



Filename: MOT22LY44W5800LDMV40K

Manufacturer: SAYLITE-TEXAS FLOURESCENTS REINVENTED

Lamp: LED Module

Lamp Output: Total luminaire Lumens: 5874.2

Max Candela: 1,983.7 at Horizontal: 0°, Vertical: 6°

Input Wattage: 44.3

Luminous Opening: Rectangle w/Luminous Sides (L: 24.02", W: 24.02", H: 3.94")

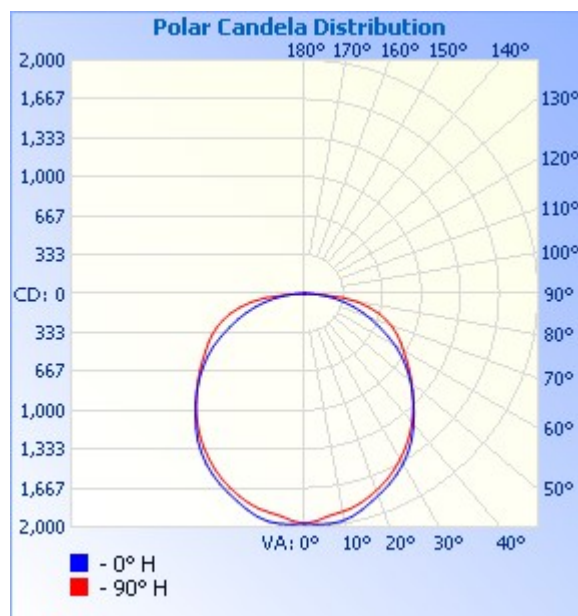
Test: MOT22LY44W5800LDMV40K

Test Date: 22-Nov-2023 11:01:27

Test Lab: Radiant Vision Systems ProSource

Photometry : Type C

Nema Type: 7 X 7



Roadway Summary

Cutoff Classification:	N/A	
Distribution:	Type VS	
Max Cd, 90 Deg Vert:	41.0	
Max Cd, 80 to <90 Deg:	465.0	
	Lumens	% Lamp
Downward Street Side:	2,936.3	50%
Downward House Side:	2,936.3	50%
Downward Total:	5,872.6	100%
Upward Street Side:	1.3	0%
Upward House Side:	1.3	0%
Upward Total:	2.6	0%
Total Lumens:	5,875.2	100%

Flood Summary

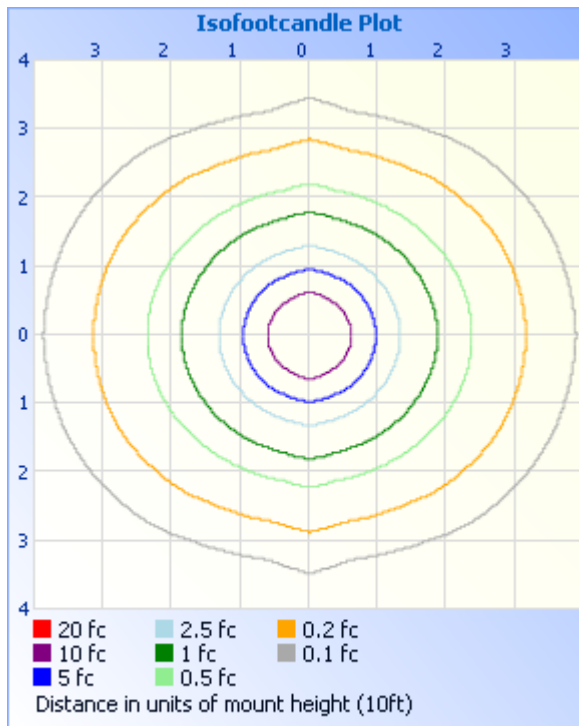
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	99%	5,814.6	172.1	166.9
Beam (50%):	68.7%	4,033.6	118.4	114.1
Total:	100%	5,872.9		

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1,499.6	25.5%
0-40	2,448.7	41.7%
0-60	4,349.5	74%
60-90	1,522.1	25.9%
70-100	766.1	13%
90-120	2.6	0%
0-90	5,871.6	100%
90-180	2.6	0%
0-180	5,874.2	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	184.8	3.1%	90-100	2.6	0%
10-20	525.3	8.9%	100-110	0.0	0%
20-30	789.5	13.4%	110-120	0	0%
30-40	949.1	16.2%	120-130	0	0%
40-50	990.0	16.9%	130-140	0	0%
50-60	910.8	15.5%	140-150	0	0%
60-70	758.6	12.9%	150-160	0	0%
70-80	547.8	9.3%	160-170	0	0%
80-90	215.7	3.7%	170-180	0	0%



	Center Beam fc	Beam Width	
1.7R	682 fc	5.2 ft	5.7 ft
3.3R	181 fc	10.2 ft	11.1 ft
5.0R	78.8 fc	15.4 ft	16.8 ft
6.7R	43.9 fc	20.7 ft	22.5 ft
8.3R	28.6 fc	25.6 ft	27.9 ft
10.0R	19.7 fc	30.9 ft	33.6 ft

■ Vert. Spread: 114.1°
■ Horiz. Spread: 118.4°

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	0	50	30	20	0	50	30	20	0	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	1.06	1.02	1.02	1.02	1.02	1.00
1	1.08	1.02	.97	.93	1.05	1.00	.96	.82	.96	.92	.89	.89	.92	.89	.86	.86	.88	.86	.83	.83	.81
2	.97	.88	.81	.75	.94	.86	.80	.68	.83	.77	.72	.72	.79	.75	.70	.70	.76	.72	.69	.69	.67
3	.88	.77	.69	.62	.86	.76	.68	.57	.72	.66	.60	.60	.70	.64	.59	.59	.67	.62	.58	.58	.55
4	.81	.68	.59	.52	.78	.67	.58	.49	.64	.57	.51	.51	.62	.55	.50	.50	.60	.54	.49	.49	.47
5	.74	.61	.51	.45	.72	.60	.51	.42	.57	.50	.44	.44	.55	.49	.43	.43	.54	.48	.43	.43	.41
6	.68	.55	.45	.39	.66	.54	.45	.37	.52	.44	.38	.38	.50	.43	.38	.38	.48	.42	.37	.37	.35
7	.63	.50	.40	.34	.62	.49	.40	.33	.47	.39	.34	.34	.46	.39	.33	.33	.44	.38	.33	.33	.31
8	.59	.45	.36	.30	.57	.44	.36	.30	.43	.36	.30	.30	.42	.35	.30	.30	.41	.34	.30	.30	.28
9	.55	.41	.33	.27	.54	.41	.33	.27	.40	.32	.27	.27	.39	.32	.27	.27	.38	.31	.27	.27	.25
10	.52	.38	.30	.25	.50	.38	.30	.24	.37	.30	.25	.25	.36	.29	.24	.24	.35	.29	.24	.24	.23

Candela Table - Type C										
	0	10	20	30	40	50	60	70	80	90
0	1970	1970	1970	1970	1970	1970	1970	1970	1970	1970
3	1979	1978	1976	1972	1968	1963	1958	1955	1952	1951
6	1984	1981	1973	1961	1949	1938	1930	1923	1919	1918
9	1976	1969	1952	1932	1914	1904	1898	1896	1898	1899
12	1953	1940	1914	1889	1878	1871	1869	1872	1879	1884
15	1914	1899	1871	1846	1838	1838	1839	1845	1851	1857
18	1870	1858	1824	1803	1797	1803	1807	1816	1822	1821
21	1828	1813	1782	1759	1756	1762	1769	1785	1790	1782
24	1786	1767	1736	1708	1711	1719	1719	1741	1749	1740
27	1738	1718	1675	1654	1659	1668	1667	1683	1691	1691
30	1685	1660	1599	1589	1592	1602	1611	1628	1629	1637
33	1625	1594	1520	1526	1536	1544	1554	1570	1574	1581
36	1557	1519	1442	1474	1485	1492	1496	1508	1517	1521
39	1479	1441	1378	1407	1419	1429	1432	1448	1451	1456
42	1398	1359	1307	1332	1341	1352	1362	1379	1378	1386
45	1321	1276	1232	1246	1258	1278	1289	1305	1308	1314
48	1243	1192	1163	1163	1183	1202	1219	1233	1240	1243
51	1162	1112	1081	1083	1108	1115	1145	1159	1174	1174
54	1078	1027	1000	992	1021	1028	1061	1087	1103	1107
57	993	935	902	914	941	956	985	1015	1037	1041
60	902	836	810	833	859	889	912	949	973	979
63	802	736	736	751	774	812	849	889	919	924
66	702	634	643	672	702	745	792	830	866	869
69	611	540	555	582	633	684	734	771	798	807
72	524	453	473	506	575	617	670	705	721	739
75	437	369	391	438	507	552	596	629	645	661
78	347	284	315	374	431	475	518	542	563	566
81	268	210	256	311	359	398	435	461	461	465
84	182	137	165	217	246	271	309	318	326	335
87	97	59	68	87	115	110	122	121	143	137
90	41	9	10	11	10	6	10	9	14	12
93	3	2	0	1	1	1	1	1	2	1
96	1	1	0	0	1	1	1	0	0	0
99	0	0	0	1	1	1	1	1	0	0
102	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0
108	0	0	0	0	0	0	0	0	0	0
111	0	0	0	0	0	0	0	0	0	0
114	0	0	0	0	0	0	0	0	0	0
117	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
123	0	0	0	0	0	0	0	0	0	0
126	0	0	0	0	0	0	0	0	0	0
129	0	0	0	0	0	0	0	0	0	0
132	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0
138	0	0	0	0	0	0	0	0	0	0

141	0	0	0	0	0	0	0	0	0	0
144	0	0	0	0	0	0	0	0	0	0
147	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0
153	0	0	0	0	0	0	0	0	0	0
156	0	0	0	0	0	0	0	0	0	0
159	0	0	0	0	0	0	0	0	0	0
162	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
168	0	0	0	0	0	0	0	0	0	0
171	0	0	0	0	0	0	0	0	0	0
174	0	0	0	0	0	0	0	0	0	0
177	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

Luminaire Report Summary

IESNA:LM-63-2002
[TEST] MOT22LY44W5800LDMV40K
[TESTDATE] 22-Nov-2023 11:01:27
[TESTLAB] Radiant Vision Systems ProSource
[ISSUE DATE] 11/22/2023 11:37:46 AM
[MANUFAC] SAYLITE-TEXAS FLOURESCENTS REINVENTED
[LAMP] LED Module
[_TOTALLUMINAIRELUMENS] 5874.2
[_DRIVER TYPE] (1) OSRAM OT50W_1150MNA
[_BOARD/LAMP TYPE] (2) SEOUL "Y" BOARDS_4000K
[_COLOR TEMP] 4007 CCT
[_LUMEN/WATT] 133 LPW
[_CRI] 84.8
[_NUMBEROFRAYS]10000000
[OTHER] Absolute Photometry measurement

FILE: CREATED USING ABSOLUTE PHOTOMETRY
FILE: CANDELA MULTIPLIER: 1
FILE: VERTICAL ANGLES: 61, HORIZONTAL ANGLES: 10
FILE: COORDINATE SYSTEM: TYPE C
FILE: UNIT OF MEASURE: METRIC
FILE: BALLAST FACTOR: 1

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Reported data calculated from manufacturer's data file, based on IES recommended methods.