



Filename: MRT24LY45W6300LDMV40K

Manufacturer: SAYLITE-TEXAS FLOURESCENTS REINVENTED

Lamp: LED Module

Lamp Output: Total luminaire Lumens: 5985

Max Candela: 2,021.1 at Horizontal: 0°, Vertical: 6°

Input Wattage: 45

Luminous Opening: Rectangle w/Luminous Sides (L: 48.03", W: 24.02", H: 3.94")

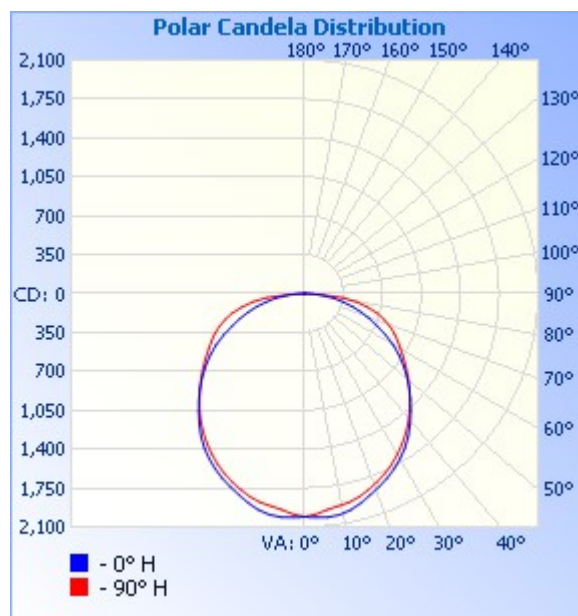
Test: MRT24LY45W6300LDMV40K

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:	41.8	
Max Cd, 80 to <90 Deg:	473.7	
	Lumens	% Lamp
Downward Street Side:	2,991.7	50%
Downward House Side:	2,991.7	50%
Downward Total:	5,983.4	100%
Upward Street Side:	1.3	0%
Upward House Side:	1.3	0%
Upward Total:	2.6	0%
Total Lumens:	5,986.0	100%

Flood Summary

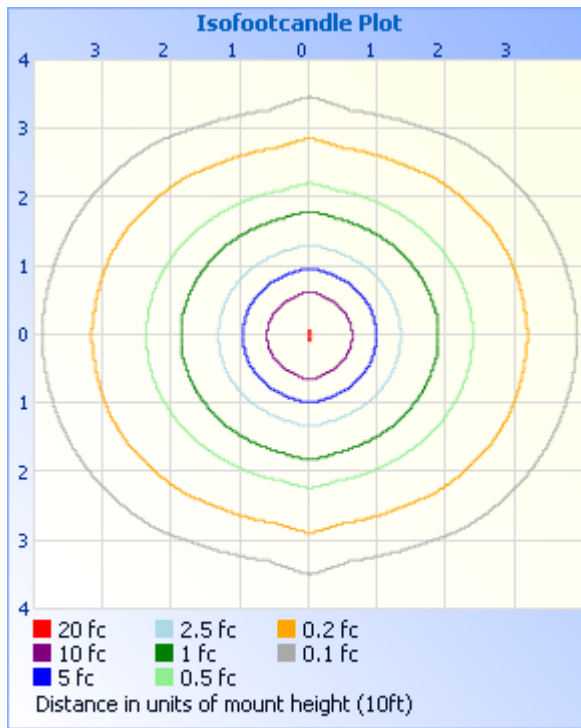
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	99%	5,924.2	172.1	166.9
Beam (50%):	68.7%	4,109.7	118.4	114.1
Total:	100%	5,983.7		

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1,527.8	25.5%
0-40	2,494.9	41.7%
0-60	4,431.5	74%
60-90	1,550.8	25.9%
70-100	780.5	13%
90-120	2.6	0%
0-90	5,982.3	100%
90-180	2.6	0%
0-180	5,985.0	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	188.3	3.1%	90-100	2.6	0%
10-20	535.2	8.9%	100-110	0.0	0%
20-30	804.4	13.4%	110-120	0	0%
30-40	967.0	16.2%	120-130	0	0%
40-50	1,008.7	16.9%	130-140	0	0%
50-60	927.9	15.5%	140-150	0	0%
60-70	772.9	12.9%	150-160	0	0%
70-80	558.1	9.3%	160-170	0	0%
80-90	219.8	3.7%	170-180	0	0%



Illuminance at a Distance

	Center Beam fc	Beam Width	
1.7R	695 fc	5.2 ft	5.7 ft
3.3R	184 fc	10.2 ft	11.1 ft
5.0R	80.3 fc	15.4 ft	16.8 ft
6.7R	44.7 fc	20.7 ft	22.5 ft
8.3R	29.1 fc	25.6 ft	27.9 ft
10.0R	20.1 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	2007	2007	2007	2007	2007	2007	2007	2007	2007	2007
3	2016	2016	2014	2009	2005	2000	1995	1991	1989	1988
6	2021	2018	2010	1998	1986	1975	1966	1959	1955	1954
9	2013	2006	1989	1968	1950	1940	1934	1932	1933	1935
12	1990	1977	1950	1925	1914	1906	1904	1908	1914	1920
15	1950	1935	1906	1881	1873	1873	1873	1880	1886	1892
18	1905	1893	1859	1837	1831	1837	1841	1850	1856	1855
21	1863	1847	1816	1792	1789	1796	1802	1819	1824	1816
24	1820	1801	1768	1740	1743	1751	1751	1774	1782	1773
27	1771	1750	1706	1685	1690	1699	1698	1715	1723	1723
30	1717	1691	1629	1618	1622	1632	1642	1659	1660	1668
33	1656	1624	1548	1555	1565	1574	1583	1600	1604	1611
36	1587	1547	1470	1502	1513	1520	1525	1537	1546	1550
39	1507	1468	1404	1434	1445	1456	1459	1475	1478	1483
42	1425	1385	1332	1357	1366	1377	1388	1405	1404	1412
45	1345	1300	1255	1270	1281	1302	1313	1330	1333	1339
48	1266	1215	1185	1185	1205	1225	1242	1256	1263	1266
51	1184	1133	1101	1103	1129	1136	1167	1181	1196	1196
54	1099	1046	1019	1011	1040	1048	1081	1107	1124	1128
57	1012	953	919	932	958	975	1004	1034	1057	1060
60	919	852	826	848	875	905	929	967	991	997
63	817	749	750	765	788	827	865	906	936	941
66	715	646	655	685	716	759	807	846	882	885
69	622	550	566	592	645	697	747	785	813	823
72	534	462	482	516	586	629	682	719	734	753
75	445	376	398	447	516	563	607	641	657	674
78	354	290	321	381	439	484	528	553	574	577
81	273	214	261	317	366	406	444	469	470	474
84	185	140	169	221	250	276	315	324	332	341
87	99	60	69	88	117	112	124	124	145	140
90	42	10	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] MRT24LY45W6300LDMV40K
[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] 5985
[_DRIVER TYPE] (1) OSRAM OT50W_1150MNA
[_BOARD/LAMP TYPE] (4) 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: 1.01886
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.