

NOTES ABOUT LIGHT QUALITY METRICS DATA:

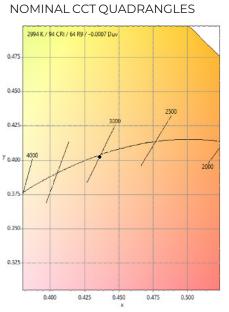
- Values shown are TYPICAL actual performance of individual units may vary
- The data presented has been generated in accordance with LM-79-08
- A complete summary of LM-79-08 data is provided for a nominal 1'x1' (300mm x 300mm) area assuming the High Flux option for SkySpan/SkyLine - Suspendend and Surface Mount; however, spectral and color rendering data is applicable to models of the same CCT at all flux levels including:
 - Spectral Power Distribution (SPD)
 - Nominal CCT
 - Chromaticity
 - R_f and R_g (TM-30-15)
 - CRI (R) and R-values
 - D_{uv}

SELECTED DEFINITIONS

- Candlepower: As presented in this document it is the same as "candela" the SI unit of measurement for light intensity.
- CRI (R_a): The general Color Rendering Index based on 8 CIE reference pastel color samples.
- \mathbf{D}_{uv} : The American National Standards Institute (ANSI) references \mathbf{D}_{uv} , a metric based on the CIE 1976 color space that quantifies the distance between the chromaticity of a given light source and a blackbody radiator of equal CCT. A negative \mathbf{D}_{uv} indicates that the source is "below" the Planckian locus (blackbody curve), potentially having a red/blue tint, whereas a positive \mathbf{D}_{uv} indicates that the source is "above" the curve, potentially exhibiting a green tint.
- Nominal CCT Quadrangles: ANSI has defined acceptable chromaticity quadrangles for LED binning in relation to the blackbody curve within CIE color space. The data presented shows the typical chromaticity coordinate within the relevant quadrangle.
- R-value (R_i): The R-value is a mathematical calculation measuring how similar a light source renders a particular color compared to a reference blackbody source of the same CCT. R-values are not absolute and therefore cannot be used as a specific measurement of color rendering. For example, a 2700K source may have a lower R9 value than a 5700K source, however, in absolute terms the 2700K source will render saturated red much better than the 5700K source because of the relative abundance of red in the spectral power distribution (SPD) for the 2700K source in comparison.
- R1-R15: The data presented include the special CRI set of CIE 14 samples and the Japanese Industrial Standard (JIS) for R15.
- R; The IESNA TM-30-15 technical memorandum for measuring color rendering defines a "fidelity" index, R, that is similar to CRI and quantifies the average difference in appearance between the test source and a reference source based on 99 reference colors.
- R_g: The IESNA TM-30-15 technical memorandum for measuring color rendering defines a "gamut" index, R_g, that quantifies the average difference in color saturation between the test source and a reference source based on 99 reference colors.

LIGHTING PROPERTIES: TYPICAL PERFORMANCE TEST CONDITIONS

	Temp ((°C)		DC Voltage (V)	
	25.0)		54	
COLOR RENDERING INDEX DETAILS				0 MIN	
	Refernce	Value		0.475	
	R1	95		0.450	
	R2	99		0.450	
	R3	98		0.425	
	R4	92		У 0.400 ⁴	4000
	R5	94		0.3/5	1
	R6	97		0.313	1
	R7	91		0.350	
	R8	83		0.325	
	R9	64		_	0.400
	R10	95		CLI	
	R11	94		CH	ROM Chro
	R12	78			Chro
	R13	96			Chro
					Chr



Current (A) 0.0907

4.9

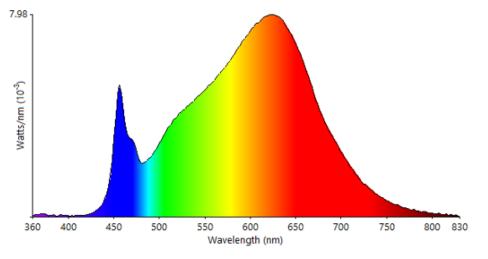
CHROMATICITY COORDINATES

Chromaticity (x)	0.4364
Chromaticity (y)	0.4022
Chromaticity (u)	0.2510
Chromaticity (v)	0.3470
Chromaticity (u')	0.2510
Chromaticity (v')	0.5206
Duv	-0.0007

SPECTRAL POWER DISTRIBUTION (SPD)

100

91



Testing was performed in accordance with LM-79-08.

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O +16042732665 F +16042732660 T +18444554448 W cooledgelighting.com Cooledge Lighting reserves the right to change materials or modify the design of its product without notification as part of the company's continuing product improvement program.

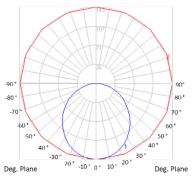
SUMMARY OF RESULTS

Total Lumen Output	395 Lumens	
Luminaire Efficacy	81 lm/W	
Maximum Candela	142.8 Candela	
ССТ	2994 K	
CRI	94	
R9	64	
TM-30 R _f	90	
TM-30 R _g	97	

INTENSITY (CANDLEPOWER) SUMMARY

•			
Angle	Mean CP	Lumens	
0	100%	100%	
5	5 99%		
10	98%	98%	
15	95%		
20	92%	0.00/	
25	87%	90%	
30	82%	78%	
35	76%		
40	70%	63%	
45	63%		
50	56%	45%	
55	48%		
60	42%	200/	
65	34%	28%	
70 26%		400/	
75	19%	13%	
80	80 12%		
85	5%	3%	
90	0%		

POLAR GRAPH



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R14

R15