



Light Measurement Report

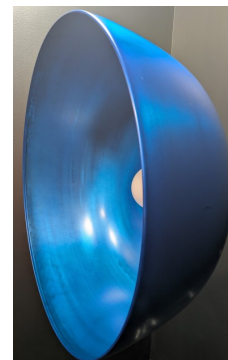
Print date: 10/3/2025

Measurement date and time: 9/29/2025 4:28:08 PM – Measurement no. VFR-250929-0178-MS

Operator: Shawn Blaszk

Tested Light Source

Product Name Dram: DR-L-PC52_PC52-MTP-27-1_10V_UNV
Manufacturer RBW
Product Description Dram-Large-Blue "Anodized" _Blue "Anodized"-Matte PET-27-1% Dimming, 0-10V Control, 120V -277V "Universal Input" (Driver External), Input Current: 400mA, Driver Model: ERP ESS020W-0400-42



Light Quality

CRI: 95.4

Color Temperature

2974 K

Color Match

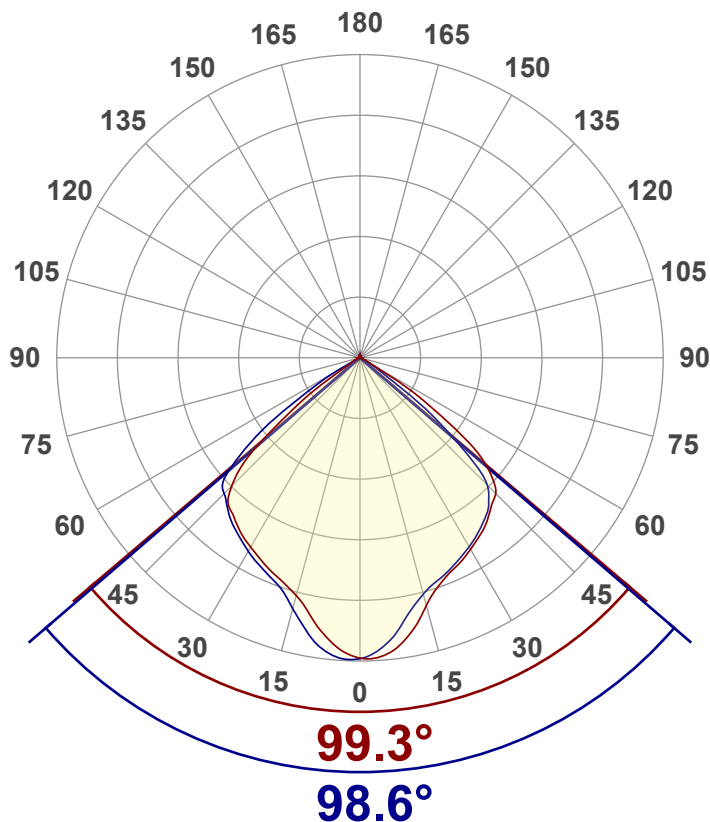
CIE1931
x: {CIEx#}
y: {CIEy#}

Summary of Results

Total Lumen Output 598 lm
Luminaire Efficacy 35 lm/W
Peak Intensity and Beam Angle 326 cd - 98.8°
Color Rendering TM13-18 R_r 93.4 – R_g 99.5
Color Shift, CIE duv Duv -0.0019
MacAdams Steps 3
Flicker SVM 0.41 – PstLM 0.01
Input Power, Power and Displ. Factors 16.9 W – PF 0.99 – DPF 1.0
Input RMS Voltage and Current 120 V – 0.142 A
Frequency of Input Power 60 Hz

Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen) 598 lm
Lumen Up% / Down% 1.08% / 98.92%
Peak Intensity 326 cd
Beam Angle (50%-FWHM) 98.85°

Cut-off Angle

Average 2,5% 124.5°

Field Angle

Average 10% 116.6°

Intensity Ratio

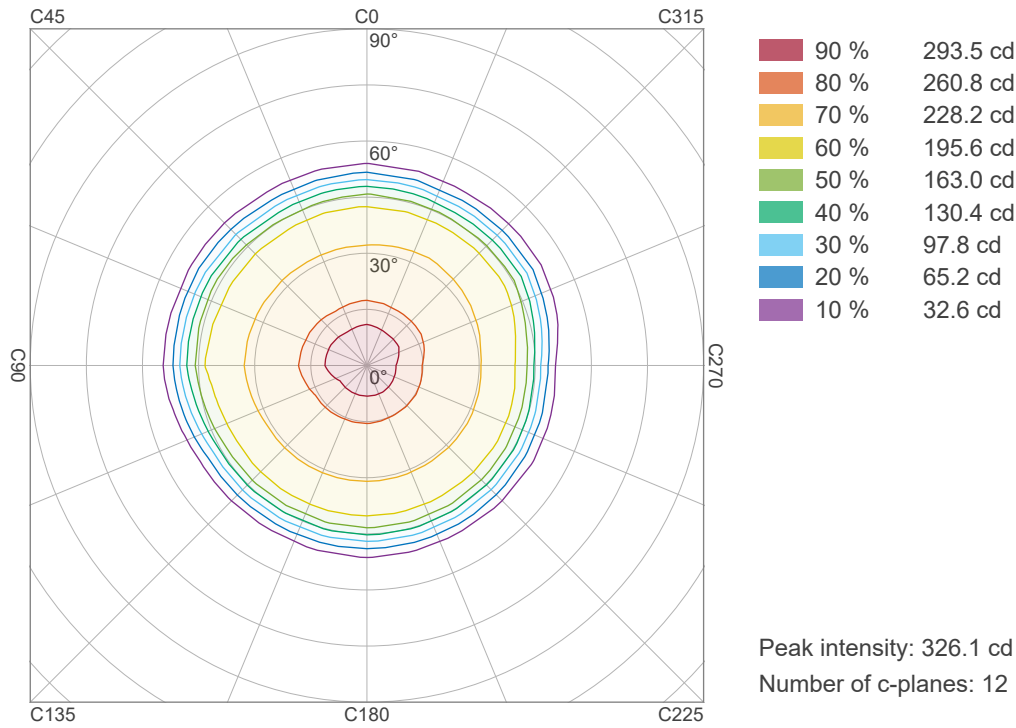
In 120° cone 97.6%
In 90° cone 73.8%

C000-C180

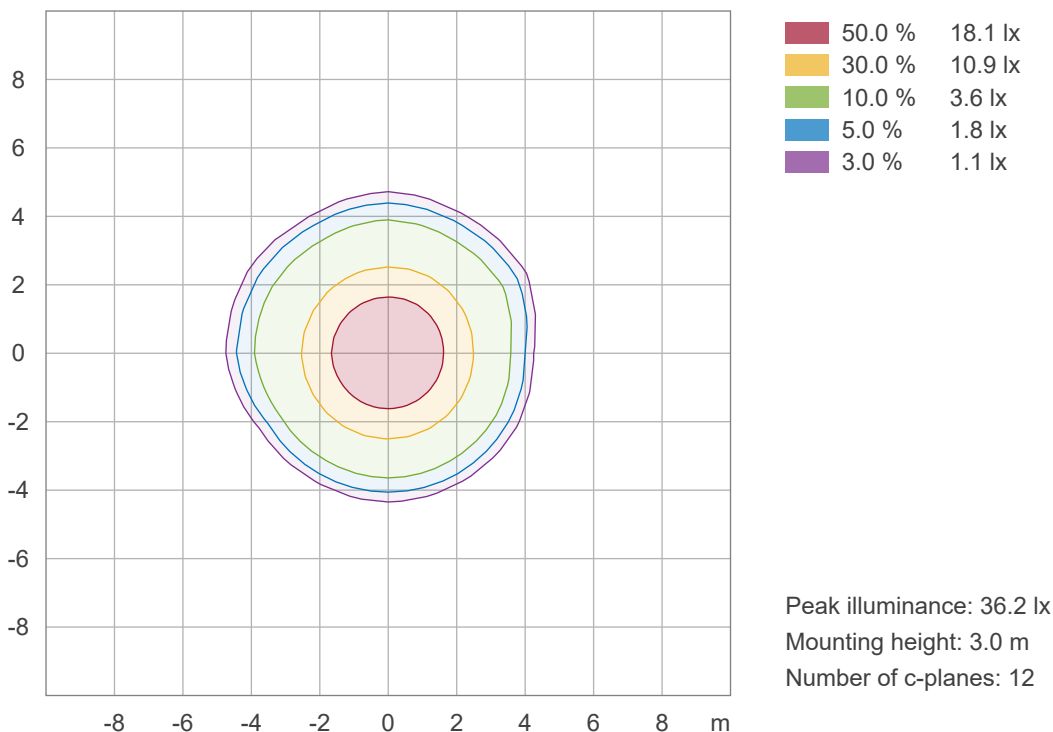
C090-C270



Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)





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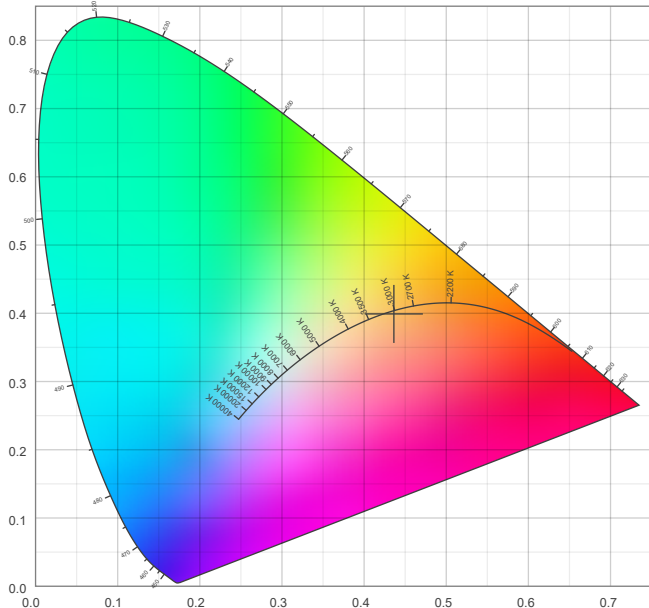
Operator: Shawn Blaszk

Color details

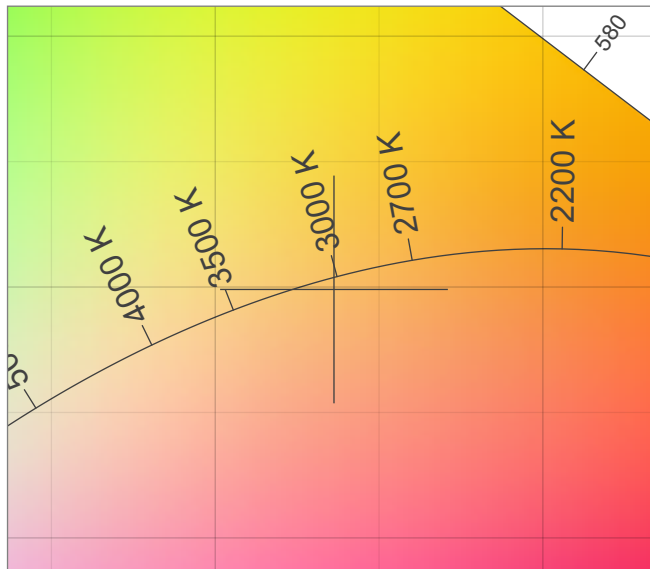
Correlated Color Temperature, Target CCT = 2974 K
Correlated Color Temperature, Measured CCT = 2974 K
Color Rendering Index CRI 95.4
Color Rendering Index, R9 (red component) R9 = 72.0
Color Rendering TM30-18 R_r 93.4 – R_g 99.5
Color Quality Scale CQS = 94.0

MacAdam Steps 3
Color coordinates CIE 1931 (x;y) = (0.436;0.399)
Color coordinate CIEs 1960 (u;v) = (0.252;0.346)
Color deviation from BBL Duv = -0.0019
Color coordinate CIEs 1976 (CIELUV)(u';v') = (0.252;0.519)

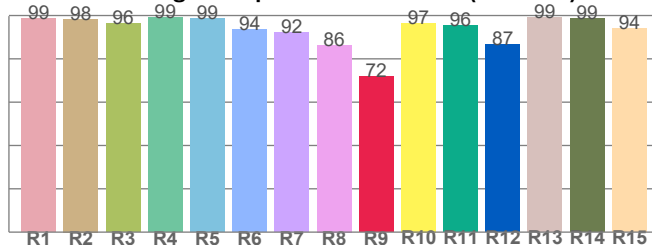
CIE 1931



CIE 1931 – zoomed on Planckian locus



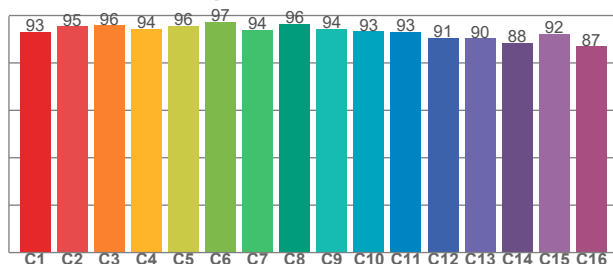
Color Rendering Index per reference color (CIE 1995)



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
98.7	98.4	96.4	99.2	98.8	93.6	92.0	86.4	72.0	96.5	95.5	86.7	99.1	98.7	94.1

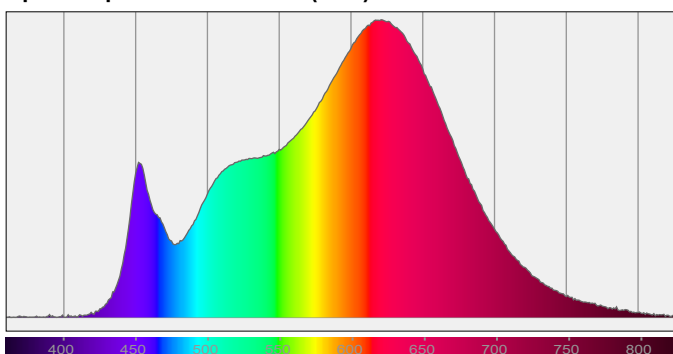
TM30-18 Rf-values per hue bin



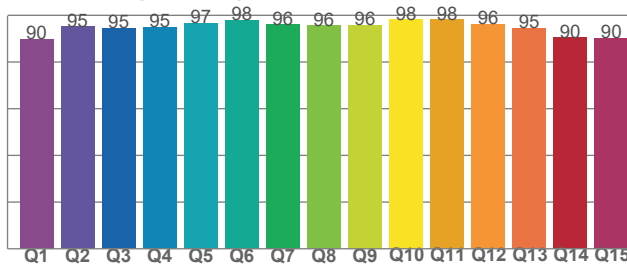
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93.0	95.4	95.8	94.5	95.7	97.3	93.8	96.4	94.4	93.3	93.1	90.5	90.4	88.4	92.1	87.0

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
89.8	95.1	94.5	95.1	96.7	97.9	96.1	95.5	95.9	98.2	98.2	96.4	94.7	90.4	90.1



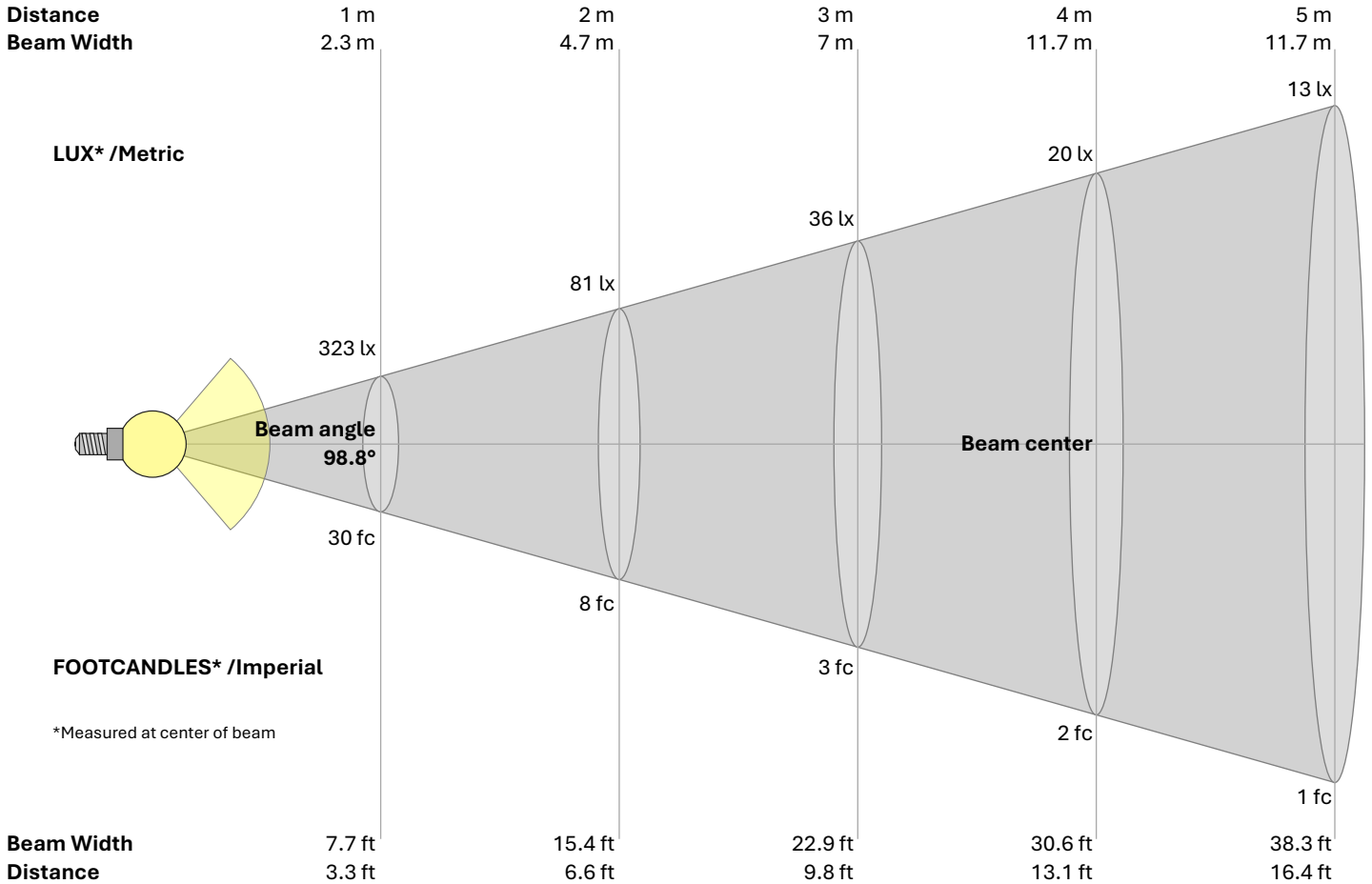
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Beam Details



Beam intensities from 1 – 20 m																				
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
323	81	36	20	13	9	7	5	4	3	3	2	2	2	1	1	1	1	1	1	lux
30	7.5	3.3	1.9	1.2	0.8	0.6	0.5	0.4	0.3	0.2	0.2	0.2	0.2	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
323	321	304	278	259	248	239	230	218	205	171	101	33	6	2	1	1	0	0	0	cd
100%	99%	94%	86%	80%	77%	74%	71%	67%	63%	53%	31%	10%	2%	1%	0%	0%	0%	0%	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
323	311	286	265	254	245	236	226	214	190	124	48	10	3	2	2	1	1	0	1	cd
100%	96%	89%	82%	79%	76%	73%	70%	66%	59%	38%	15%	3%	1%	1%	1%	0%	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
323	311	289	267	255	245	236	227	215	193	136	58	11	4	3	2	1	1	1	0	cd
100%	96%	89%	83%	79%	76%	73%	70%	67%	60%	42%	18%	4%	1%	1%	1%	0%	0%	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
323	322	306	281	262	251	241	231	220	206	176	107	37	5	2	2	1	0	0	0	cd
100%	100%	95%	87%	81%	78%	75%	72%	68%	64%	54%	33%	12%	2%	1%	0%	0%	0%	0%	0%	of 0°val