

KICHLER®

KICHLER PHOTOMETRIC LAB

Filename: DTC Gimbal-4" Round 12W-Photometric Report

Manufacturer: Kichler Lighting LLC

Luminaire: DLGMN04R2790WHT

Luminaire Cat: CTR181081-04

Lamp: Integrated LED AC

Lamp Output: Total luminaire Lumens: 988.8

Max Candela: 3,244.3 at Horizontal: 215°, Vertical: 1°

Input Wattage: 11.8

Luminous Opening: Circular (Dia: 2.76")

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:	3.3
Lumens % Lamp	
Downward Street Side:	493.3 49.9%
Downward House Side:	496.3 50.2%
Downward Total:	989.6 100.1%
Upward Street Side:	0 0%
Upward House Side:	0 0%
Upward Total:	0 0%
Total Lumens:	989.6 100.1%

Zonal Lumen Summary

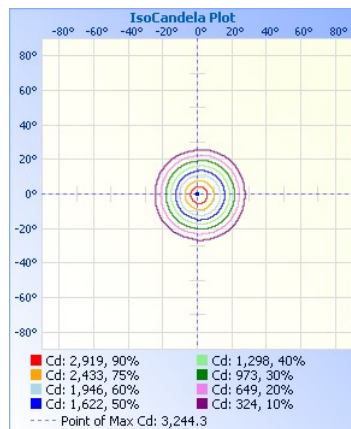
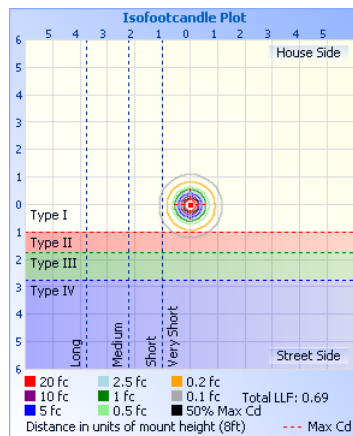
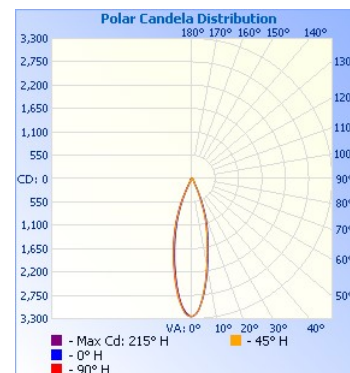
Zone	Lumens	% Luminaire
0-30	867.9	87.8%
0-40	913.1	92.3%
0-60	965.4	97.6%
60-90	23.4	2.4%
70-100	7.8	0.8%
90-120	0	0%
0-90	988.8	100%
90-180	0	0%
0-180	988.8	100%

Flood Summary

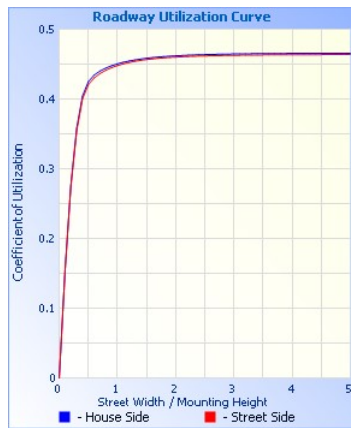
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	83.6%	826.5	51.9	52.3
Beam (50%):	44.1%	436.5	28.4	28.2
Total:	100.1%	990.3		

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	252.9	25.6%	90-100	0	0%
10-20	415.2	42.0%	100-110	0	0%
20-30	199.8	20.2%	110-120	0	0%
30-40	45.3	4.6%	120-130	0	0%
40-50	29.3	3.0%	130-140	0	0%
50-60	23.0	2.3%	140-150	0	0%
60-70	15.5	1.6%	150-160	0	0%
70-80	7.4	0.8%	160-170	0	0%
80-90	0.4	0.0%	170-180	0	0%



Illuminance at a Distance			
	Center Beam fc	Beam Width	
1.3ft	1,919 fc	0.7 ft	0.7 ft
2.7ft	445 fc	1.4 ft	1.4 ft
4.0ft	203 fc	2.0 ft	2.0 ft
5.3ft	115 fc	2.7 ft	2.7 ft
6.7ft	72.3 fc	3.4 ft	3.4 ft
8.0ft	50.7 fc	4.0 ft	4.1 ft
<div> <div></div> Vert. Spread: 28.2° <div></div> Horiz. Spread: 28.4° </div>			



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	1.10	1.08	1.12	1.10	1.08	.95	1.06	1.04	1.03	1.02	1.01	1.00	.98	.98	.97	.97	.95	.95	.95
2	1.10	1.05	1.02	.99	1.07	1.04	1.00	.91	1.00	.98	.96	.97	.95	.94	.95	.93	.92	.92	.90	.90	.90
3	1.05	1.00	.95	.92	1.03	.98	.94	.86	.96	.92	.90	.93	.91	.88	.91	.89	.87	.86	.86	.86	.86
4	1.01	.95	.90	.87	.99	.94	.89	.83	.92	.88	.85	.90	.87	.84	.88	.85	.83	.82	.82	.82	.82
5	.97	.90	.86	.82	.96	.90	.85	.79	.88	.84	.81	.86	.83	.80	.85	.82	.80	.78	.78	.78	.78
6	.94	.87	.82	.78	.93	.86	.81	.76	.84	.80	.77	.83	.80	.77	.82	.79	.76	.75	.75	.75	.75
7	.91	.83	.78	.75	.89	.82	.78	.73	.81	.77	.74	.80	.76	.74	.79	.76	.73	.72	.72	.72	.72
8	.88	.80	.75	.72	.87	.79	.75	.71	.78	.74	.71	.77	.74	.71	.77	.73	.71	.70	.70	.70	.70
9	.85	.77	.72	.69	.84	.77	.72	.68	.76	.72	.69	.75	.71	.68	.74	.71	.68	.67	.67	.67	.67
10	.82	.74	.70	.67	.81	.74	.69	.66	.73	.69	.66	.72	.69	.66	.72	.68	.66	.65	.65	.65	.65

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Maximum Im: 4.7
Field Im: 826.5
Total Im: 990.3

	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	3244	3244	3244	3244	3244	3244	3244	3244	3244	3244	3244	3244	3244	3244	3244	3244	3244	3244	3244	3244	3244	3244	3244	3244	3244	3244	3244	3244	3244	3244	3244	3244	3244	3244	3244	3244	3244	3244	
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2	3168	3169	3170	3170	3171	3173	3175	3173	3178	3175	3171	3171	3171	3171	3172	3171	3170	3171	3170	3173	3167	3169	3167	3169	3169	3171	3170	3173	3177	3181	3185	3193	3190	3194	3198	3199	3216	321	
3	3084	3084	3088	3084	3083	3081	3084	3083	3088	3085	3084	3084	3080	3087	3087	3084	3086	3086	3087	3085	3079	3079	3078	3081	3082	3083	3083	3086	3091	3100	3105	3109	3112	3121	3122	3130	3167	316	
4	2970	2974	2977	2974	2969	2969	2972	2971	2977	2973	2971	2968	2981	2969	2972	2963	2962	2960	2963	2968	2965	2963	2965	2967	2968	2973	2974	2976	2981	2993	2999	2998	3002	3012	3016	3024	3074	307	
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7	2564	2562	2558	2556	2543	2547	2541	2540	2539	2531	2524	2527	2521	2522	2530	2514	2510	2510	2520	2519	2515	2515	2518	2524	2526	2539	2542	2557	2557	2568	2577	2590	2588	2602	2608	2610	2624	2691	269
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11	1959	1948	1946	1937	1926	1919	1915	1911	1907	1903	1898	1893	1889	1890	1886	1882	1881	1884	1880	1887	1883	1892	1899	1905	1918	1927	1931	1941	1950	1959	1970	1979	1992	2000	2016	2029	2108	210	
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13	1693	1675	1675	1664	1656	1652	1651	1641	1641	1633	1624	1618	1619	1616	1615	1605	1609	1610	1614	1616	1616	1620	1627	1644	1642	1651	1658	1667	1676	1687	1697	1704	1713	1726	1736	1751	1838	183	
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16	1335	1328	1317	1306	1294	1287	1277	1274	1277	1268	1259	1255	1254	1253	1254	1246	1249	1242	1245	1248	1261	1248	1258	1259	1262	1270	1281	1287	1297	1307	1315	1320	1327	1345	1348	1363	1433	147	
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19	1015	1006	1004	997	982	975	969	968	959	958	942	943	938	937	932	922	916	921	920	924	925	922	917	927	930	939	945	942	948	959	967	979	982	993	1000	1007	1017	1082	108
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21	804	795	786	774	766	760	758	752	747	741	732	723	711	709	706	705	700	695	701	702	704	704	707	711	720	720	730	737	743	753	760	767	772	784	798	859	86		
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32	95	95	95	95	95	95	94	93	94	93	93	93	93	93	93	93	92	91	91	91	91	91	91	92	92	93	92	93	92	91	91	91	90	91	96	9			
33	85	85	85	85	85	84	84	84	84	84	84	83	83	83	83	83	82	81	81	81	81	80	81	81	82	82	82	82	82	81	81	81	80	80	80	84	8		
34	77	77	77	77	76	76	76	76	76	76	76	75	75	75	75	74	73	73	73	73	73	72	72	73	73	74	73	73	72	72	72	71	71	71	71	75	7		
35	70	70	70	70	70	70	70	70	69	70	70	69	69	69	68	67	67	66	66	66	66	66	66	66	66	67	66	65	65	65	64	64	64	63	64	66	6		
36	64	64	64	64	64	64	64	64	64	64	64	64	63	63	63	62	62	61	61	60	60	60	60	60	60	61	61	60	5										

[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] CTR181081-04
[LUMINAIRE] DLGMN04R2790WHT
[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.