



H E Williams Inc
Catalog Number
MDSG-24-L200/840-SYM/ASY

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Electrical Test Conditions

Temp	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.0 °C	120.0 VAC	1.436 A	171.7 W	0.997	60 Hz	6.00 %

Summary of Results

Total Lumen Output	21680 Lumens
Luminaire Efficacy	126.4 lm/w
Maximum Candela	9270 Candela
CCT	4188 K
CRI	83.8
Duv	0.0003
TM-30 Rf	83.3
TM-30 Rg	96.8

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	6582	31.1%
0-40	10543	49.9%
0-60	17423	82.4%
0-90	21143	100.0%
40-90	10600	50.1%
60-90	3720	17.6%
90-180	0	0.0%
0-180	21143	100.0%

Spacing Criteria

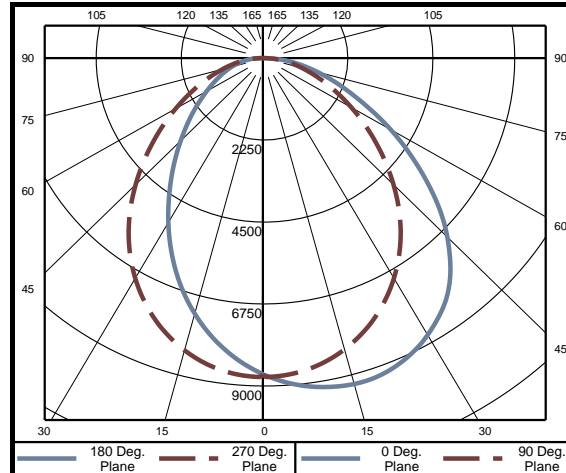
0-180	1.45
90-270	0.94

Average Luminance cd/m²

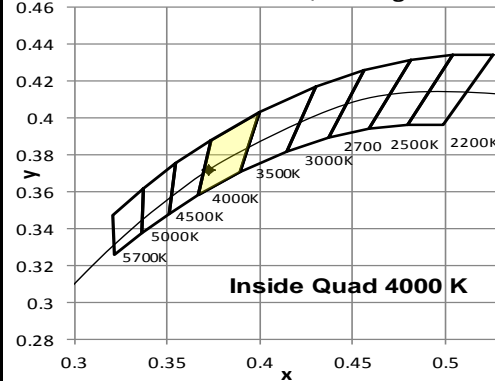
Vertical Angle	Horizontal Angle 0°
0	15300
45	17090
55	14890
65	12120
75	10260
85	9718

Cone of Light Tabulation

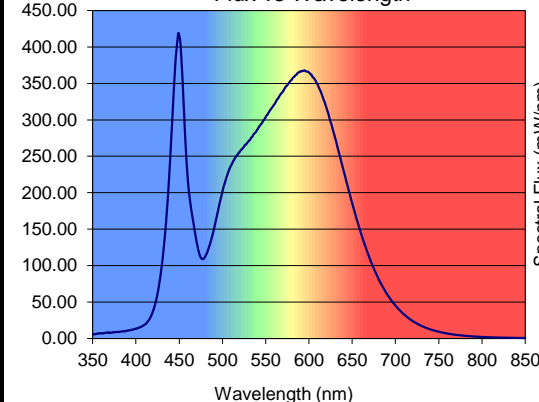
Mounting Height (Ft)	Footcandles at Nadir	Diameter (Ft)
4.00	543	4.77
6.00	241	7.15
8.00	136	9.54
10.0	86.9	11.9
12.0	60.3	14.3
14.0	44.3	16.7
16.0	33.9	19.1



Nominal CCT Quadrangles



Flux vs Wavelength



Intensity (Candlepower) Summary

Angle	Mean CP	Lumens
0	8686	
5	8639	820
10	8495	
15	8222	2325
20	7907	
25	7466	3436
30	6942	
35	6344	3961
40	5671	
45	4936	3803
50	4179	
55	3437	3077
60	2741	
65	2115	2107
70	1579	
75	1127	1201
80	742	
85	380	412
90	35	

Color Rendering Index Details

Ra (CRI)	83.8
R1	82.1
R2	88.9
R3	94.3
R4	83.8
R5	82.7
R6	85.1
R7	86.6
R8	66.4
R9	11
R10	74.1
R11	83.4
R12	67.1
R13	83.7
R14	96.9

Chromaticity Coordinates

Chromaticity (x)	0.3725
Chromaticity (y)	0.3718
Chromaticity (u)	0.2218
Chromaticity (v)	0.3321
Chromaticity (u')	0.2218
Chromaticity (v')	0.4982
Duv	0.0003

Testing was performed in accordance with LM-79-08
The results contained in this summary pertain only to report #12186363.04