

KICHLER®

KICHLER PHOTOMETRIC LAB

Filename: CTR180857-17E
Manufacturer: Kichler Lighting LLC
Luminaire: 16162CBR30
Luminaire Cat: CTR180857-17E
Lamp: Integrated LED DC
Lamp Output: Total luminaire Lumens: 1295.5
Max Candela: 1,258.8 at Horizontal: 185°, Vertical: 16°
Input Wattage: 16.8
Luminous Opening: Circular (Dia: 2.16")
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
Lumens % Lamp	
Downward Street Side:	655.8 50.6%
Downward House Side:	639.8 49.4%
Downward Total:	1,295.7 100%
Upward Street Side:	0 0%
Upward House Side:	0 0%
Upward Total:	0 0%
Total Lumens:	1,295.7 100%

Zonal Lumen Summary

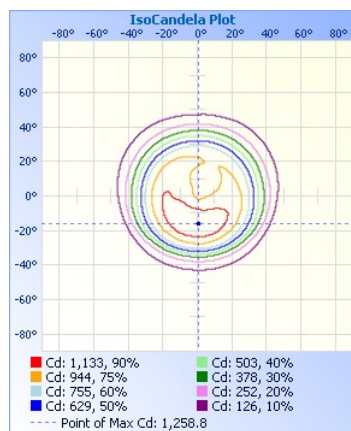
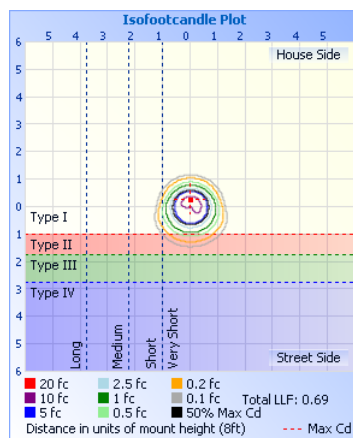
Zone	Lumens	% Luminaire
0-30	846.0	65.3%
0-40	1,151.4	88.9%
0-60	1,289.5	99.5%
60-90	6.0	0.5%
70-100	0.5	0%
90-120	0	0%
0-90	1,295.5	100%
90-180	0	0%
0-180	1,295.5	100%

Flood Summary

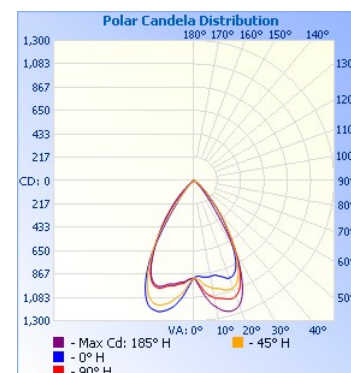
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	95.1%	1,232.0	83.4	90.2
Beam (50%):	72.8%	943.1	58.2	64.1
Total:	100%	1,295.5		

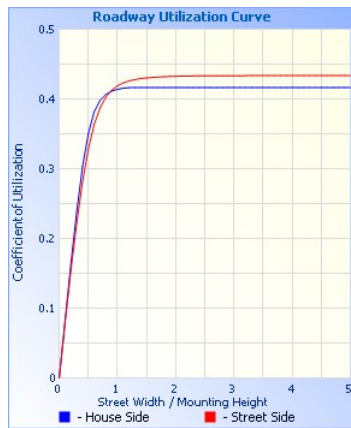
Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	95.9	7.4%	90-100	0	0%
10-20	307.5	23.7%	100-110	0	0%
20-30	442.6	34.2%	110-120	0	0%
30-40	305.4	23.6%	120-130	0	0%
40-50	110.7	8.5%	130-140	0	0%
50-60	27.4	2.1%	140-150	0	0%
60-70	5.5	0.4%	150-160	0	0%
70-80	0.5	0.0%	160-170	0	0%
80-90	0	0.0%	170-180	0	0%



Illuminance at a Distance			
	Center Beam fc	Beam Width	
1.3ft	536 fc	1.6 ft	1.4 ft
2.7ft	124 fc	3.4 ft	3.0 ft
4.0ft	56.6 fc	5.0 ft	4.4 ft
5.3ft	32.3 fc	6.6 ft	5.9 ft
6.7ft	20.2 fc	8.4 ft	7.5 ft
8.0ft	14.2 fc	10.0 ft	8.9 ft
■ Vert. Spread: 64.1° ■ Horiz. Spread: 58.2°			





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	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	1.08	1.05	1.11	1.08	1.06	.93	1.04	1.02	1.01	1.00	.99	.98	.97	.96	.95	.95	.93	.93	.93
2	1.07	1.02	.98	.94	1.05	1.00	.97	.86	.97	.94	.91	.94	.92	.89	.91	.89	.87	.86	.87	.86	.86
3	1.01	.95	.89	.85	.99	.93	.88	.80	.91	.86	.83	.88	.85	.82	.86	.83	.81	.79	.81	.79	.79
4	.96	.88	.82	.78	.94	.87	.81	.74	.84	.80	.76	.82	.78	.75	.81	.77	.74	.73	.74	.73	.73
5	.91	.82	.76	.71	.89	.81	.75	.68	.79	.74	.70	.77	.73	.69	.76	.72	.69	.67	.69	.67	.67
6	.86	.76	.70	.65	.84	.75	.69	.63	.74	.69	.65	.72	.68	.64	.71	.67	.64	.62	.64	.62	.62
7	.81	.71	.65	.60	.80	.70	.64	.59	.69	.64	.60	.68	.63	.59	.67	.62	.59	.58	.59	.58	.58
8	.77	.67	.60	.56	.75	.66	.60	.55	.65	.59	.56	.64	.59	.55	.63	.58	.55	.54	.55	.54	.54
9	.73	.62	.56	.52	.71	.62	.56	.51	.61	.56	.52	.60	.55	.51	.59	.55	.51	.50	.51	.50	.50
10	.69	.59	.53	.48	.68	.58	.52	.48	.57	.52	.48	.57	.52	.48	.56	.51	.48	.47	.48	.47	.47

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Maximum Im: 2.3
Field Im: 1,232.0
Total Im: 1,295.5

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190					
0	906	906	906	906	906	906	906	906	906	906	906	906	906	906	906	906	906	906	906	906	906	906	906	906	906	906	906	906	906	906	906	906	906	906	906	906	906	906	906	906	906			
1	890	891	891	892	893	895	896	898	900	902	904	905	908	910	912	913	917	918	918	919	922	923	924	927	927	930	930	932	932	932	932	932	932	932	932	932	932	932	932	932	932	932	932	932
2	887	889	891	893	896	899	902	905	909	912	916	919	923	927	930	934	936	940	943	946	949	952	954	956	958	961	962	964	965	965	966	966	967	967	967	967	966	966	955	953	952	952	952	
3	886	890	893	896	900	904	908	912	917	922	927	934	940	944	948	954	957	962	966	968	974	977	981	985	988	991	994	996	997	998	1000	1001	1001	1002	1001	1000	988	985	985	985	985			
4	892	896	900	904	909	913	919	925	931	938	945	952	958	963	971	977	982	987	991	994	1001	1006	1012	1016	1019	1023	1025	1028	1030	1031	1033	1035	1037	1039	1039	1037	1024	1021	1021	1021	1021	1021		
5	897	902	906	913	920	925	931	939	950	960	969	978	985	990	998	1005	1012	1015	1021	1024	1032	1038	1043	1050	1054	1057	1060	1064	1066	1066	1066	1071	1074	1075	1076	1077	1076	1062	1060	1059	1059			
6	899	904	909	916	925	931	938	947	961	974	986	997	1007	1013	1020	1029	1036	1041	1046	1053	1060	1065	1073	1079	1084	1088	1091	1095	1098	1099	1102	1105	1108	1108	1108	1109	1096	1092	1092	1092	1092			
7	899	905	910	916	925	932	941	952	968	984	1001	1015	1022	1030	1039	1046	1053	1059	1064	1069	1080	1087	1096	1101	1107	1113	1116	1117	1121	1123	1126	1130	1133	1136	1138	1138	1137	1124	1120	1121	1120	1120		
8	902	907	912	917	926	934	944	958	974	993	1013	1030	1040	1048	1053	1059	1066	1074	1079	1085	1095	1105	1117	1125	1131	1134	1133	1135	1139	1142	1145	1149	1155	1159	1164	1166	1153	1150	1149	1149	1149			
9	903	907	911	919	929	936	945	966	985	1003	1023	1042	1056	1059	1065	1073	1081	1086	1091	1100	1111	1121	1132	1144	1150	1149	1150	1155	1159	1160	1165	1172	1178	1179	1182	1187	1179	1173	1171	1171	1171			
10	900	906	912	922	933	941	952	972	994	1013	1041	1068	1083	1068	1076	1085	1092	1097	1103	1112																								

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Luminaire Report Summary

IESNA:LM-63-2002
[LUMCAT] CTR180857-17E
[LUMINAIRE] 16162CBR30
[LAMP] Integrated LED DC
[TEST] LM-79 Distribution
[TESTLAB] Kichler Lighting LLC
[ISSUEDATE] 1/22/2020
[MANUFAC] Kichler Lighting LLC

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.