



H E Williams Inc  
Catalog Number  
**MDS-24-L200/840-SYM**

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**Electrical Test Conditions**

Temp	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.5 °C	120.0 VAC	1.430 A	171.0 W	0.997	60 Hz	6.02 %

**Summary of Results**

Total Lumen Output	22120 Lumens
Luminaire Efficacy	129.4 lm/w
Maximum Candela	9414 Candela
CCT	4189 K
CRI	83.5
Duv	0.0002
TM-30 Rf	83.1
TM-30 Rg	97.0

**Zonal Lumen Summary**

Zone	Lumens	% Luminaire
0-30	7005	32.2%
0-40	11131	51.1%
0-60	18021	82.8%
0-90	21764	100.0%
40-90	10633	48.9%
60-90	3743	17.2%
90-180	0	0.0%
0-180	21764	100.0%

**Spacing Criteria**

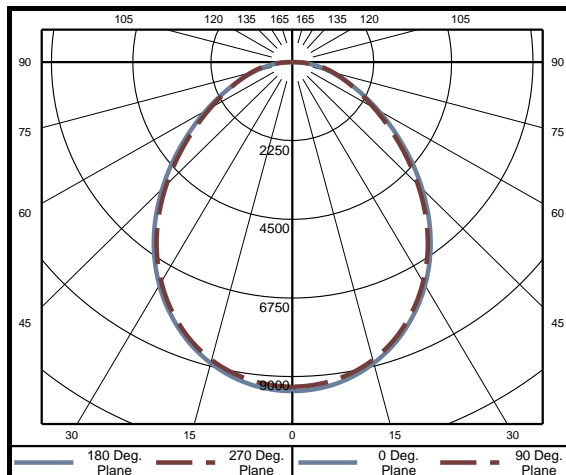
0-180	1.18
90-270	1.18

**Average Luminance cd/m<sup>2</sup>**

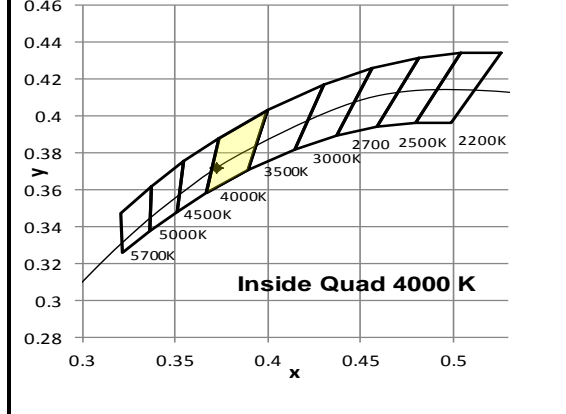
Vertical Angle	Horizontal Angle 0°
0	16430
45	12710
55	10690
65	8845
75	7755
85	8077

**Cone of Light Tabulation**

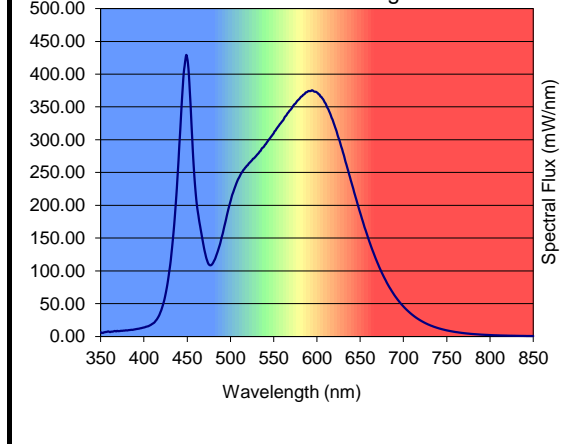
Mounting Height (Ft)	Footcandles at Nadir	Diameter (Ft)
4.00	583	4.69
6.00	259	7.03
8.00	146	9.37
10.0	93.3	11.7
12.0	64.8	14.1
14.0	47.6	16.4
16.0	36.4	18.7



**Nominal CCT Quadrangles**



**Flux vs Wavelength**



**Intensity (Candlepower) Summary**

Angle	Mean CP	Lumens
0	9327	
5	9272	880
10	9105	
15	8786	2485
20	8422	
25	7914	3640
30	7307	
35	6612	4126
40	5835	
45	5004	3857
50	4171	
55	3383	3033
60	2673	
65	2063	2059
70	1564	
75	1150	1223
80	790	
85	433	460
90	44	

**Color Rendering Index Details**

Ra (CRI)	83.5
R1	81.9
R2	88.6
R3	94.1
R4	83.6
R5	82.5
R6	84.8
R7	86.5
R8	66.2
R9	10.1
R10	73.5
R11	83.3
R12	67.0
R13	83.3
R14	96.8

**Chromaticity Coordinates**

Chromaticity (x)	0.3724
Chromaticity (y)	0.3718
Chromaticity (u)	0.2218
Chromaticity (v)	0.3321
Chromaticity (u')	0.2218
Chromaticity (v')	0.4982
Duv	0.0002

Testing was performed in accordance with LM-79-08  
The results contained in this summary pertain only to report #12186363.03