.71	.66	.62	.69	.65	.62	.60	.60	.60	.60
7	.79	.69	.63	.58	.78	.69	.62	.57	.67	.62	.58	.66	.61	.57	.65	.60	.57	.55	.55	.55	.55
8	.75	.65	.58	.54	.74	.64	.58	.53	.63	.57	.53	.62	.57	.53	.61	.56	.53	.51	.51	.51	.51
9	.71	.61	.54	.50	.70	.60	.54	.49	.59	.53	.49	.58	.53	.49	.57	.53	.49	.48	.48	.48	.48
10	.67	.57	.50	.46	.66	.56	.50	.46	.55	.50	.46	.55	.50	.46	.54	.49	.46	.44	.44	.44	.44

53.75	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
56.25	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
58.75	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
61.25	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
63.75	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
66.25	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
68.75	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
71.25	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
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	0	0	0	0	0	0	0	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	0	0	0	0	0	0	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	0	0	0	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
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
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
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

Maximum lm: 0.2
 Field lm: 111.4
 Total lm: 117.4

Candela Table - Type C

	0	22.5	45	67.5	90	112.5	135	157.5	180
0	94	94	94	94	94	94	94	94	94
1	93	91	90	92	97	95	89	94	94
2	87	93	91	92	93	91	94	94	88
3	87	93	91	89	97	96	92	92	93
4	86	87	88	90	91	93	93	95	89
5	93	97	89	89	94	90	90	90	89
6	87	88	94	91	93	92	97	92	90
7	88	93	90	95	98	97	93	103	104
8	87	90	92	91	97	95	98	93	102
9	91	88	89	91	100	103	95	95	93
10	92	92	89	91	94	98	101	94	94
11	95	89	94	93	94	105	100	99	101
12	90	88	88	92	97	97	96	96	100
13	91	90	88	94	92	98	104	94	105
14	82	89	93	95	97	99	98	102	101
15	85	85	88	98	90	95	101	99	97
16	79	84	92	94	91	101	98	94	89
17	83	83	89	92	93	98	101	91	87
18	76	82	89	87	92	101	97	93	90
19	80	79	85	92	88	95	100	91	83
20	70	79	83	87	86	91	94	94	89
21	69	75	82	84	79	91	92	94	85
22	74	73	80	78	77	88	93	89	77
23	71	71	78	83	77	87	89	86	78
24	68	68	79	78	74	81	87	80	75
25	58	67	76	77	74	80	86	80	71
26	59	63	75	74	67	78	85	74	69
27	53	63	71	70	65	74	82	76	65
28	52	59	67	66	63	72	79	75	64
29	48	57	69	61	57	69	75	71	59
30	51	56	67	59	55	70	72	69	57
31	42	52	63	61	52	62	67	64	53
32	44	51	58	54	49	61	63	58	51
33	39	47	54	49	45	57	63	56	47
34	37	47	52	49	40	51	59	53	44
35	33	42	51	44	39	48	58	51	44
36	34	39	50	42	38	45	55	49	39
37	32	39	44	38	32	43	51	44	37
38	29	37	41	35	29	40	49	42	35
39	28	33	38	34	27	36	45	40	32
40	25	31	34	29	24	34	40	37	32
41	22	29	30	29	23	28	36	34	31
42	20	24	29	25	20	27	34	33	25
43	18	22	26	22	18	24	31	29	24
44	15	20	22	19	15	20	27	26	23
45	14	17	20	16	13	17	24	23	20
46	12	15	16	14	12	13	22	19	16
47	11	13	13	12	10	12	18	17	14
48	9	12	12	11	9	11	14	13	12
49	8	9	10	9	7	9	11	12	9
50	7	9	8	8	7	7	9	9	8
51	6	7	7	7	6	5	6	6	5
52	6	7	6	6	5	3	3	3	2
53	5	6	5	5	4	3	2	2	1
54	5	5	5	5	4	2	2	1	1
55	6	5	5	4	3	1	1	1	1
56	5	5	5	4	3	1	1	1	1
57	5	5	5	4	2	1	0	0	0
58	4	4	4	4	2	1	0	0	0
59	4	4	4	3	2	0	0	0	0
60	4	4	4	3	2	0	0	0	0
61	4	4	4	3	1	0	0	0	0
62	4	4	3	3	1	0	0	0	0
63	3	4	3	2	1	0	0	0	0
64	3	3	3	2	1	0	0	0	0
65	3	3	3	2	1	0	0	0	0
66	3	3	2	1	1	0	0	0	0
67	3	3	2	1	1	0	0	0	0
68	3	3	2	1	1	0	0	0	0
69	3	2	1	1	1	0	0	0	0
70	2	2	1	1	0	0	0	0	0
71	2	2	1	1	0	0	0	0	0
72	2	2	1	1	0	0	0	0	0
73	2	2	1	1	0	0	0	0	0
74	1	1	1	0	0	0	0	0	0
75	1	1	1	0	0	0	0	0	0
76	1	1	0	0	0	0	0	0	0
77	1	1	0	0	0	0	0	0	0
78	1	1	0	0	0	0	0	0	0
79	1	1	0	0	0	0	0	0	0

80	0	0	0	0	0	0	0	0	0
81	0	0	0	0	0	0	0	0	0
82	0	0	0	0	0	0	0	0	0
83	0	0	0	0	0	0	0	0	0
84	0	0	0	0	0	0	0	0	0
85	0	0	0	0	0	0	0	0	0
86	0	0	0	0	0	0	0	0	0
87	0	0	0	0	0	0	0	0	0
88	0	0	0	0	0	0	0	0	0
89	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0
91	0	0	0	0	0	0	0	0	0
92	0	0	0	0	0	0	0	0	0
93	0	0	0	0	0	0	0	0	0
94	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0
96	0	0	0	0	0	0	0	0	0
97	0	0	0	0	0	0	0	0	0
98	0	0	0	0	0	0	0	0	0
99	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0
101	0	0	0	0	0	0	0	0	0
102	0	0	0	0	0	0	0	0	0
103	0	0	0	0	0	0	0	0	0
104	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0
106	0	0	0	0	0	0	0	0	0
107	0	0	0	0	0	0	0	0	0
108	0	0	0	0	0	0	0	0	0
109	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0
111	0	0	0	0	0	0	0	0	0
112	0	0	0	0	0	0	0	0	0
113	0	0	0	0	0	0	0	0	0
114	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0
116	0	0	0	0	0	0	0	0	0
117	0	0	0	0	0	0	0	0	0
118	0	0	0	0	0	0	0	0	0
119	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0
121	0	0	0	0	0	0	0	0	0
122	0	0	0	0	0	0	0	0	0
123	0	0	0	0	0	0	0	0	0
124	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0
126	0	0	0	0	0	0	0	0	0
127	0	0	0	0	0	0	0	0	0
128	0	0	0	0	0	0	0	0	0
129	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0
131	0	0	0	0	0	0	0	0	0
132	0	0	0	0	0	0	0	0	0
133	0	0	0	0	0	0	0	0	0
134	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0
136	0	0	0	0	0	0	0	0	0
137	0	0	0	0	0	0	0	0	0
138	0	0	0	0	0	0	0	0	0
139	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0
141	0	0	0	0	0	0	0	0	0
142	0	0	0	0	0	0	0	0	0
143	0	0	0	0	0	0	0	0	0
144	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0
146	0	0	0	0	0	0	0	0	0
147	0	0	0	0	0	0	0	0	0
148	0	0	0	0	0	0	0	0	0
149	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0
151	0	0	0	0	0	0	0	0	0
152	0	0	0	0	0	0	0	0	0
153	0	0	0	0	0	0	0	0	0
154	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0
156	0	0	0	0	0	0	0	0	0
157	0	0	0	0	0	0	0	0	0
158	0	0	0	0	0	0	0	0	0
159	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0
161	0	0	0	0	0	0	0	0	0
162	0	0	0	0	0	0	0	0	0

163	0	0	0	0	0	0	0	0	0
164	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0
166	0	0	0	0	0	0	0	0	0
167	0	0	0	0	0	0	0	0	0
168	0	0	0	0	0	0	0	0	0
169	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0
171	0	0	0	0	0	0	0	0	0
172	0	0	0	0	0	0	0	0	0
173	0	0	0	0	0	0	0	0	0
174	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0
176	0	0	0	0	0	0	0	0	0
177	0	0	0	0	0	0	0	0	0
178	0	0	0	0	0	0	0	0	0
179	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0

Luminaire Report Summary

IESNA:LM-63-2002
[LUMCAT] CTR180743-01A Low
[LUMINAIRE] CP301752 Landscape Underwater
[LAMP] Integrated LED AC
[TEST] LM-79 Distribution
[TESTLAB] Kichler Lighting LLC
[ISSUEDATE] 7/22/2019
[MANUFAC] Eaglerise

FILE: CREATED USING ABSOLUTE PHOTOMETRY
FILE: CANDELA MULTIPLIER: 1
FILE: VERTICAL ANGLES: 181, HORIZONTAL ANGLES: 9
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.