H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-840-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 19438.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 2023-07-18
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 96 INCH LONG, LOW PROFILE LED HIGHBAY LUMINAIRE
[MORE] WHITE REFLECTOR w/OPEN BOTTOM
[MORE] 0-10V DIMMING DRIVERS
[LUMCAT] GL-8-L300-840-DIM-UNV
[LAMPCAT] 22 INCH HLM LED ARRAYS
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Indoor, Commercial, Industrial, Manufacturing, Warehouse, High Bay
[_SEARCH_MOUNTING] Pendant, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	30098
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	157
Total Luminaire Watts	192
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	8.00 ft
Luminous Width (90-270)	1.05 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13982	14013	14167
55	12908	13471	10155
65	12141	9726	9901
75	9306	6203	5730
85	5105	3304	3757

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	10947.125	10947.125	10947.125	10947.125	10947.125
5	10789.607	10786.592	10789.607	10793.375	10796.390
10	10779.809	10772.272	10779.809	10793.375	10793.375
15	10554.460	10568.026	10598.173	10601.942	10598.173
20	10144.461	10154.259	10171.594	10185.160	10185.160
25	9564.132	9591.264	9611.613	9573.930	9573.930
30	9010.935	9041.835	9017.718	9010.935	9007.166
35	8420.054	8460.752	8433.620	8450.954	8453.969
40	8044.724	8095.973	8054.521	8078.639	8102.757
45	7737.224	7777.923	7754.559	7812.592	7839.724
50	6838.844	6903.660	6965.461	7012.943	6969.230
55	5794.251	5892.982	6046.732	4756.441	4558.225
60	4855.172	4950.889	4954.657	3922.877	3940.211
65	4015.579	4066.829	3216.684	3312.400	3274.717
70	2943.100	3079.515	2516.520	2202.237	1765.106
75	1884.940	1557.092	1256.376	1280.493	1160.659
80	1048.361	939.079	539.631	375.330	330.863
85	348.198	225.349	225.349	252.481	256.249
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4009.74	N.A.	13.30
0-30	8436.36	N.A.	28.00
0-40	13764.73	N.A.	45.70
0-60	24694.09	N.A.	82.00
0-80	29787.76	N.A.	99.00
0-90	30097.67	N.A.	100.00
10-90	29066.05	N.A.	96.60
20-40	9754.99	N.A.	32.40
20-50	15667.83	N.A.	52.10
40-70	14446.71	N.A.	48.00
60-80	5093.68	N.A.	16.90
70-80	1576.32	N.A.	5.20
80-90	309.91	N.A.	1.00
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	30097.67	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1031.63
10-20	2978.11
20-30	4426.63
30-40	5328.37
40-50	5912.84
50-60	5016.52
60-70	3517.35
70-80	1576.32
80-90	309.91
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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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	21.3	22.9	21.7	23.3	23.6	19.8	21.4	20.1	21.7	22.0
	3H	23.1	24.6	23.5	24.9	25.3	21.2	22.7	21.6	23.0	23.4
	4H	23.6	25.0	24.0	25.3	25.7	21.6	23.0	22.0	23.3	23.7
	6H	23.9	25.2	24.3	25.6	26.0	21.7	23.0	22.1	23.4	23.7
	8H	24.0	25.2	24.5	25.6	26.0	21.7	22.9	22.2	23.3	23.7
	12H	24.1	25.2	24.5	25.6	26.0	21.8	22.9	22.2	23.3	23.7
4H	2H	21.7	23.1	22.1	23.4	23.8	20.4	21.8	20.8	22.2	22.5
	3H	23.7	24.9	24.1	25.3	25.7	22.1	23.3	22.5	23.7	24.1
	4H	24.3	25.3	24.7	25.7	26.2	22.6	23.6	23.0	24.0	24.5
	6H	24.7	25.6	25.2	26.1	26.5	22.7	23.6	23.2	24.1	24.5
	8H	24.9	25.7	25.3	26.1	26.6	22.8	23.6	23.2	24.0	24.5
	12H	24.9	25.7	25.4	26.2	26.6	22.8	23.5	23.3	24.0	24.5
8H	4H	24.4	25.2	24.9	25.7	26.1	22.8	23.6	23.3	24.1	24.6
	6H	24.9	25.6	25.4	26.1	26.6	23.0	23.7	23.5	24.2	24.6
	8H	25.1	25.7	25.6	26.2	26.7	23.0	23.6	23.5	24.2	24.6
	12H	25.2	25.7	25.7	26.2	26.8	23.1	23.7	23.6	24.1	24.7
12H	4H	24.4	25.1	24.9	25.6	26.1	22.8	23.6	23.3	24.1	24.5
	6H	24.9	25.5	25.4	26.0	26.5	23.0	23.6	23.5	24.1	24.6
	8H	25.1	25.6	25.6	26.1	26.7	23.1	23.6	23.6	24.1	24.7

Maximum UGR = 26.8

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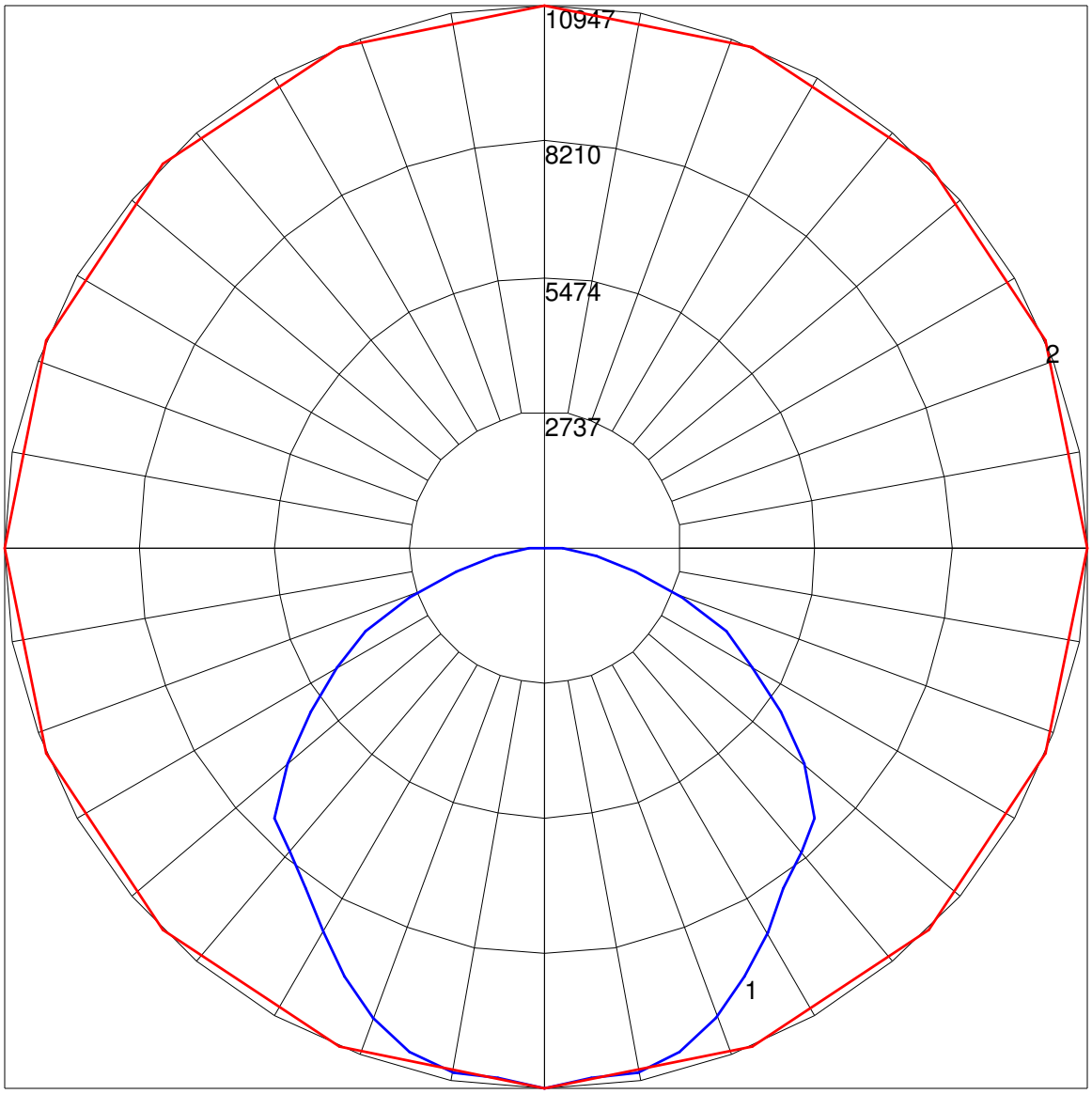
POLAR GRAPH



Maximum Candela = 10947.125 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.)

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