



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 20353.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 29-OCT-2018

[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/DIFFUSE

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

[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	2163
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	31
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.92
Spacing Criterion (90-270)	0.92
Spacing Criterion (Diagonal)	1.00
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	24954	25232	24676
55	22023	22023	21766
65	21050	20934	21050
75	20700	20510	21269
85	10715	9023	10151

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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	1327.737	1327.737	1327.737	1327.737	1327.737
5	1311.740	1301.457	1302.599	1299.172	1299.172
10	1247.753	1238.612	1237.469	1236.327	1234.042
15	1140.346	1136.918	1136.918	1134.633	1131.205
20	1018.084	1004.373	1020.370	1010.086	1006.658
25	868.400	862.686	874.113	868.400	862.686
30	716.430	724.428	728.999	728.999	724.428
35	598.739	595.311	599.881	596.453	595.311
40	491.331	487.903	491.331	493.617	487.903
45	410.205	409.062	414.775	410.205	405.634
50	345.075	346.217	356.501	346.217	345.075
55	293.656	291.371	293.656	291.371	290.228
60	247.951	246.808	245.666	245.666	246.808
65	206.816	206.816	205.674	205.674	206.816
70	167.967	167.967	163.396	165.682	167.967
75	124.547	123.404	123.404	124.547	127.975
80	73.128	73.128	73.128	73.128	76.556
85	21.710	17.139	18.282	18.282	20.567
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	440.18	N.A.	20.40
0-30	838.95	N.A.	38.80
0-40	1215.24	N.A.	56.20
0-60	1799.21	N.A.	83.20
0-80	2132.5	N.A.	98.60
0-90	2162.7	N.A.	100.00
10-90	2040.37	N.A.	94.30
20-40	775.06	N.A.	35.80
20-50	1095.27	N.A.	50.60
40-70	788.32	N.A.	36.50
60-80	333.29	N.A.	15.40
70-80	128.94	N.A.	6.00
80-90	30.19	N.A.	1.40
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	2162.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	122.32
10-20	317.86
20-30	398.77
30-40	376.29
40-50	320.21
50-60	263.75
60-70	204.35
70-80	128.94
80-90	30.19
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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	37
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	35	34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31

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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	22.1	23.6	22.4	23.9	24.2	22.0	23.5	22.4	23.9	24.2
	3H	24.1	25.4	24.5	25.8	26.1	24.0	25.4	24.4	25.7	26.1
	4H	24.9	26.2	25.3	26.5	26.9	24.9	26.2	25.3	26.5	26.9
	6H	25.5	26.6	25.9	27.0	27.4	25.5	26.7	25.9	27.0	27.4
	8H	25.6	26.7	26.1	27.1	27.5	25.7	26.8	26.1	27.2	27.6
	12H	25.7	26.7	26.1	27.1	27.6	25.7	26.8	26.1	27.2	27.6

UGR Viewed Endwise

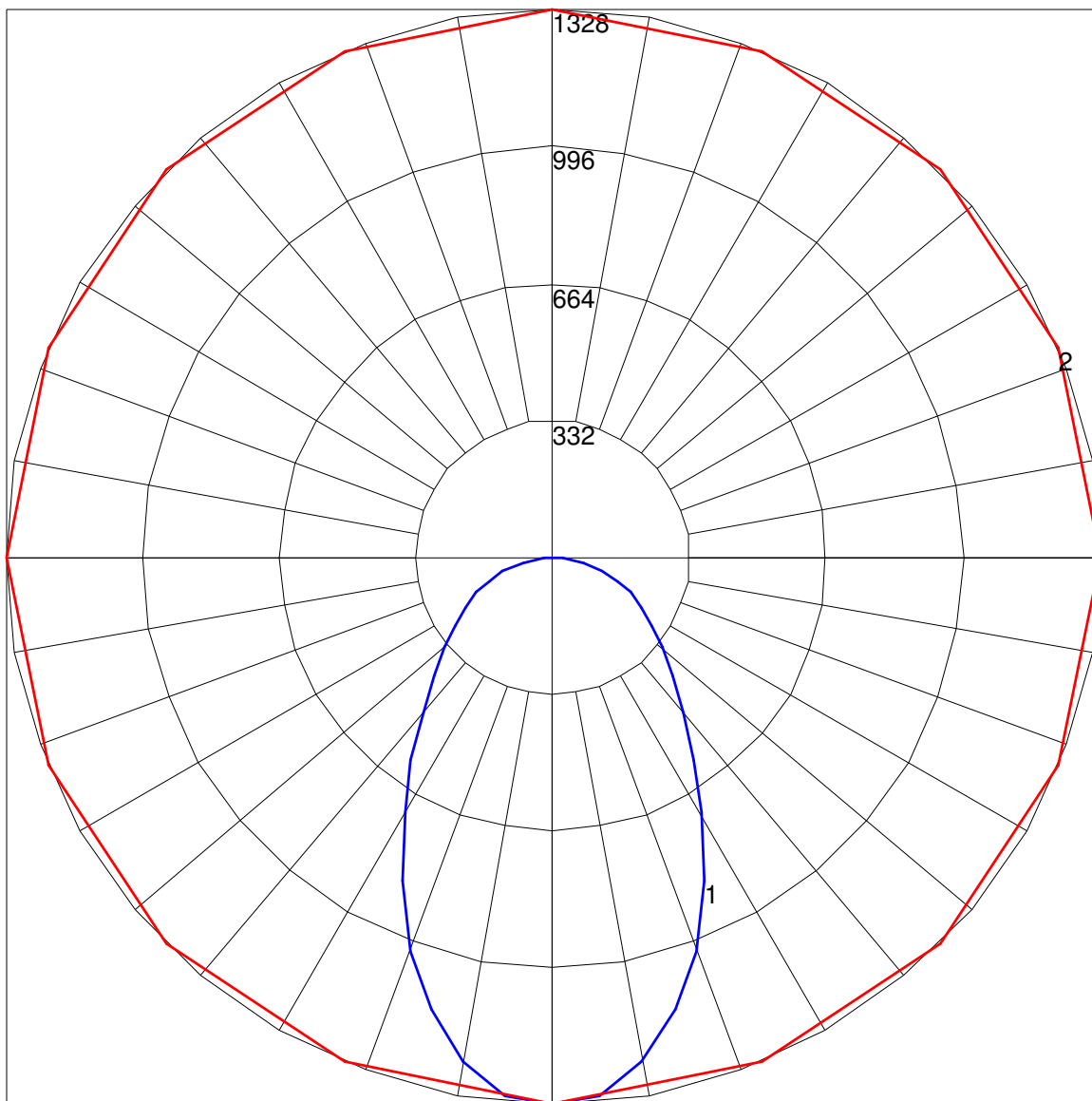
4H	2H	22.7	24.0	23.1	24.3	24.7	22.7	24.0	23.1	24.3	24.7
	3H	24.9	26.0	25.4	26.4	26.8	24.9	26.0	25.3	26.4	26.8
	4H	25.9	26.9	26.3	27.3	27.7	25.9	26.9	26.3	27.3	27.7
	6H	26.6	27.4	27.1	27.9	28.3	26.7	27.5	27.1	27.9	28.4
	8H	26.8	27.6	27.3	28.0	28.5	26.8	27.6	27.3	28.1	28.5
	12H	26.9	27.6	27.4	28.1	28.5	26.9	27.6	27.4	28.1	28.6

8H	4H	26.2	27.0	26.7	27.5	27.9	26.2	27.0	26.7	27.5	27.9
	6H	27.1	27.7	27.6	28.2	28.7	27.1	27.7	27.6	28.2	28.7
	8H	27.3	27.9	27.8	28.4	28.9	27.4	27.9	27.9	28.4	28.9
	12H	27.4	28.0	27.9	28.4	29.0	27.5	28.0	28.0	28.5	29.0

12H	4H	26.3	27.0	26.8	27.5	27.9	26.3	27.0	26.8	27.5	27.9
	6H	27.1	27.7	27.7	28.2	28.7	27.2	27.7	27.7	28.2	28.7
	8H	27.4	27.9	27.9	28.4	29.0	27.4	28.0	28.0	28.5	29.0

Maximum UGR = 29.0

POLAR GRAPH



Maximum Candela = 1327.737 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.)