H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L400-930-ND-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 19459.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 2023-07-20
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 96 INCH LOW PROFILE LED HIGHBAY LUMINAIRE
[MORE] WHITE REFL w/CLEAR ACRYLIC ROD DIFFUSERS OVER LED
[MORE] 0-10V UNIVERSAL VOLTAGE 120-277 DRIVERS
[LUMCAT] GL-8-L400-930-ND-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	30163
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	262
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	0.58
Spacing Criterion (Diagonal)	0.72
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	8.00 ft
Luminous Width (90-270)	1.04 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	37144	3964	2930
55	25455	2942	2200
65	15404	2231	2264
75	7543	2464	2055
85	2892	911	911

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	30420.957	30420.957	30420.957	30420.957	30420.957
5	29740.930	29504.540	29030.679	28638.854	28412.179
10	29504.540	28536.311	26393.686	24551.136	24211.123
15	29103.000	26971.169	22893.165	19782.311	18752.556
20	29597.369	24705.491	17270.529	12605.327	11122.221
25	28257.823	21296.721	12646.345	8547.832	7332.419
30	27619.893	17074.077	7682.147	4717.013	4068.289
35	25189.066	12244.805	4541.070	2975.928	2698.520
40	23551.604	8393.477	2945.705	2234.375	2090.813
45	20359.795	5231.891	2172.848	1698.988	1606.159
50	15704.308	3511.314	1709.782	1390.278	1308.243
55	11317.593	2605.691	1308.243	1070.773	977.944
60	7785.770	1853.344	1020.041	895.909	834.382
65	5046.233	1143.093	730.759	772.856	741.553
70	2986.722	823.588	628.215	648.724	576.404
75	1513.330	617.421	494.369	442.557	412.334
80	730.759	453.351	308.711	195.373	165.149
85	195.373	144.641	61.526	61.526	61.526
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	9138.49	N.A.	30.30
0-30	16025.24	N.A.	53.10
0-40	21441.24	N.A.	71.10
0-60	27908.33	N.A.	92.50
0-80	30013.12	N.A.	99.50
0-90	30162.62	N.A.	100.00
10-90	27460.83	N.A.	91.00
20-40	12302.75	N.A.	40.80
20-50	16232.74	N.A.	53.80
40-70	7891.33	N.A.	26.20
60-80	2104.79	N.A.	7.00
70-80	680.56	N.A.	2.30
80-90	149.50	N.A.	0.50
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	30162.62	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2701.79
10-20	6436.69
20-30	6886.76
30-40	5415.99
40-50	3929.99
50-60	2537.1
60-70	1424.23
70-80	680.56
80-90	149.50
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	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	51
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	48	47
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44
10	65	54	47	43	64	53	47	43	52	46	42	51	46	42	51	46	42	41

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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	18.8	20.1	19.2	20.5	20.8	11.9	11.9	11.9	11.9	11.9
	3H	20.7	21.9	21.1	22.2	22.5	11.9	13.1	12.3	13.4	13.8
	4H	21.2	22.3	21.6	22.6	23.0	12.7	13.7	13.1	14.1	14.5
	6H	21.5	22.5	22.0	22.9	23.3	13.0	14.0	13.4	14.3	14.7
	8H	21.6	22.5	22.0	22.9	23.3	13.0	14.0	13.5	14.4	14.8
	12H	21.6	22.5	22.1	22.9	23.3	13.0	13.9	13.5	14.3	14.7
4H	2H	18.7	19.8	19.1	20.1	20.5	11.9	11.9	11.9	11.9	12.3
	3H	20.6	21.5	21.0	21.9	22.3	12.8	13.7	13.3	14.1	14.5
	4H	21.2	21.9	21.6	22.4	22.8	13.7	14.5	14.1	14.9	15.3
	6H	21.6	22.3	22.1	22.7	23.2	14.1	14.8	14.6	15.2	15.7
	8H	21.7	22.3	22.2	22.8	23.3	14.2	14.8	14.6	15.3	15.7
	12H	21.8	22.3	22.2	22.8	23.3	14.2	14.8	14.7	15.2	15.7
8H	4H	21.1	21.7	21.5	22.2	22.6	14.1	14.8	14.6	15.2	15.7
	6H	21.6	22.1	22.1	22.6	23.1	14.6	15.2	15.1	15.7	16.1
	8H	21.7	22.2	22.2	22.7	23.2	14.8	15.2	15.3	15.7	16.2
	12H	21.8	22.2	22.3	22.7	23.3	14.8	15.2	15.3	15.7	16.3
12H	4H	21.1	21.6	21.5	22.1	22.6	14.2	14.8	14.7	15.3	15.8
	6H	21.5	22.0	22.1	22.5	23.0	14.8	15.2	15.3	15.7	16.3
	8H	21.7	22.1	22.2	22.6	23.2	14.9	15.3	15.4	15.8	16.4

Maximum UGR = 23.3

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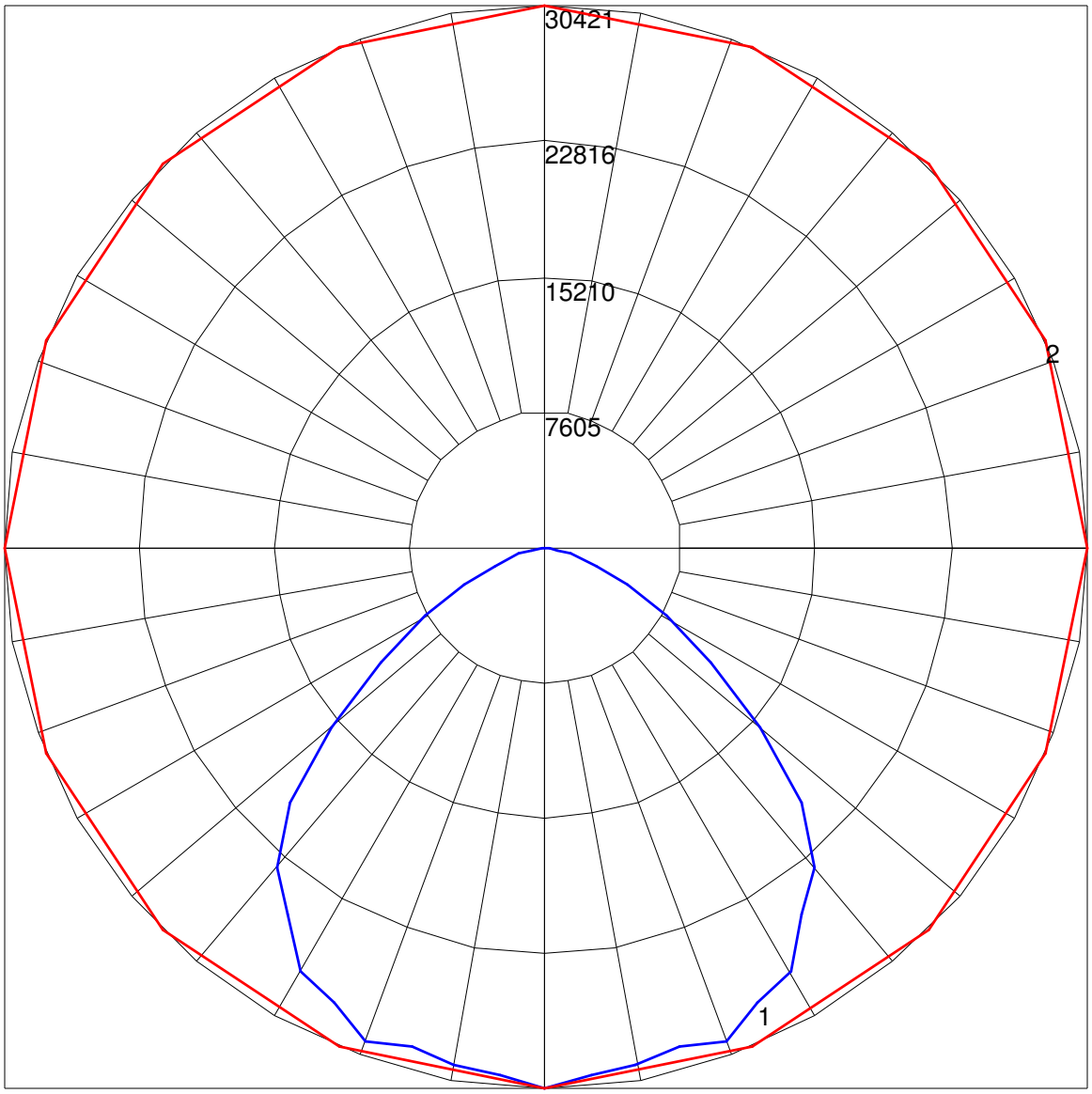
POLAR GRAPH



Maximum Candela = 30420.957 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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