



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4DS-L10-940-DIM-UNV-AWW-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN from BALLABS TEST NO. 20326.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 17 DEC, 2025
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] GEN7 V13 LED 4"SHORT HEATSINK 4"SQ CAST HOUSING DOWNLIGHT
 [LUMINAIRE] WHITE MIXING CHAMBER & 4"CAST SG WALLWASH w/SOLITE LENS
 [LUMINAIRE] ADVANCE # XI025C070V054DSM1 @ 625mA
 [LUMCAT] 4DS-L10-940-DIM-UNV-AWW-OF-WH
 [LAMPCAT]BXRE-352000
 [SEARCH_SOURCETYPE] LED
 [SEARCH_APPLICATION] Indoor, Classroom, Office, Downlight
 [SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	658
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	55
Total Luminaire Watts	12
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.80
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.90
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.33 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17685	17858	14286
55	15482	14701	10439
65	12723	11180	6169
75	8971	6295	2518
85	0	0	0

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0	590.140	590.140	590.140	590.140	590.140	590.140	590.140	590.140	590.140
5	593.501	592.240	592.660	594.341	592.240	589.300	586.360	581.320	580.480
10	576.699	577.119	585.940	589.720	585.100	579.220	577.539	572.499	570.819
15	530.076	538.057	561.578	565.359	554.438	555.698	558.638	544.357	536.377
20	422.549	452.791	504.454	484.713	466.652	482.613	505.715	479.673	456.151
25	271.339	304.101	386.426	336.863	309.561	350.724	412.888	388.107	364.585
30	187.333	204.974	251.597	217.155	196.993	217.155	308.721	270.078	217.155
35	158.771	166.751	173.892	165.911	156.671	159.611	201.614	158.351	137.769
40	144.070	145.750	147.010	140.710	129.369	126.849	125.589	105.427	96.187
45	128.949	128.529	130.209	116.768	104.167	96.187	86.526	74.345	63.424
50	110.468	110.048	110.048	96.187	81.906	69.305	62.164	49.563	46.623
55	91.566	91.986	86.946	77.705	61.744	47.883	40.323	32.762	30.242
60	72.665	72.665	66.785	57.124	43.263	33.602	25.202	19.741	17.641
65	55.444	54.184	48.723	38.223	26.882	20.161	14.281	10.921	8.401
70	38.643	37.803	30.662	23.102	15.121	11.341	7.140	4.620	5.460
75	23.942	22.682	16.801	10.921	6.720	4.200	1.260	2.520	2.520
80	13.021	10.921	7.561	3.780	1.260	1.260	0.000	0.000	1.260
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	207.82	N.A.	31.60
0-30	368.60	N.A.	56.00
0-40	476.97	N.A.	72.50
0-60	614.42	N.A.	93.40
0-80	656.70	N.A.	99.80
0-90	657.79	N.A.	100.00
10-90	601.85	N.A.	91.50
20-40	269.15	N.A.	40.90
20-50	350.17	N.A.	53.20
40-70	168.52	N.A.	25.60
60-80	42.28	N.A.	6.40
70-80	11.21	N.A.	1.70
80-90	1.08	N.A.	0.20
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	657.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	55.94
10-20	151.88
20-30	160.79
30-40	108.37
40-50	81.02
50-60	56.43
60-70	31.07
70-80	11.21
80-90	1.08
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	120	120	120	120	118	118	118	118	112	112	112	108	108	108	103	103	103	101
1	113	110	107	104	111	108	105	103	104	101	99	100	98	96	96	95	94	92
2	106	100	95	91	104	98	94	90	95	91	88	92	89	86	89	86	84	82
3	99	92	85	81	97	90	84	80	87	83	79	85	81	77	82	79	76	74
4	93	84	77	72	91	83	77	72	81	75	71	78	74	70	76	72	69	67
5	88	78	71	65	86	77	70	65	75	69	64	73	68	64	71	67	63	62
6	82	72	65	60	81	71	64	59	69	63	59	68	63	59	66	62	58	56
7	78	67	60	55	76	66	60	55	65	59	54	64	58	54	62	57	54	52
8	74	63	56	51	72	62	55	51	61	55	50	60	54	50	59	54	50	48
9	70	59	52	47	69	58	52	47	57	51	47	56	51	47	55	50	47	45
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42

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UGR TABLE - CORRECTED

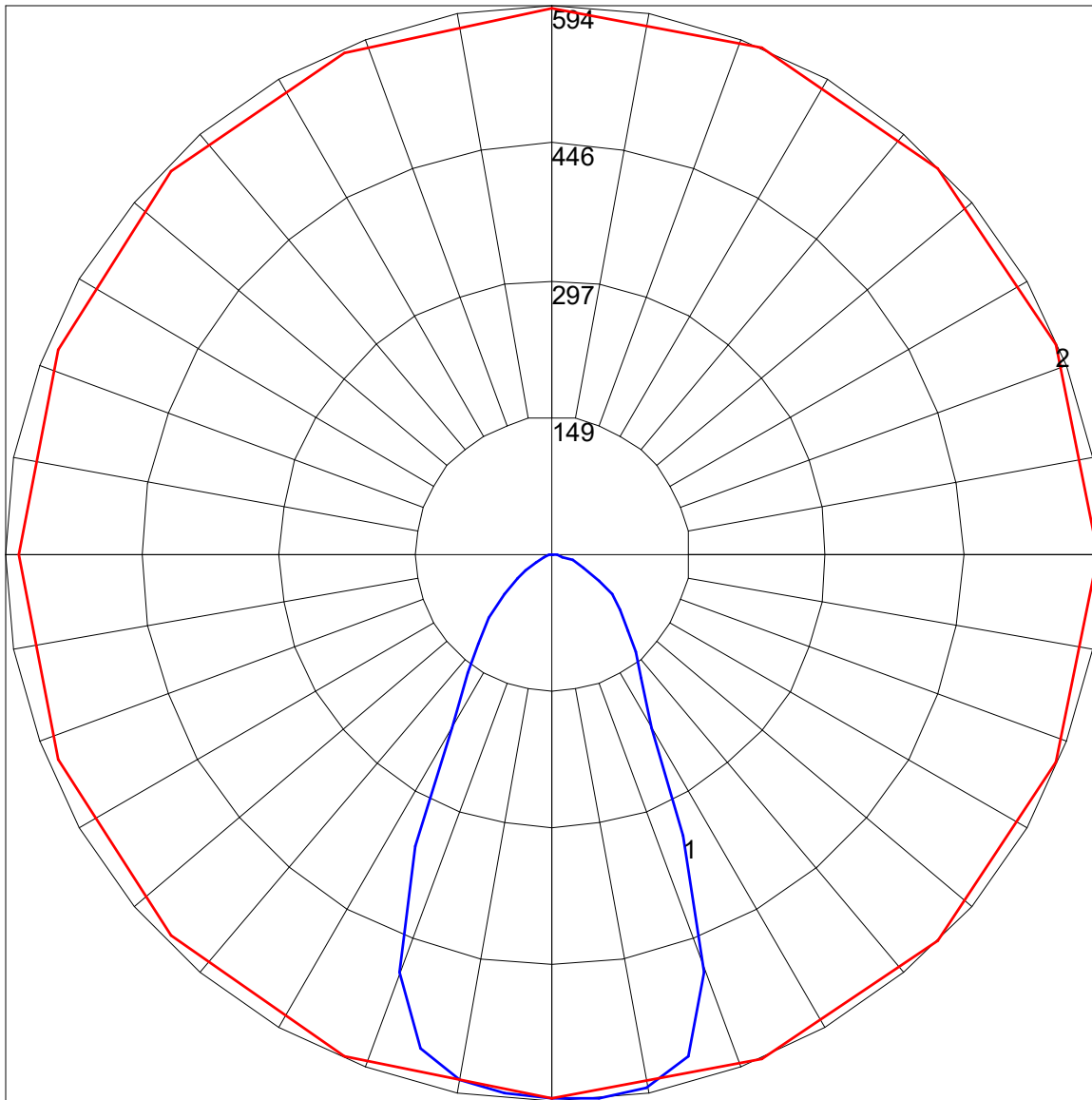
Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	21.0	22.2	21.3	22.6	22.9	18.1	19.4	18.5	19.7	20.0
	3H	22.3	23.4	22.7	23.8	24.1	18.8	19.9	19.2	20.2	20.6
	4H	22.7	23.7	23.1	24.1	24.5	18.9	19.9	19.3	20.2	20.6
	6H	22.9	23.9	23.4	24.3	24.7	18.8	19.8	19.2	20.1	20.5
	8H	23.0	23.9	23.4	24.3	24.7	18.8	19.7	19.2	20.1	20.5
	12H	22.9	23.8	23.4	24.2	24.6	18.7	19.6	19.1	20.0	20.4
4H	2H	21.3	22.3	21.7	22.7	23.1	18.6	19.6	19.0	20.0	20.4
	3H	22.8	23.6	23.2	24.0	24.4	19.3	20.2	19.8	20.6	21.0
	4H	23.3	24.0	23.7	24.5	24.9	19.5	20.2	19.9	20.6	21.1
	6H	23.6	24.3	24.1	24.7	25.2	19.4	20.1	19.9	20.5	21.0
	8H	23.6	24.2	24.1	24.7	25.2	19.4	20.0	19.9	20.5	20.9
	12H	23.6	24.1	24.1	24.6	25.1	19.3	19.9	19.8	20.4	20.8
8H	4H	23.3	23.9	23.7	24.3	24.8	19.6	20.2	20.0	20.6	21.1
	6H	23.6	24.1	24.1	24.6	25.1	19.6	20.1	20.1	20.6	21.0
	8H	23.7	24.1	24.2	24.7	25.2	19.5	20.0	20.0	20.5	21.0
	12H	23.7	24.1	24.2	24.6	25.1	19.5	19.9	20.0	20.4	20.9
12H	4H	23.2	23.8	23.7	24.3	24.7	19.5	20.1	20.0	20.6	21.0
	6H	23.6	24.1	24.1	24.5	25.1	19.6	20.0	20.1	20.5	21.0
	8H	23.7	24.1	24.2	24.6	25.1	19.5	19.9	20.0	20.4	21.0

Maximum UGR = 25.2

POLAR GRAPH



Maximum Candela = 594.341 Located At Horizontal Angle = 67.5, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)