

KICHLER®

KICHLER PHOTOMETRIC LAB

Filename: DTC Mini Recessed-2" Round 8W-Photometric Report

Manufacturer: Kichler Lighting LLC

Luminaire: DLMN02R3090WHT

Luminaire Cat: CTR181081-01

Lamp: Integrated LED AC

Lamp Output: Total luminaire Lumens: 607.8

Max Candela: 1,515.7 at Horizontal: 210°, Vertical: 1°

Input Wattage: 7.9

Luminous Opening: Circular (Dia: 2.04")

Test: LM-79 Distribution

Test Lab: Kichler Lighting LLC

Photometry : Type C

Nema Type: 4 X 4

Roadway Summary

Cutoff Classification:	FULL CUTOFF
Distribution:	Type VS
Max Cd, 90 Deg Vert:	0
Max Cd, 80 to <90 Deg:	1.4
Lumens % Lamp	
Downward Street Side:	298.4 49.1%
Downward House Side:	309.7 51%
Downward Total:	608.1 100.1%
Upward Street Side:	0 0%
Upward House Side:	0 0%
Upward Total:	0 0%
Total Lumens:	608.1 100.1%

Zonal Lumen Summary

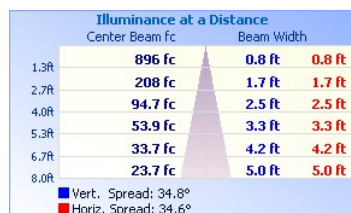
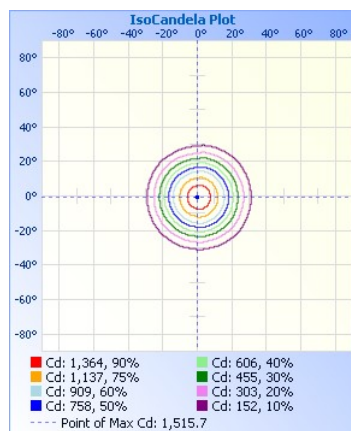
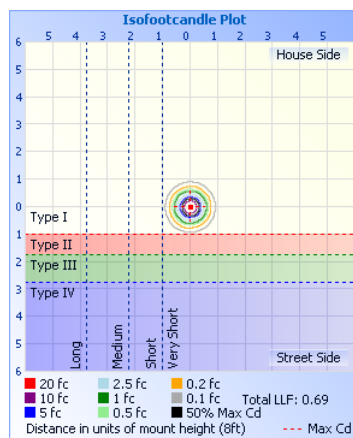
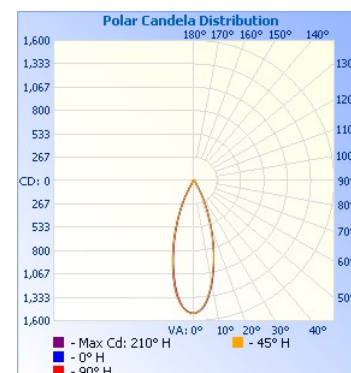
Zone	Lumens	% Luminaire
0-30	531.2	87.4%
0-40	569.1	93.6%
0-60	596.9	98.2%
60-90	10.9	1.8%
70-100	3.4	0.6%
90-120	0	0%
0-90	607.8	100%
90-180	0	0%
0-180	607.8	100%

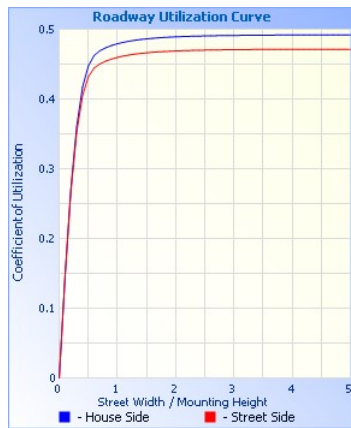
Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	87.3%	530.5	60.1	60
Beam (50%):	51.2%	311.2	34.6	34.8
Total:	100.1%	608.3		

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	129.5	21.3%	90-100	0	0%
10-20	245.8	40.4%	100-110	0	0%
20-30	155.9	25.6%	110-120	0	0%
30-40	37.9	6.2%	120-130	0	0%
40-50	16.1	2.7%	130-140	0	0%
50-60	11.7	1.9%	140-150	0	0%
60-70	7.5	1.2%	150-160	0	0%
70-80	3.2	0.5%	160-170	0	0%
80-90	0.2	0.0%	170-180	0	0%





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	1.14	1.12	1.09	1.07	1.12	1.09	1.07	.95	1.05	1.04	1.02	1.02	1.01	.99	.98	.97	.97	.97	.97	.95	.95
2	1.09	1.05	1.01	.98	1.07	1.03	1.00	.90	1.00	.97	.95	.97	.95	.93	.94	.93	.91	.91	.91	.90	.90
3	1.05	.99	.95	.91	1.03	.98	.94	.86	.95	.92	.89	.93	.90	.88	.91	.88	.87	.87	.87	.85	.85
4	1.01	.94	.89	.86	.99	.93	.89	.82	.91	.87	.84	.89	.86	.83	.87	.84	.82	.82	.82	.81	.81
5	.97	.89	.84	.81	.95	.89	.84	.78	.87	.83	.80	.85	.82	.79	.84	.81	.78	.78	.78	.77	.77
6	.93	.85	.80	.77	.92	.85	.80	.75	.83	.79	.76	.82	.78	.75	.81	.77	.75	.75	.75	.74	.74
7	.89	.82	.77	.73	.88	.81	.76	.72	.80	.76	.72	.79	.75	.72	.78	.74	.72	.72	.72	.70	.70
8	.86	.78	.73	.70	.85	.78	.73	.69	.77	.72	.69	.76	.72	.69	.75	.71	.69	.69	.69	.68	.68
9	.83	.75	.70	.67	.82	.75	.70	.66	.74	.69	.66	.73	.69	.66	.72	.69	.66	.66	.66	.65	.65
10	.80	.72	.67	.64	.79	.72	.67	.63	.71	.67	.64	.70	.66	.64	.70	.66	.64	.64	.64	.62	.62

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Maximum Im: 2.5
Field Im: 530.5
Total Im: 608.3

Candela Table - Type C

	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	
0	1515	1515	1514	1514	1514	1514	1513	1513	1513	1513	1513	1514	1513	1513	1514	1513	1513	1513	1513	1513	1513	1513	1513	1513	1513	1513	1515	1513	1513	1514	1514	1514	1514	1513	1514	1514	1514	1515	151
1	1506	1507	1507	1507	1507	1508	1507	1507	1507	1508	1508	1508	1508	1509	1508	1509	1509	1509	1508	1509	1510	1510	1510	1509	1510	1509	1510	1509	1510	1509	1509	1509	1510	1510	1511	1511	1511	1515	151
2	1494	1494	1494	1494	1493	1493	1493	1493	1492	1493	1493	1492	1492	1493	1493	1494	1495	1494	1495	1496	1498	1497	1498	1498	1498	1499	1498	1499	1498	1498	1497	1498	1499	1499	1499	1501	1501	1507	150
3	1480	1478	1478	1476	1476	1474	1474	1474	1474	1473	1473	1472	1471	1470	1471	1470	1472	1473	1473	1475	1476	1476	1477	1478	1479	1480	1482	1482	1483	1482	1483	1483	1483	1484	1484	1485	1496	149	
4	1458	1456	1456	1454	1453	1451	1452	1450	1450	1450	1447	1446	1444	1444	1443	1445	1445	1445	1446	1449	1451	1453	1452	1453	1453	1454	1456	1458	1459	1461	1463	1465	1464	1465	1465	1466	1476	147	
5	1426	1425	1424	1421	1421	1419	1418	1416	1415	1415	1416	1412	1413	1412	1410	1411	1412	1412	1414	1418	1422	1423	1422	1422	1422	1422	1425	1425	1428	1429	1433	1435	1438	1437	1437	1438	1439	1453	145
6	1388	1385	1384	1381	1382	1379	1375	1372	1374	1373	1373	1371	1372	1371	1371	1372	1373	1373	1374	1378	1383	1382	1382	1383	1383	1386	1388	1390	1393	1396	1400	1402	1404	1403	1403	1404	1421	142	
7	1342	1341	1337	1336	1336	1331	1328	1327	1329	1330	1329	1326	1326	1325	1326	1327	1327	1328	1328	1331	1335	1338	1339	1340	1343	1344	1348	1348	1349	1353	1358	1359	1362	1363	1364	1367	1385	138	
8	1291	1289	1285	1285	1285	1282	1279	1279	1281	1280	1280	1275	1274	1272	1274	1278	1276	1276	1279	1280	1285	1288	1290	1291	1296	1300	1302	1302	1302	1302	1307	1311	1315	1317	1319	1320	1323	1346	134
9	1239	1236	1232	1231	1230	1228	1226	1225	1224	1223	1223	1219	1218	1217	1219	1221	1222	1221	1223	1226	1230	1231	1234	1238	1243	1244	1248	1249	1252	1257	1260	1264	1267	1266	1268	1272	1301	129	
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12	1057	1057	1057	1057	1056	1053	1047	1046	1047	1048	1047	1047	1050	1052	1052	1053	1054	1053	1053	1056	1059	1056	1058	1059	1063	1069	1071	1073	1075	1085	1083	1090	1088	1089	1092	1128	113		
13	997	994	996	996	994	990	984	984	987	988	988	985	986	986	988	992	994	994	992	993	995	999	996	997	997	999	1004	1007	1011	1014	1019	1024	1028	1027	1029	1031	1066	106	
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15	873	870	869	866	863	858	862	859	862	866	866	862	866	864	866	871	870	870	871	873	871	876	876	876	881	882	886	888	890	894	899	902	905	906	908	942	94		
16	808	806	805	800	798	796	800	796	800	801	803	799	804	804	805	809	809	810	809	811	811	814	812	814	817	818	819	825	826	827	831	836	839	846	843	844	881	87	
17	743	741	740	736	736	736	735	733	736	738	747	740	743	745	747	748	751	749	749	750	751	754	752	753	754	757	758	761	764	765	769	774	778	784	782	781	818	81	
18	680	680	678	673	672	673	672	672	674	677	684	680	683	685	687	687	690	691	692	692	693	696	696	692	693	694	698	698	700	705	709	712	717	723	723	722	755	75	
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20	558	559	556	552	549	552	551	553	552	558	566	563	567	567	570	568	571	573	574	574	576	578	576	572	574	574	578	576	582	585	590	591	600	607	606	609	634	63	
21	505	505	503	499	495	497	498	501	500	507	509	510	513	514	518	513	519	520	521	521	519	525	521	518	520	524	522	527	529	533	536	544	548	551	547	576	57		
22	451	453	450	444	441	444	445	447	447	454	455	458	461	463	462	464	466	467	470	470	473	468	472	469	466	470	468	472	479	484	487	493	498	500	494	520	52		
23	400	401	399	392	390	393	396	396	396	403	403	405	407	409	411	412	412	415	416	420	420	423	417	417	416	416	417	417	419	426	431	432	438	446	448	442	469	47	
24	352	353	350	343	343	346	349	348	349	353	357	357	360	361	364	365	364	366	368	372	372	374	370	369	369	369	369	369	370	378	381	383	388	396	396	392	417	42	
25	308	309	307	300	301	303	305	304	306	309	314	315	315	317	319	320	319	322	324	327	328	331	326	326	324	326	324	324	332	334	338	342	350	349	344	369	36		
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28	197	197	193	189	190	188	188	191	190	196	200	198	198	199	199	201	201	204	206	210	212	211	208	208	210	210	209	214	217	218	223	229	227	224	243	24	24		
29	160	159	155	153	152	152	149	149	151	151	155	157	156	158	158	159	161	160	164	165	169	170	171	168	168	170	173	171	171	175	179	181	186	189	188	188	207	20	
30	130	128	125	123	121	122	117	117	116	117	119	119	120	121	122	123	124	125	127	129	131	133	133	132	133	133	136	136	139	141	145	149	153	154	154	155	170	16	
31	104	102	100	98	96	97	94	93	93	93	94	94	94	94	95	95	97	98	99	101	103	105	105	106	107	108	111	111	113	114	118	120	123	124	125	139	13		
32	82	80	79	78	76	77	75	74	74	74	74	75	74	76	75	75	76	77	77	80	82	84	85	86	87	88	90	91	92	93	95	98	99	100	100	100	111	11	
33	65	63	62	61	60	60	59	59	58	59	59	60	59	60	59	60	59	60	61	63	64	66	67	68	69	70	71	73	73	74	75	77	78	78	79	78	88	8	
34	53	52	51	50	50	49	48	48	49	49	49	49	49	49	49	50	49	49	50	51	52	54	54	55	56	57	58	58	58	58	60	61	62	63	62	69	6		
35	46	45	44	43	42	42	41	41	41	41	41	42	42	42	42	42	42	42	43	44	44	45	46	46	47	47	48	48	48	49	50	51	51	51	51	51	56	5	
36	40	39	38	37	37	36	36	36	36	36	36	36	37	37	37	37	37	37	37	38	38	39	39	40	40	40	41	41	41	42	43	43	44	44	44	43	46	4	
37	35	35	34	33	33</																																		

[illegible]

[illegible]

Luminaire Report Summary

IESNA:LM-63-2002
[TEST] LM-79 Distribution
[TESTLAB] Kichler Lighting LLC
[ISSUEDATE] 6/8/2020
[MANUFAC] Kichler Lighting LLC
[LUMCAT] CTR181081-01
[LUMINAIRE] DLMN02R3090WHT
[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.