



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LL6G-4-L34-940-SWF-AF125-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 17249.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 29-OCT-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 6" WIDE RECESSED LINEAR LUMINAIRE
 [MORE] .125"THK FROSTED ACRYLIC LENS
 [LUMCAT] LL6G-4-L34-940-SWF-AF125-DIM-UNV
 [LAMPCAT] HLM 90 CRI 4000K CCT
 [_SEARCH_SOURCETYPE]LED
 [_SEARCH_APPLICATION]INDOOR,ARCHITECTURAL,DIRECT,LINEAR
 [_SEARCH_MOUNTING]RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2933
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	32.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.12
Spacing Criterion (90-270)	1.04
Spacing Criterion (Diagonal)	1.18
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.84 ft
Luminous Width (90-270)	0.34 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8409	7567	6859
55	7076	6251	5602
65	5971	5266	4722
75	4835	4208	3816
85	4036	3493	3260

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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	1429.068	1429.068	1429.068	1429.068	1429.068
5	1420.750	1419.918	1417.423	1415.759	1415.759
10	1383.318	1379.159	1371.672	1366.682	1362.522
15	1323.427	1317.604	1303.463	1293.481	1286.827
20	1264.368	1254.386	1230.263	1206.140	1195.326
25	1147.081	1134.604	1105.490	1073.881	1062.235
30	1053.917	1036.449	994.858	954.930	939.126
35	948.276	926.648	882.562	840.139	820.175
40	827.662	806.034	760.284	713.702	697.898
45	731.170	707.048	657.970	613.052	596.416
50	608.893	588.097	542.347	503.252	487.447
55	499.092	480.792	440.865	408.424	395.115
60	396.779	380.974	350.197	322.746	313.596
65	310.269	300.287	273.669	252.042	245.387
70	227.919	218.769	198.805	185.496	179.673
75	153.887	147.232	133.923	126.437	121.446
80	92.332	89.005	81.518	75.696	74.032
85	43.255	40.759	37.432	36.600	34.936
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	501.61	N.A.	17.10
0-30	1012.29	N.A.	34.50
0-40	1563.3	N.A.	53.30
0-60	2469.45	N.A.	84.20
0-80	2889.99	N.A.	98.50
0-90	2933.36	N.A.	100.00
10-90	2799.5	N.A.	95.40
20-40	1061.69	N.A.	36.20
20-50	1568.51	N.A.	53.50
40-70	1179.82	N.A.	40.20
60-80	420.54	N.A.	14.30
70-80	146.86	N.A.	5.00
80-90	43.36	N.A.	1.50
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	2933.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	133.86
10-20	367.76
20-30	510.68
30-40	551.01
40-50	506.82
50-60	399.33
60-70	273.67
70-80	146.86
80-90	43.36
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	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	78	72	67	76	71	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	59	68	62	58	66	61	57	55
5	79	67	59	52	77	66	58	52	64	57	51	62	56	51	60	55	50	48
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

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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	18.4	19.9	18.8	20.3	20.6	17.2	18.7	17.5	19.0	19.3
	3H	20.0	21.4	20.3	21.7	22.0	18.7	20.1	19.1	20.4	20.7
	4H	20.5	21.8	20.9	22.2	22.6	19.2	20.5	19.6	20.9	21.2
	6H	21.0	22.1	21.4	22.5	22.9	19.6	20.8	20.0	21.2	21.6
	8H	21.1	22.2	21.5	22.6	23.0	19.8	20.9	20.2	21.3	21.7
	12H	21.2	22.3	21.6	22.7	23.1	19.8	20.9	20.3	21.3	21.8

UGR Viewed Endwise

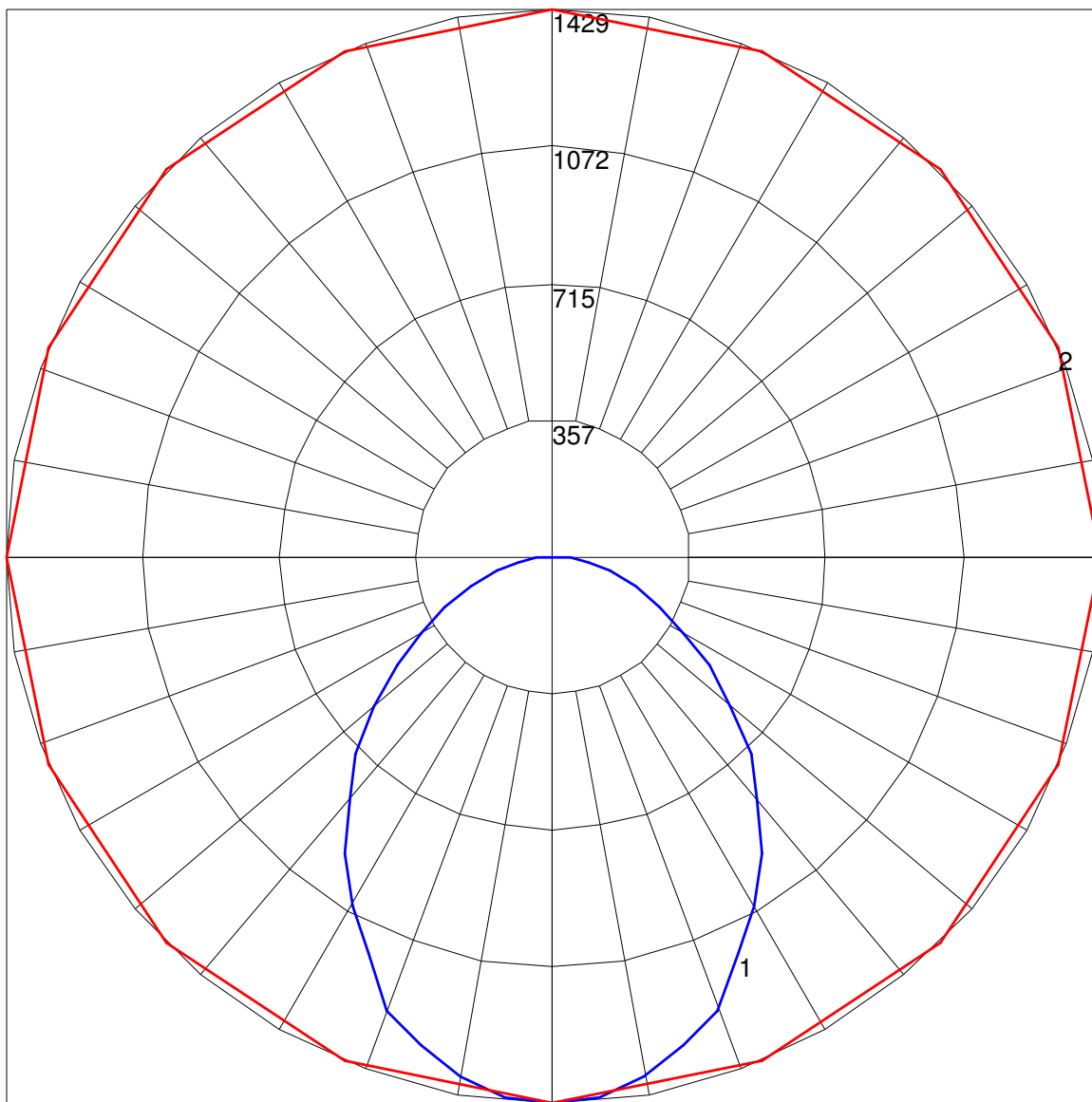
4H	2H	18.8	20.1	19.2	20.5	20.8	17.8	19.1	18.2	19.5	19.9
	3H	20.6	21.7	21.0	22.1	22.5	19.5	20.6	19.9	21.0	21.4
	4H	21.3	22.3	21.7	22.7	23.1	20.2	21.1	20.6	21.6	22.0
	6H	21.8	22.7	22.3	23.1	23.6	20.7	21.5	21.1	22.0	22.4
	8H	22.0	22.8	22.5	23.3	23.7	20.9	21.7	21.3	22.1	22.6
	12H	22.2	22.9	22.7	23.4	23.9	21.0	21.7	21.5	22.2	22.7

8H	4H	21.5	22.3	22.0	22.7	23.2	20.5	21.3	20.9	21.7	22.2
	6H	22.1	22.8	22.6	23.3	23.8	21.1	21.8	21.6	22.3	22.7
	8H	22.4	23.0	22.9	23.5	24.0	21.4	22.0	21.9	22.5	23.0
	12H	22.7	23.2	23.2	23.7	24.2	21.6	22.1	22.1	22.6	23.2

12H	4H	21.5	22.2	22.0	22.7	23.2	20.5	21.2	21.0	21.7	22.2
	6H	22.2	22.8	22.7	23.2	23.8	21.2	21.8	21.7	22.2	22.8
	8H	22.5	23.0	23.0	23.5	24.1	21.5	22.0	22.0	22.5	23.1

Maximum UGR = 24.2

POLAR GRAPH



Maximum Candela = 1429.068 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.)