



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DS-L30-940-DIM-UNV-LW-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 20349.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 29-OCT-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] GEN7 V13 LED 6"SHORT HEATSINK 6"SQ CAST HOUSING DOWNLIGHT

[MORE] WHITE MIXING CHAMBER & 6"CAST WHITE FLUSH TRIM w/SOLITE

[LUMCAT] 6DS-L30-940-DIM-UNV-LW-OF-WH

[LAMPCAT] BXRE-35E2000

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Industrial, Office, Direct, Downlight

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2544
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	31
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.04
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	1.10
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.50 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	23692	27343	23171
55	18462	18921	18278
65	12840	12840	12466
75	8142	7938	7735
85	1813	1209	2418

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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>
0	1718.296	1718.296	1718.296	1718.296	1718.296
5	1723.195	1714.622	1714.622	1713.397	1717.071
10	1707.274	1699.925	1698.701	1692.577	1702.375
15	1684.004	1671.756	1661.959	1657.060	1661.959
20	1600.722	1617.868	1626.441	1604.396	1583.576
25	1402.316	1441.507	1546.834	1456.204	1408.440
30	1047.144	1169.617	1320.259	1178.190	1048.369
35	641.759	772.805	1034.897	729.939	644.208
40	484.993	532.758	709.119	511.937	478.869
45	389.464	412.734	449.476	401.711	380.891
50	312.306	325.778	335.576	318.430	312.306
55	246.171	246.171	252.294	247.395	243.721
60	178.811	180.035	177.586	177.586	181.260
65	126.147	126.147	126.147	124.922	122.473
70	83.282	82.057	77.158	80.832	82.057
75	48.989	47.764	47.764	46.540	46.540
80	26.944	24.495	23.270	23.270	23.270
85	3.674	4.899	2.449	3.674	4.899
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	632.81	N.A.	24.90
0-30	1289.36	N.A.	50.70
0-40	1805.98	N.A.	71.00
0-60	2357.07	N.A.	92.60
0-80	2535.82	N.A.	99.70
0-90	2544.43	N.A.	100.00
10-90	2381.23	N.A.	93.60
20-40	1173.17	N.A.	46.10
20-50	1501.57	N.A.	59.00
40-70	677.21	N.A.	26.60
60-80	178.75	N.A.	7.00
70-80	52.62	N.A.	2.10
80-90	8.62	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	2544.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	163.21
10-20	469.61
20-30	656.54
30-40	516.62
40-50	328.41
50-60	222.68
60-70	126.13
70-80	52.62
80-90	8.62
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90
2	104	98	93	89	102	96	92	87	93	89	86	90	87	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	64	56	51	73	63	56	51	62	55	51	60	55	50	59	54	50	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38

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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	20.0	21.3	20.4	21.6	21.9	20.0	21.3	20.4	21.6	21.9
	3H	21.0	22.2	21.4	22.5	22.8	21.0	22.1	21.3	22.4	22.8
	4H	21.3	22.3	21.7	22.7	23.1	21.2	22.3	21.6	22.6	23.0
	6H	21.4	22.4	21.9	22.8	23.2	21.3	22.3	21.8	22.7	23.1
	8H	21.5	22.4	21.9	22.8	23.2	21.3	22.3	21.8	22.7	23.1
	12H	21.4	22.3	21.9	22.7	23.1	21.3	22.2	21.7	22.6	23.0

UGR Viewed Endwise

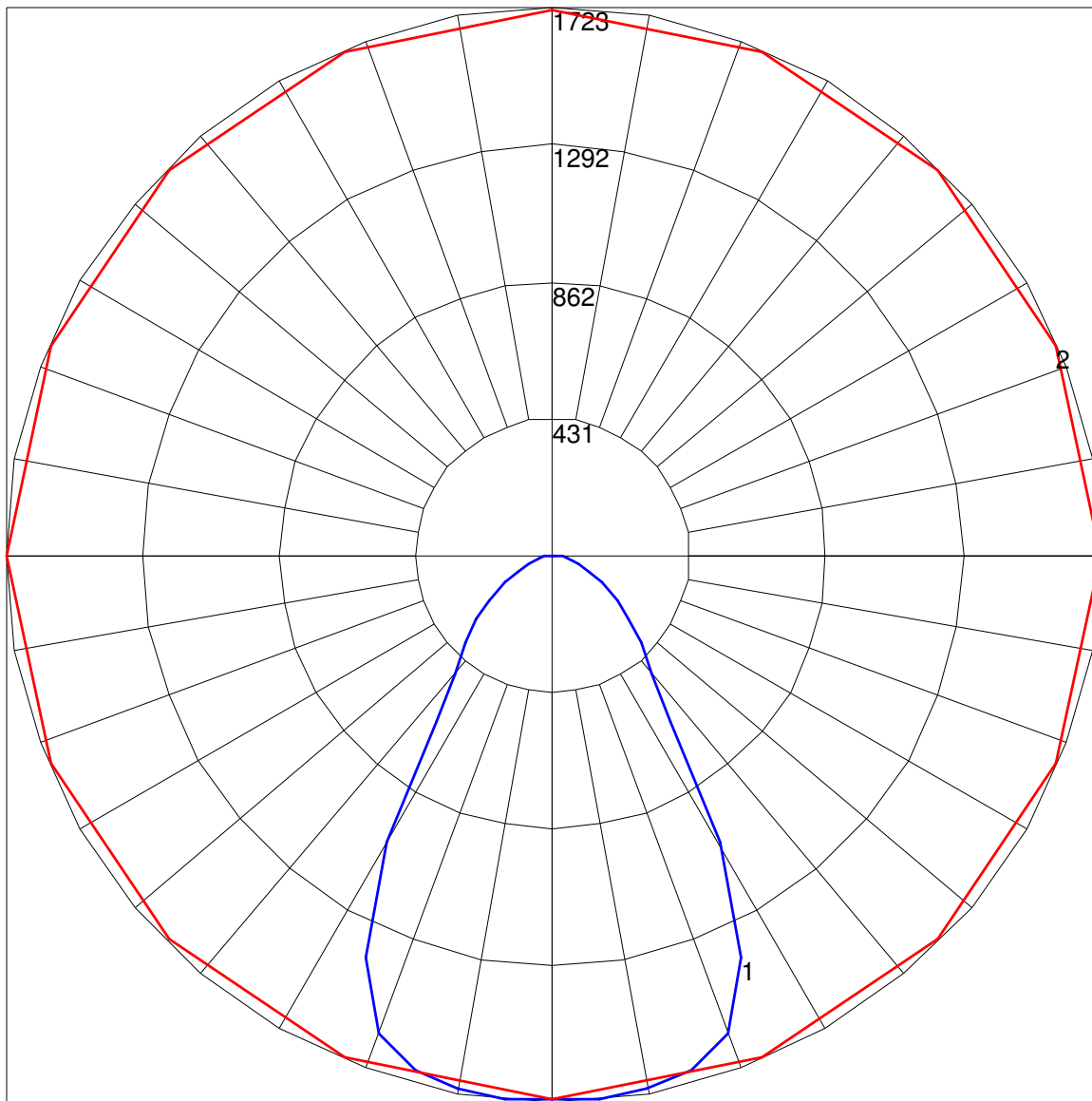
4H	2H	20.3	21.4	20.8	21.8	22.1	20.3	21.4	20.7	21.7	22.1
	3H	21.5	22.4	21.9	22.8	23.2	21.4	22.3	21.8	22.7	23.1
	4H	21.8	22.6	22.3	23.0	23.5	21.8	22.5	22.2	23.0	23.4
	6H	22.1	22.7	22.5	23.2	23.6	22.0	22.6	22.4	23.1	23.5
	8H	22.1	22.7	22.5	23.2	23.6	22.0	22.6	22.4	23.0	23.5
	12H	22.1	22.6	22.6	23.1	23.6	22.0	22.5	22.4	23.0	23.5

8H	4H	21.9	22.5	22.3	23.0	23.4	21.8	22.5	22.3	22.9	23.4
	6H	22.2	22.7	22.7	23.2	23.7	22.1	22.6	22.6	23.1	23.6
	8H	22.2	22.7	22.8	23.2	23.7	22.1	22.6	22.6	23.1	23.6
	12H	22.2	22.6	22.8	23.1	23.7	22.1	22.5	22.6	23.0	23.6

12H	4H	21.9	22.4	22.4	22.9	23.4	21.8	22.4	22.3	22.8	23.3
	6H	22.2	22.6	22.7	23.1	23.6	22.1	22.5	22.6	23.0	23.5
	8H	22.2	22.6	22.8	23.1	23.7	22.1	22.5	22.6	23.0	23.6

Maximum UGR = 23.7

POLAR GRAPH



Maximum Candela = 1723.195 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)