



Light Measurement Report

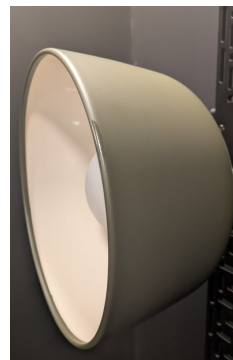
Print date: 10/22/2025

Measurement date and time: 10/22/2025 1:56:06 PM – Measurement no. VFR-251022-0274-MS

Operator: Shawn Blaszak

Tested Light Source

Product Name	Dram: DR-S-PC37_PC78-MTP-27-1_10V_UNV
Manufacturer	RBW
Product Description	Dram-Small-Army Green_Heratige Cream-Matte PET-2700K-1% Dimming, 0-10V Control-120V to 277V "Universal Input" (Driver External), Input Current: 300mA, Driver Model: ERP ESS015W-0300-42



Light Quality

CRI: 91.3

Color Temperature

2598 K

Color Match

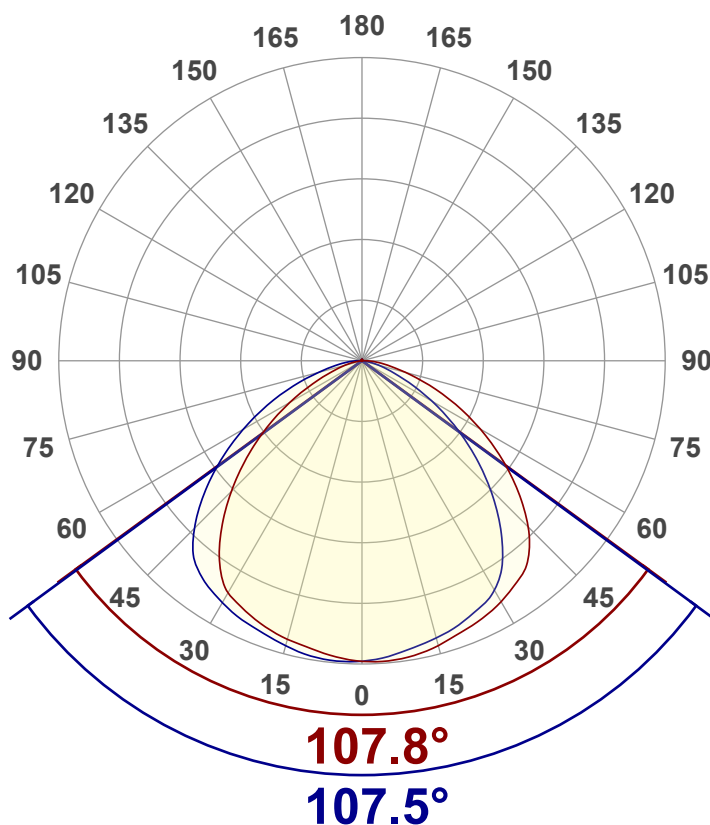
CIE1931
x: {CIEx#}
y: {CIEy#}

Summary of Results

Total Lumen Output	806 lm
Luminaire Efficacy	68 lm/W
Peak Intensity and Beam Angle	298 cd - 107.7°
Color Rendering TM13-18	R _r 90.9 – R _g 97.6
Color Shift, CIE duv	Duv 0.0008
MacAdams Steps	3
Flicker	SVM n/a – PstLM n/a
Input Power, Power and Displ. Factors	11.9 W – PF 0.99 – DPF 1.0
Input RMS Voltage and Current	119 V – 0.101 A
Frequency of Input Power	60 Hz

Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	806 lm
Lumen Up% / Down%	0.57% / 99.43%
Peak Intensity	298 cd
Beam Angle (50%-FWHM)	107.66°

Cut-off Angle

Average 2,5%	168.8°
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Field Angle

Average 10%	149.5°
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Intensity Ratio

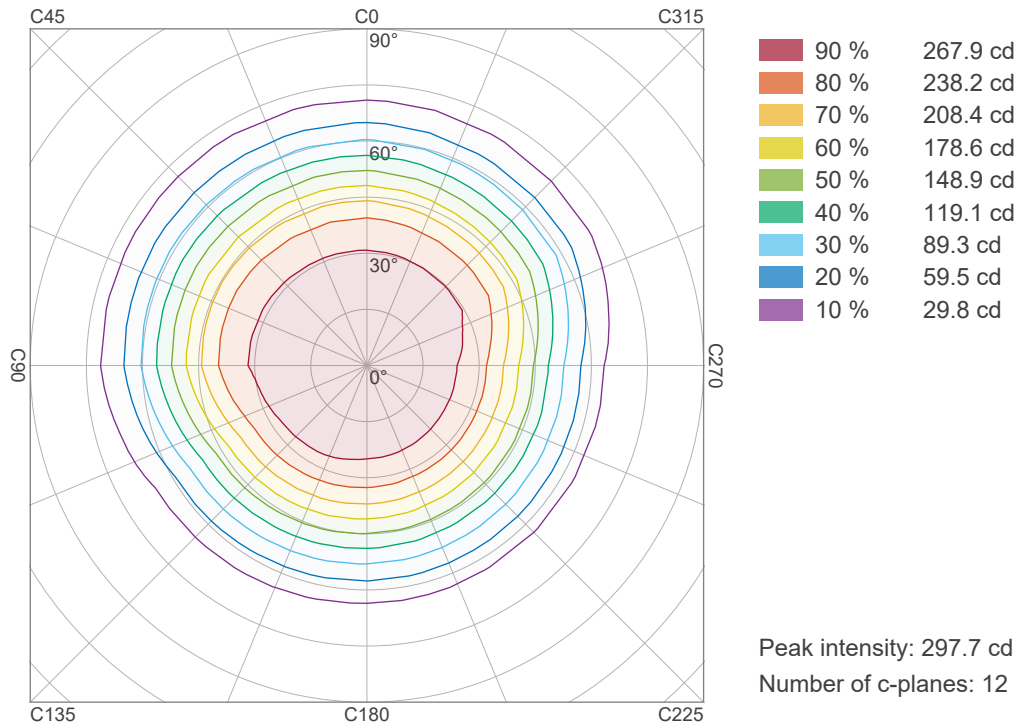
In 120° cone	84.6%
In 90° cone	59.4%

C000-C180

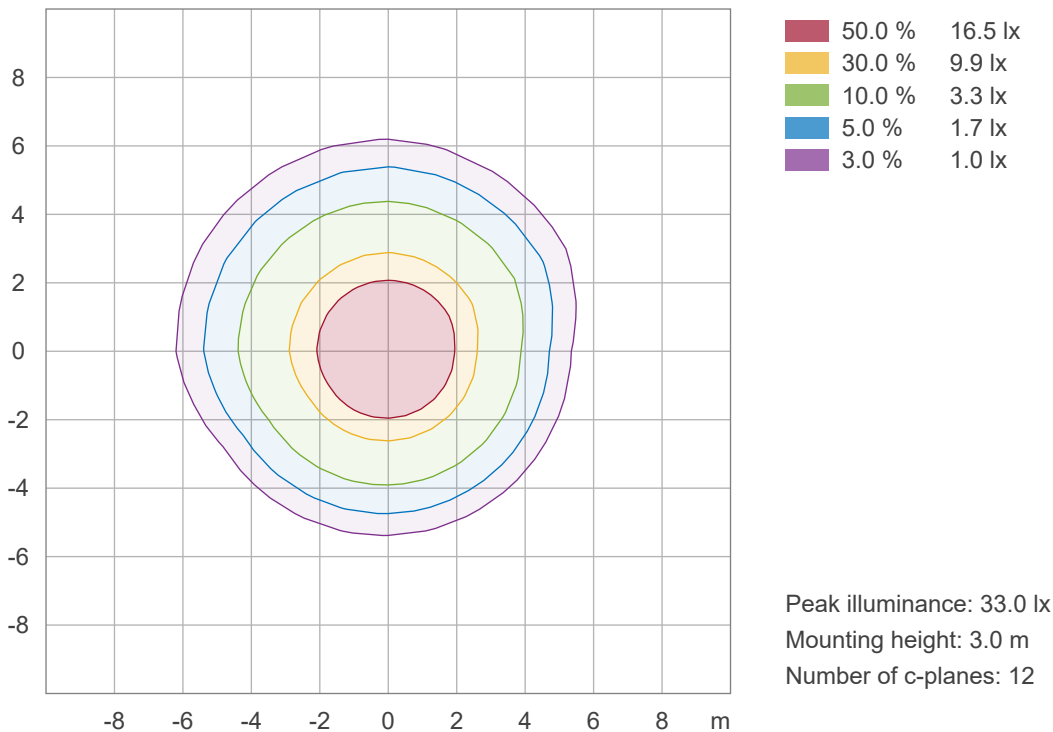
C090-C270



Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)





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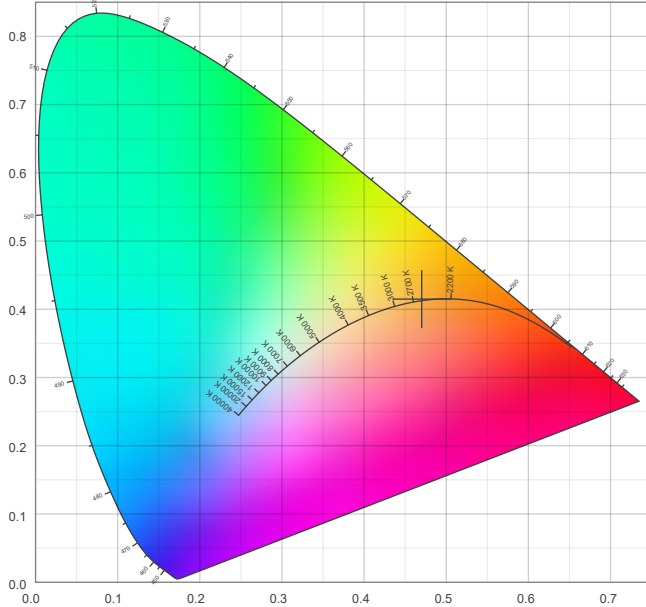
Operator: Shawn Blaszk

Color details

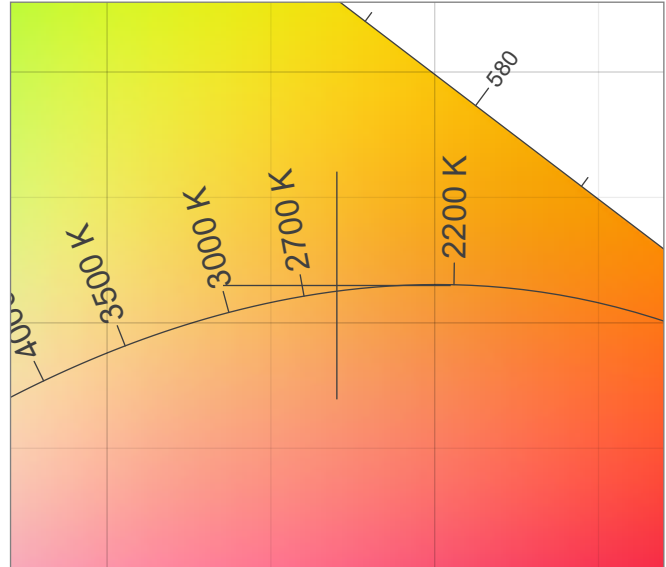
Correlated Color Temperature, Target CCT = 2598 K
Correlated Color Temperature, Measured CCT = 2598 K
Color Rendering Index CRI 91.3
Color Rendering Index, R9 (red component) R9 = 48.6
Color Rendering TM30-18 R_r 90.9 – R_g 97.6
Color Quality Scale CQS = 89.2

MacAdam Steps 3
Color coordinates CIE 1931 (x;y) = (0.470;0.415)
Color coordinate CIEs 1960 (u;v) = (0.267;0.354)
Color deviation from BBL Duv = 0.0008
Color coordinate CIEs 1976 (CIELUV)(u';v') = (0.267;0.531)

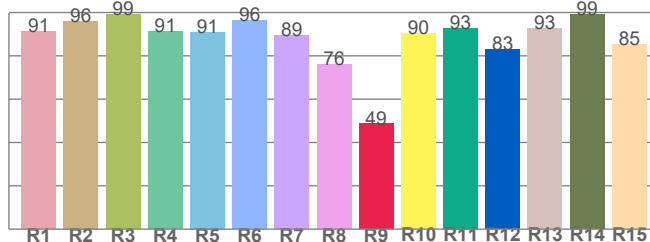
CIE 1931



CIE 1931 – zoomed on Planckian locus



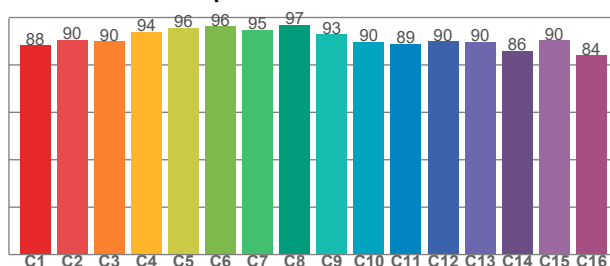
Color Rendering Index per reference color (CIE 1995)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
91.2	96.1	99.0	91.3	91.0	96.4	89.4	76.1	48.6	90.3	92.9	83.0	92.5	99.2	85.1

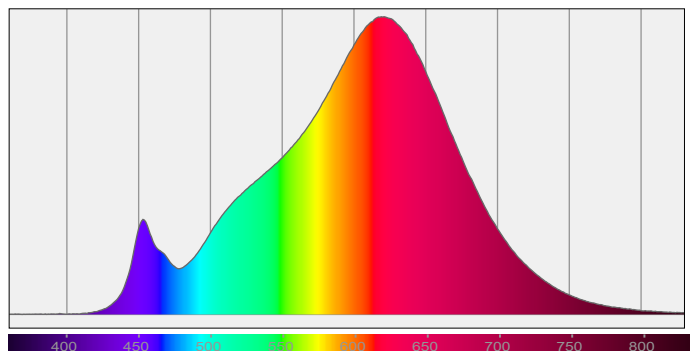
TM30-18 Rf-values per hue bin



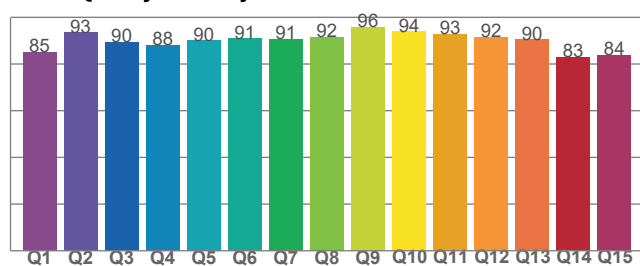
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
88.2	90.4	89.9	93.8	95.5	96.2	94.8	96.8	92.8	89.6	88.9	89.9	89.6	86.1	90.4	84.0

Spectral power distribution (SPD) / W/nm – 0-100%



Color Quality Scale by reference color



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
85.1	93.4	89.5	88.1	90.1	90.8	90.7	91.6	95.7	93.8	92.7	91.6	90.4	83.0	83.7



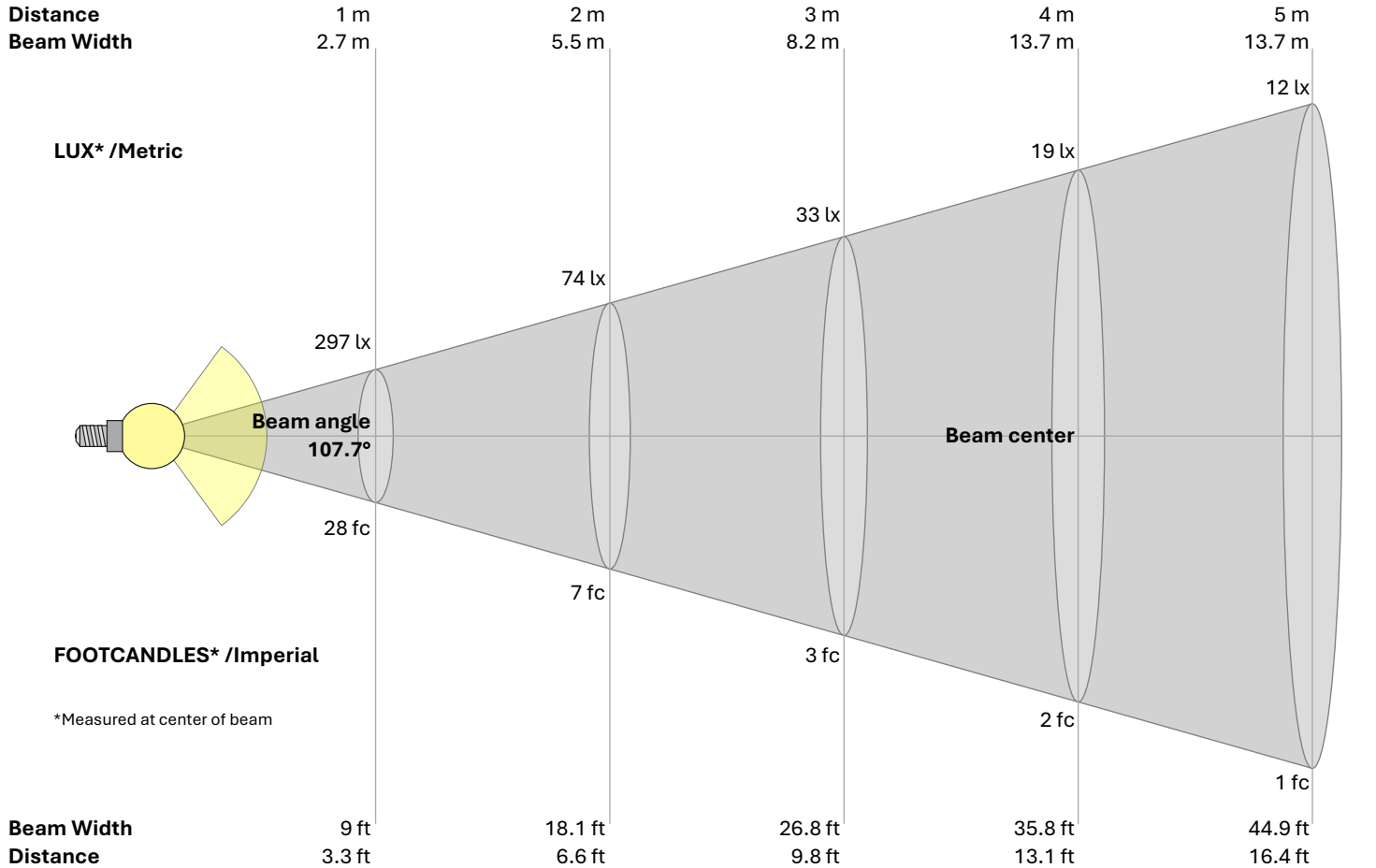
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Beam Details



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	m
3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6	ft
297	74	33	19	12	8	6	5	4	3	2	2	2	2	1	1	1	1	1	1	lux
27.6	6.9	3.1	1.7	1.1	0.8	0.6	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	fc

Intensities in 0° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
297	297	296	291	286	281	275	267	254	232	201	169	135	102	72	45	27	14	5	0	cd
100%	100%	100%	98%	96%	95%	93%	90%	86%	78%	68%	57%	46%	34%	24%	15%	9%	5%	2%	0%	of 0°val

Intensities in 90° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
297	293	288	283	278	271	261	241	212	179	145	112	80	52	31	18	8	1	0	0	cd
100%	99%	97%	95%	94%	91%	88%	81%	71%	60%	49%	38%	27%	18%	10%	6%	3%	0%	0%	0%	of 0°val

Intensities in 180° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
297	294	289	285	280	273	264	244	215	182	148	115	83	54	32	18	8	2	0	0	cd
100%	99%	97%	96%	94%	92%	89%	82%	73%	61%	50%	39%	28%	18%	11%	6%	3%	1%	0%	0%	of 0°val

Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
297	298	296	291	286	282	276	268	257	233	203	170	136	103	72	45	27	14	5	1	cd
100%	100%	100%	98%	96%	95%	93%	90%	86%	79%	68%	57%	46%	35%	24%	15%	9%	5%	2%	0%	of 0°val