H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L800-940-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-L800-940-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	66706
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	534
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	30988	31057	31398
55	28609	29855	22506
65	26909	21555	21944
75	20625	13747	12700
85	11314	7322	8326

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	24262.444	24262.444	24262.444	24262.444	24262.444
5	23913.332	23906.651	23913.332	23921.684	23928.366
10	23891.617	23874.913	23891.617	23921.684	23921.684
15	23392.170	23422.237	23489.053	23497.405	23489.053
20	22483.477	22505.192	22543.611	22573.678	22573.678
25	21197.275	21257.409	21302.510	21218.990	21218.990
30	19971.207	20039.693	19986.241	19971.207	19962.855
35	18661.620	18751.821	18691.687	18730.106	18736.787
40	17829.765	17943.351	17851.480	17904.932	17958.385
45	17148.245	17238.446	17186.664	17315.284	17375.418
50	15157.137	15300.791	15437.763	15542.998	15446.115
55	12841.974	13060.795	13401.555	10541.844	10102.531
60	10760.665	10972.805	10981.157	8694.391	8732.810
65	8899.849	9013.435	7129.233	7341.373	7257.853
70	6522.881	6825.222	5577.439	4880.886	3912.058
75	4177.650	3451.030	2784.544	2837.996	2572.404
80	2323.515	2081.308	1196.001	831.855	733.302
85	771.721	499.447	499.447	559.581	567.933
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	8886.9	N.A.	13.30
0-30	18697.77	N.A.	28.00
0-40	30507.19	N.A.	45.70
0-60	54730.25	N.A.	82.00
0-80	66019.52	N.A.	99.00
0-90	66706.39	N.A.	100.00
10-90	64419.96	N.A.	96.60
20-40	21620.29	N.A.	32.40
20-50	34725.09	N.A.	52.10
40-70	32018.67	N.A.	48.00
60-80	11289.27	N.A.	16.90
70-80	3493.66	N.A.	5.20
80-90	686.87	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	66706.39	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2286.42
10-20	6600.48
20-30	9810.87
30-40	11809.42
40-50	13104.8
50-60	11118.26
60-70	7795.61
70-80	3493.66
80-90	686.87
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	24.1	25.7	24.5	26.1	26.4	22.6	24.2	22.9	24.5	24.8
	3H	25.9	27.4	26.3	27.7	28.1	24.0	25.5	24.4	25.8	26.2
	4H	26.4	27.8	26.8	28.1	28.5	24.4	25.8	24.8	26.1	26.5
	6H	26.7	28.0	27.1	28.4	28.8	24.5	25.8	24.9	26.2	26.5
	8H	26.8	28.0	27.3	28.4	28.8	24.5	25.7	25.0	26.1	26.5
	12H	26.9	28.0	27.3	28.4	28.8	24.6	25.7	25.0	26.1	26.5
4H	2H	24.5	25.9	24.9	26.2	26.6	23.2	24.6	23.6	25.0	25.3
	3H	26.5	27.7	26.9	28.1	28.5	24.9	26.1	25.3	26.5	26.9
	4H	27.1	28.1	27.5	28.5	29.0	25.4	26.4	25.8	26.8	27.3
	6H	27.5	28.4	28.0	28.9	29.3	25.5	26.4	26.0	26.9	27.3
	8H	27.7	28.5	28.1	28.9	29.4	25.6	26.4	26.0	26.8	27.3
	12H	27.7	28.5	28.2	29.0	29.4	25.6	26.3	26.1	26.8	27.3
8H	4H	27.2	28.0	27.7	28.5	28.9	25.6	26.4	26.1	26.9	27.4
	6H	27.7	28.4	28.2	28.9	29.4	25.8	26.5	26.3	27.0	27.4
	8H	27.9	28.5	28.4	29.0	29.5	25.8	26.4	26.3	27.0	27.4
	12H	28.0	28.5	28.5	29.0	29.6	25.9	26.5	26.4	26.9	27.5
12H	4H	27.2	27.9	27.7	28.4	28.9	25.6	26.4	26.1	26.9	27.3
	6H	27.7	28.3	28.2	28.8	29.3	25.8	26.4	26.3	26.9	27.4
	8H	27.9	28.4	28.4	28.9	29.5	25.9	26.4	26.4	26.9	27.5

Maximum UGR = 29.6

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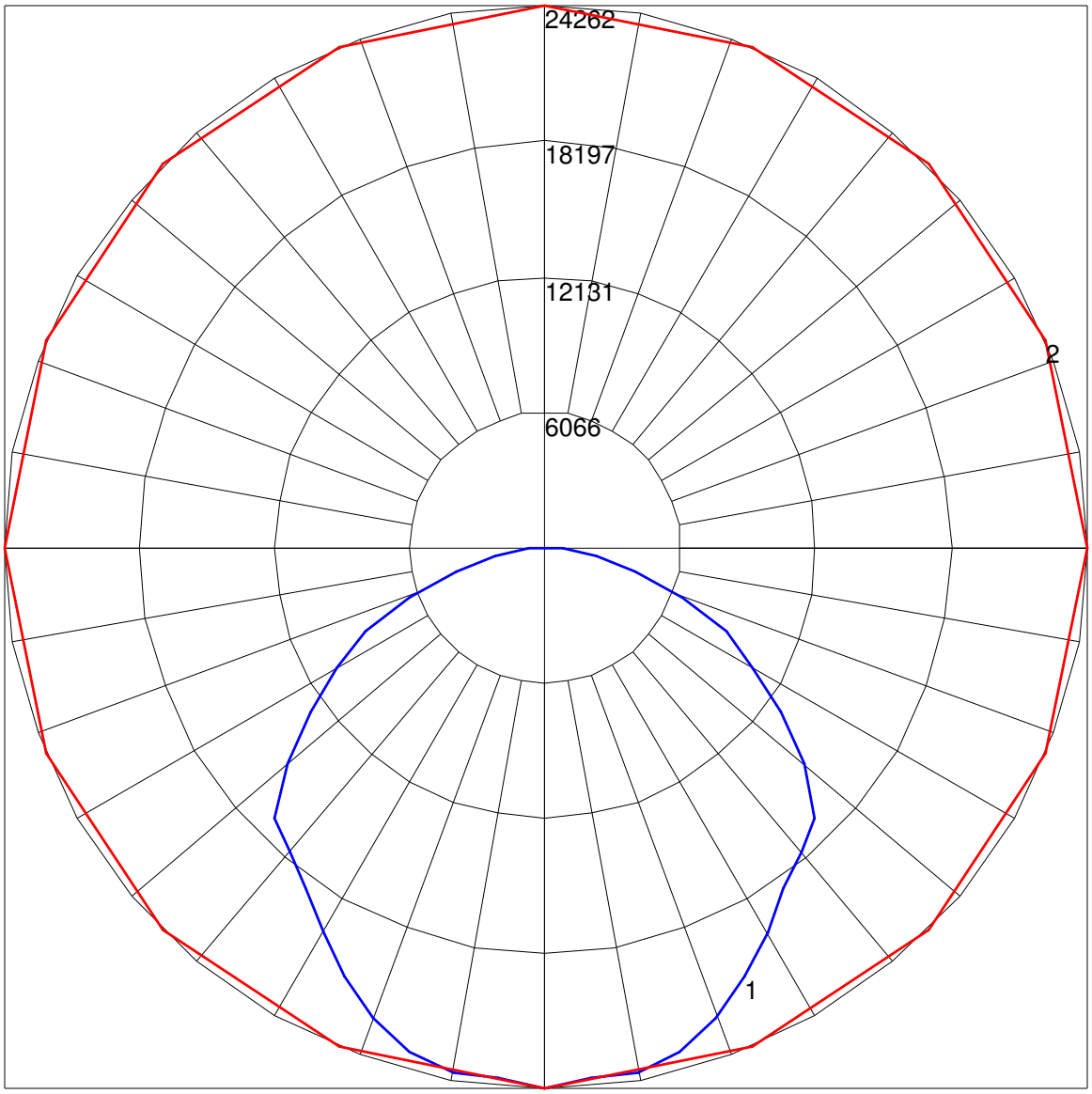
POLAR GRAPH



Maximum Candela = 24262.444 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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