



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DS-L22-RGB940-DMX-UNV-RW-OF-CS WHITE ONLY.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 20321.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 16 OCT 2024

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] GEN7 V13 LED 4"SHORT HEATSINK 4"SQ CAST HOUSING DOWNLIGHT

[MORE] WHITE MIXING CHAMBER & 4" CAST WHITE REGRESS w/SOLITE LENS

[LUMCAT] 4DS-L22-RGB/940-DMX-UNV-RW-OF-CS WHITE ONLY

[_SEARCH_SOURCE TYPE] 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	2283
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	41
Total Luminaire Watts	56.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.02
Spacing Criterion (90-270)	1.02
Spacing Criterion (Diagonal)	1.06
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	42704	47625	42545
55	32879	31704	32292
65	21249	19921	20718
75	9542	10409	9976
85	5152	3864	5152

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1742.038	1742.038	1742.038	1742.038	1742.038
5	1731.620	1731.620	1730.463	1732.778	1737.408
10	1699.210	1696.895	1704.998	1715.415	1722.360
15	1651.753	1650.595	1658.698	1672.588	1680.690
20	1589.248	1586.933	1597.350	1597.350	1588.090
25	1392.473	1434.143	1496.648	1446.875	1387.843
30	913.268	1039.435	1306.818	1132.035	913.268
35	519.718	583.380	959.568	659.775	520.875
40	373.873	402.810	548.655	428.275	384.290
45	311.368	320.628	347.250	332.203	310.210
50	254.650	259.280	258.123	254.650	246.548
55	194.460	199.090	187.515	190.988	190.988
60	141.215	141.215	133.113	136.585	138.900
65	92.600	93.758	86.813	90.285	90.285
70	46.300	50.930	50.930	49.773	47.458
75	25.465	25.465	27.780	25.465	26.623
80	16.205	16.205	11.575	13.890	13.890
85	4.630	3.473	3.473	3.473	4.630
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	632.65	N.A.	27.70
0-30	1272.33	N.A.	55.70
0-40	1721.19	N.A.	75.40
0-60	2154.98	N.A.	94.40
0-80	2276.6	N.A.	99.70
0-90	2282.51	N.A.	100.00
10-90	2117.94	N.A.	92.80
20-40	1088.54	N.A.	47.70
20-50	1348.52	N.A.	59.10
40-70	524.80	N.A.	23.00
60-80	121.62	N.A.	5.30
70-80	30.62	N.A.	1.30
80-90	5.91	N.A.	0.30
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	2282.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	164.57
10-20	468.07
20-30	639.69
30-40	448.86
40-50	259.98
50-60	173.82
60-70	91.00
70-80	30.62
80-90	5.91
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	276	276	276	276	269	269	269	269	257	257	257	246	246	246	236	236	236	231
1	260	252	245	239	254	247	241	235	237	232	228	229	224	221	220	217	214	210
2	243	230	218	209	238	225	215	206	218	209	202	211	204	197	204	198	193	189
3	228	210	196	185	223	207	194	183	200	189	180	194	185	177	189	181	175	171
4	214	193	177	166	209	190	176	165	185	172	163	180	169	161	175	166	159	155
5	201	178	162	150	196	175	160	149	171	158	148	167	155	146	163	153	145	141
6	189	164	148	136	185	162	147	136	159	145	135	155	143	134	152	141	133	129
7	178	153	136	125	174	151	136	125	148	134	124	145	132	123	142	131	123	119
8	168	142	126	115	165	141	126	115	138	124	114	136	123	114	133	122	113	110
9	159	133	117	107	156	132	117	107	129	116	106	127	115	106	125	114	105	102
10	150	125	110	99	148	124	109	99	122	108	99	120	107	99	118	106	98	95

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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

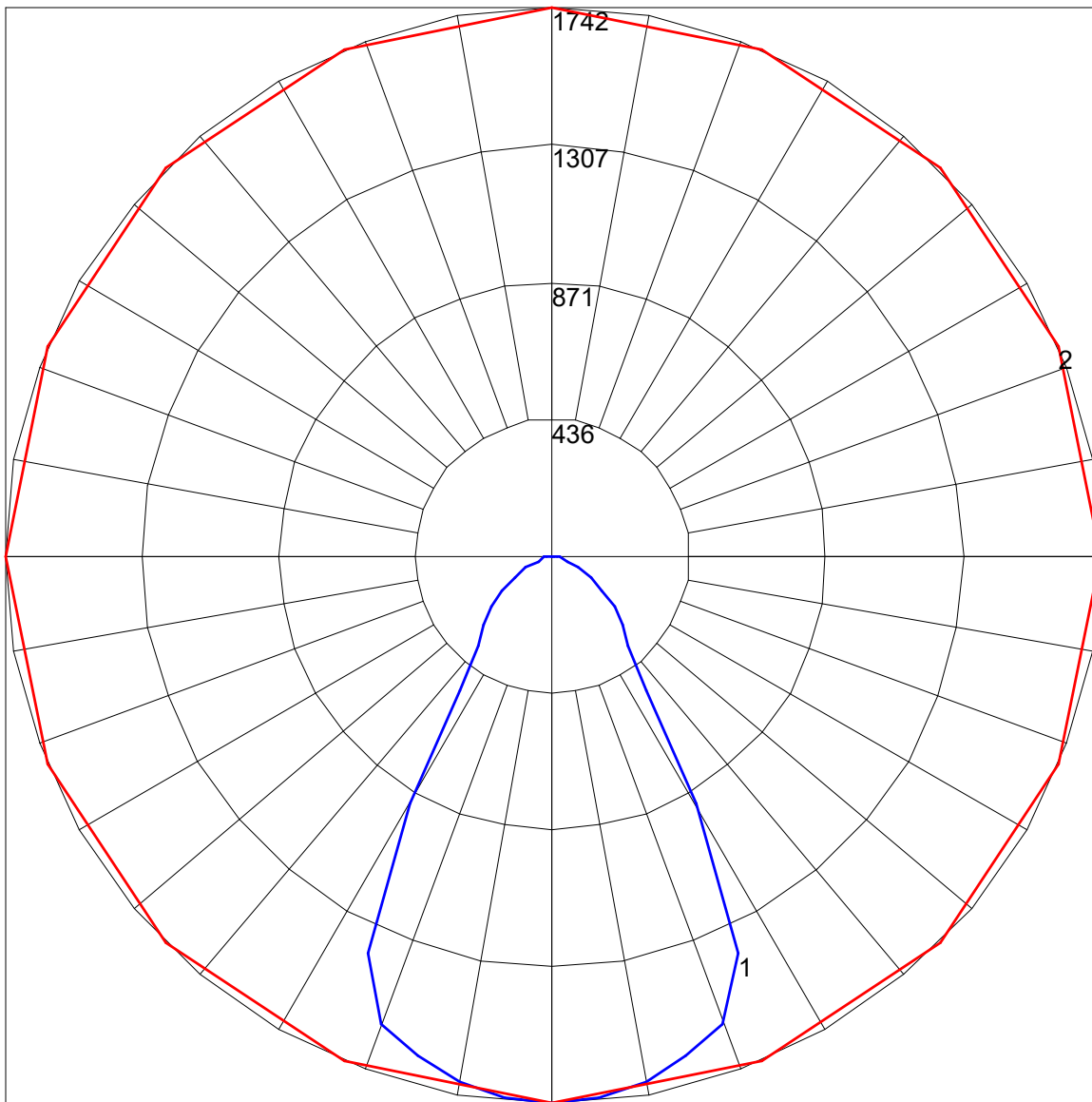
X=2H	Y=2H	18.9	20.1	19.3	20.4	20.7	18.6	19.9	19.0	20.2	20.5
	3H	19.5	20.6	19.9	20.9	21.3	19.3	20.4	19.7	20.7	21.1
	4H	19.6	20.6	20.0	21.0	21.4	19.4	20.4	19.8	20.8	21.2
	6H	19.7	20.6	20.1	21.0	21.4	19.5	20.4	19.9	20.8	21.2
	8H	19.7	20.6	20.1	20.9	21.4	19.5	20.3	19.9	20.7	21.1
	12H	19.7	20.5	20.1	20.9	21.3	19.5	20.3	19.9	20.7	21.1

UGR Viewed Endwise

4H	2H	19.1	20.1	19.5	20.4	20.8	18.9	19.9	19.3	20.2	20.6
	3H	19.8	20.7	20.2	21.1	21.5	19.7	20.5	20.1	20.9	21.3
	4H	20.0	20.7	20.4	21.1	21.6	19.8	20.5	20.2	21.0	21.4
	6H	20.1	20.7	20.6	21.2	21.6	19.9	20.5	20.4	21.0	21.5
	8H	20.1	20.7	20.6	21.1	21.6	19.9	20.5	20.4	20.9	21.4
	12H	20.1	20.6	20.6	21.1	21.6	19.9	20.4	20.4	20.9	21.4
8H	4H	20.0	20.5	20.4	21.0	21.5	19.8	20.4	20.3	20.8	21.3
	6H	20.1	20.6	20.6	21.1	21.6	19.9	20.4	20.4	20.9	21.4
	8H	20.1	20.6	20.7	21.1	21.6	19.9	20.4	20.5	20.9	21.4
	12H	20.2	20.5	20.7	21.0	21.6	20.0	20.3	20.5	20.8	21.4
12H	4H	19.9	20.4	20.4	20.9	21.4	19.8	20.3	20.2	20.8	21.2
	6H	20.1	20.5	20.6	21.0	21.5	19.9	20.3	20.4	20.8	21.3
	8H	20.1	20.5	20.7	21.0	21.6	19.9	20.3	20.5	20.8	21.4

Maximum UGR = 21.6

POLAR GRAPH



Maximum Candela = 1742.038 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)