

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MOT24LY54WDMV35K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] MOT24LY54WDMV35K
[TESTDATE] 04-Aug-2023 07:45:59
[TESTLAB] Radiant Vision Systems ProSource
[ISSUEDATE] 8/4/2023 8:37:25 AM
[MANUFAC] SAYLITE-TEXAS FLOURESCENTS REINVENTED
[LAMP] LED Module
[_TOTALLUMINAIRELUMENS] 7613.36
[_DRIVER TYPE] OSRAM
[_BOARD/LAMP TYPE] (4) LS2477C_CCT
[_COLOR TEMP] 3773 CCT
[_LUMEN/WATT] 140 LPW
[_CRI] 87.4
[_NUMBEROFRAYS]10000000

CHARACTERISTICS

Lumens Per Lamp	7613.358 (1 lamp)
Total Lamp Lumens	7613.358
Luminaire Lumens	7594
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	54
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.19 m
Luminous Width (90-270)	0.61 m
Luminous Height	0.08 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3150	2991	3244
55	2674	2594	2947
65	2140	2150	2539
75	1721	1753	2191
85	1200	1142	1142

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MOT24LY54WDMV35K.IES

CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0	2967.258	2967.258	2967.258	2967.258	2967.258	2967.258	2967.258	2967.258	2967.258	2967.258
3	2944.830	2942.490	2937.414	2933.622	2925.990	2917.914	2912.424	2907.930	2904.972	2906.154
6	2913.984	2910.450	2903.178	2888.712	2872.092	2855.766	2841.726	2827.662	2819.172	2815.860
9	2889.036	2880.048	2861.220	2836.926	2817.960	2805.312	2794.128	2785.236	2779.536	2777.658
12	2860.770	2838.552	2801.958	2771.640	2762.964	2757.588	2757.660	2757.540	2758.278	2761.320
15	2815.932	2778.858	2730.192	2697.588	2690.316	2697.792	2706.222	2715.504	2717.292	2721.798
18	2749.824	2711.352	2648.472	2629.128	2625.828	2633.964	2645.262	2658.360	2666.070	2669.070
21	2664.210	2630.076	2578.524	2563.494	2569.926	2573.838	2582.808	2594.478	2605.824	2619.318
24	2576.946	2547.174	2496.906	2463.882	2489.394	2506.560	2512.710	2522.862	2537.670	2558.214
27	2501.520	2455.854	2382.864	2353.368	2386.950	2419.182	2437.362	2454.942	2467.548	2471.820
30	2418.336	2345.406	2254.812	2252.070	2278.194	2313.174	2345.214	2386.440	2397.354	2378.412
33	2305.848	2223.216	2131.188	2173.308	2197.386	2224.044	2244.546	2288.970	2309.436	2296.200
36	2167.926	2082.120	2002.770	2089.308	2109.288	2134.266	2146.680	2179.578	2203.662	2210.280
39	2015.952	1928.016	1885.794	1947.996	1979.970	2023.440	2039.460	2076.534	2102.718	2104.614
42	1865.352	1766.232	1758.762	1800.300	1845.990	1901.946	1931.748	1963.422	1996.878	1991.454
45	1726.104	1613.448	1619.250	1652.910	1714.938	1788.096	1820.334	1846.644	1874.580	1884.246
48	1583.958	1467.282	1477.476	1518.558	1592.460	1656.672	1698.474	1729.608	1743.870	1772.814
51	1425.906	1325.418	1306.602	1395.864	1457.964	1510.404	1563.906	1600.632	1622.352	1644.948
54	1267.968	1176.576	1173.576	1249.002	1303.110	1378.284	1428.774	1468.662	1493.190	1505.160
57	1126.272	1035.408	1033.638	1110.024	1171.260	1247.562	1305.990	1329.324	1363.434	1361.742
60	988.602	900.546	901.098	964.866	1047.120	1103.718	1164.096	1187.394	1225.680	1220.790
63	842.808	771.444	793.548	838.224	912.396	966.894	1027.908	1053.786	1088.724	1086.096
66	705.774	644.508	667.572	731.940	786.936	848.448	893.646	923.856	951.576	954.750
69	594.810	527.130	563.670	608.790	663.450	727.032	759.720	797.760	820.854	825.624
72	499.170	424.326	462.450	504.048	570.498	615.930	649.590	685.542	706.932	710.052
75	404.706	339.942	371.958	414.318	477.666	526.200	557.658	582.246	603.882	613.284
78	311.604	264.912	296.340	345.306	396.984	439.230	473.040	476.820	501.480	503.646
81	236.142	197.448	243.372	290.676	334.104	363.168	380.118	384.336	375.108	376.764
84	158.304	126.570	166.380	212.244	225.168	244.176	245.586	236.646	225.954	228.726
87	86.232	63.474	78.018	96.384	101.778	88.170	83.028	69.876	78.492	84.420
90	35.580	11.466	11.058	11.514	12.168	9.126	10.758	6.552	11.628	17.952
93	1.512	2.316	0.474	1.836	0.804	0.210	0.066	0.132	3.336	7.230
96	0.192	1.074	0.090	0.414	0.768	0.564	0.258	0.090	1.860	5.694
99	0.174	0.222	0.582	0.948	0.618	0.360	0.594	0.336	1.812	3.192
102	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.930	1.338
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.396	0.642
108	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
111	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
114	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
144	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
153	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
156	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MOT24LY54WDMV35K.IES

CANDELA TABULATION - (Cont.)

162	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MOT24LY54WDMV35K.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	852.65	11.20	11.20
0-30	2185.98	28.70	28.80
0-40	3397.8	44.60	44.70
0-60	6043.3	79.40	79.60
0-80	7325.42	96.20	96.50
0-90	7591.25	99.70	100.00
10-90	7369.12	96.80	97.00
20-40	2545.15	33.40	33.50
20-50	3771.92	49.50	49.70
40-70	3420.96	44.90	45.00
60-80	1282.12	16.80	16.90
70-80	506.65	6.70	6.70
80-90	265.84	3.50	3.50
90-110	3.16	0.00	0.00
90-120	3.16	0.00	0.00
90-130	3.16	0.00	0.00
90-150	3.16	0.00	0.00
90-180	3.16	0.00	0.00
110-180	0.00	0.00	0.00
0-180	7594.41	99.80	100.00

Total Luminaire Efficiency = 99.80%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	222.13
10-20	630.52
20-30	1333.33
30-40	1211.82
40-50	1226.77
50-60	1418.73
60-70	775.47
70-80	506.65
80-90	265.84
90-100	2.95
100-110	0.21
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MOT24LY54WDMV35K.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	94	105	101	97	93	96	93	90	92	90	87	89	87	85	82
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	69	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

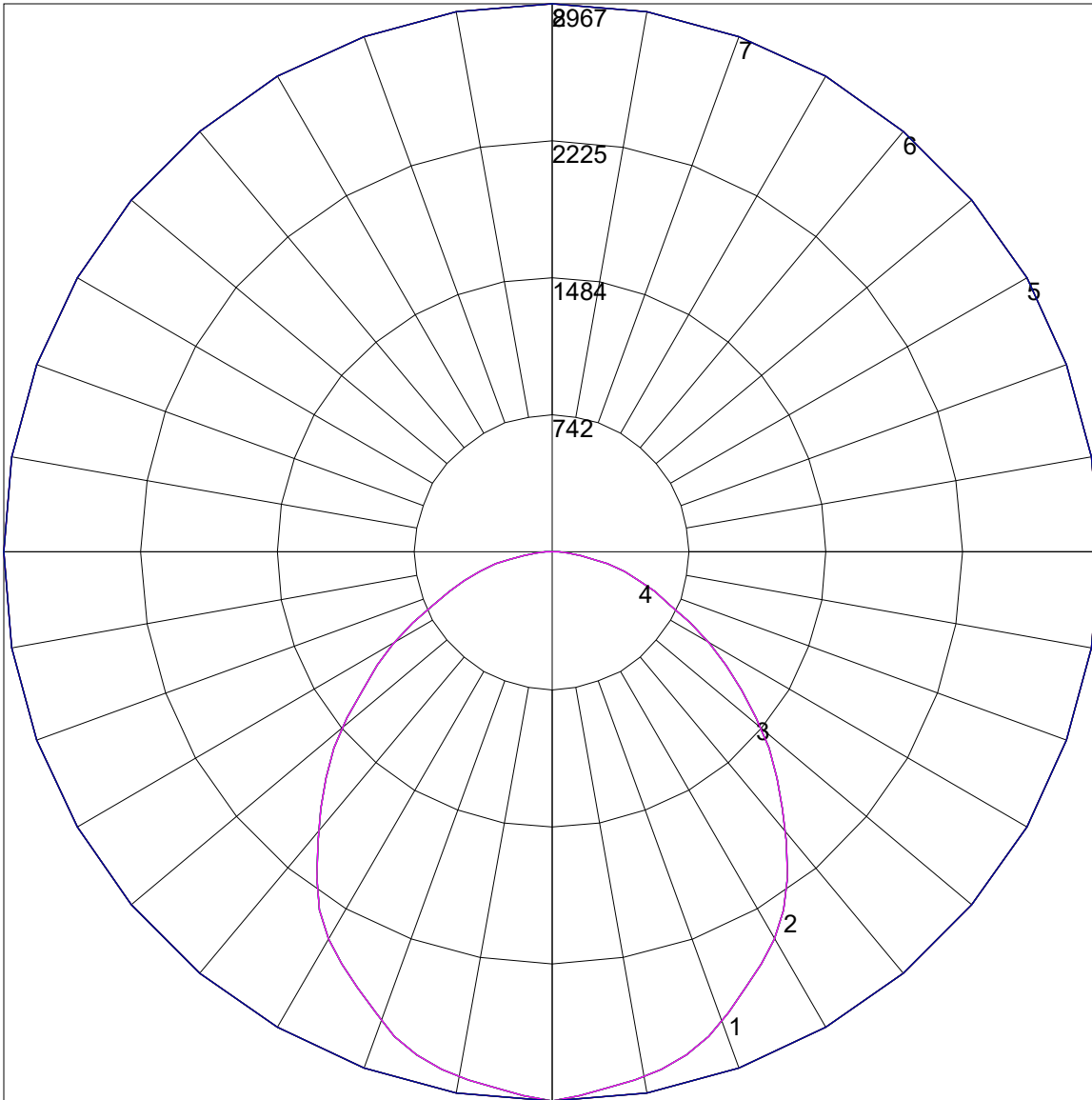
IES INDOOR REPORT
PHOTOMETRIC FILENAME : MOT24LY54WDMV35K.IES

UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	14.0	15.7	14.4	16.0	16.3	16.0	17.7	16.4	18.0	18.3
	3H	15.4	16.8	15.7	17.2	17.5	17.8	19.3	18.2	19.7	20.0
	4H	15.8	17.2	16.2	17.6	18.0	18.6	20.0	19.0	20.4	20.7
	6H	16.2	17.5	16.6	17.9	18.3	19.3	20.6	19.7	20.9	21.3
	8H	16.4	17.6	16.8	18.0	18.4	19.5	20.7	19.9	21.1	21.5
	12H	16.4	17.6	16.9	18.0	18.5	19.6	20.8	20.0	21.2	21.6
4H	2H	14.8	16.2	15.2	16.6	17.0	16.4	17.8	16.8	18.2	18.6
	3H	16.4	17.6	16.8	18.0	18.4	18.5	19.7	18.9	20.0	20.4
	4H	17.0	18.0	17.4	18.4	18.9	19.4	20.5	19.8	20.9	21.3
	6H	17.4	18.4	17.9	18.8	19.3	20.2	21.2	20.7	21.6	22.1
	8H	17.6	18.5	18.0	18.9	19.4	20.5	21.4	20.9	21.8	22.3
	12H	17.7	18.5	18.2	19.0	19.4	20.7	21.5	21.1	21.9	22.4
8H	4H	17.5	18.3	17.9	18.8	19.2	19.6	20.5	20.0	20.9	21.4
	6H	18.1	18.8	18.6	19.3	19.8	20.6	21.3	21.1	21.8	22.3
	8H	18.3	19.0	18.8	19.5	20.0	20.9	21.6	21.4	22.1	22.6
	12H	18.5	19.1	19.0	19.6	20.1	21.2	21.8	21.7	22.3	22.8
12H	4H	17.6	18.4	18.0	18.8	19.3	19.6	20.4	20.1	20.9	21.4
	6H	18.3	18.9	18.8	19.4	19.9	20.6	21.3	21.1	21.8	22.3
	8H	18.6	19.2	19.1	19.7	20.2	21.0	21.6	21.5	22.1	22.7

Maximum UGR = 22.8

POLAR GRAPH



Maximum Candela = 2967.258 Located At Horizontal Angle = 0, Vertical Angle = 0

- # 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
- # 2 - Vertical Plane Through Horizontal Angles (0 - 180)
- # 3 - Vertical Plane Through Horizontal Angles (0 - 180)
- # 4 - Vertical Plane Through Horizontal Angles (0 - 180)
- # 5 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)
- # 6 - Horizontal Cone Through Vertical Angle (0)
- # 7 - Horizontal Cone Through Vertical Angle (0)
- # 8 - Horizontal Cone Through Vertical Angle (0)