H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L600-950-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-L600-950-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	49246
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	390
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	60646	6472	4784
55	41560	4804	3591
65	25150	3642	3696
75	12315	4023	3356
85	4721	1487	1487

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	49668.255	49668.255	49668.255	49668.255	49668.255
5	48557.976	48172.022	47398.351	46758.619	46388.526
10	48172.022	46591.196	43092.935	40084.607	39529.467
15	47516.428	44035.791	37377.640	32298.553	30617.273
20	48323.584	40336.622	28197.569	20580.701	18159.234
25	46136.510	34771.127	20647.670	13956.034	11971.630
30	45094.962	27876.822	12542.631	7701.461	6642.290
35	41126.154	19992.076	7414.198	4858.794	4405.870
40	38452.672	13704.018	4809.448	3648.060	3413.668
45	33241.409	8542.101	3547.607	2773.936	2622.374
50	25640.402	5732.918	2791.559	2269.904	2135.966
55	18478.219	4254.308	2135.966	1748.249	1596.687
60	12711.817	3025.952	1665.419	1462.749	1362.295
65	8238.977	1866.327	1193.110	1261.841	1210.733
70	4876.417	1344.672	1025.687	1059.171	941.094
75	2470.812	1008.063	807.155	722.563	673.217
80	1193.110	740.186	504.032	318.985	269.639
85	318.985	236.155	100.454	100.454	100.454
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	14920.39	N.A.	30.30
0-30	26164.39	N.A.	53.10
0-40	35007.07	N.A.	71.10
0-60	45565.9	N.A.	92.50
0-80	49002.39	N.A.	99.50
0-90	49246.47	N.A.	100.00
10-90	44835.26	N.A.	91.00
20-40	20086.68	N.A.	40.80
20-50	26503.18	N.A.	53.80
40-70	12884.16	N.A.	26.20
60-80	3436.49	N.A.	7.00
70-80	1111.15	N.A.	2.30
80-90	244.08	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	49246.47	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	4411.21
10-20	10509.18
20-30	11244.00
30-40	8842.68
40-50	6416.5
50-60	4142.33
60-70	2325.34
70-80	1111.15
80-90	244.08
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	20.6	21.8	20.9	22.2	22.5	13.6	13.6	13.6	13.6	13.6
	3H	22.4	23.6	22.8	23.9	24.2	13.6	14.8	14.0	15.1	15.5
	4H	22.9	24.0	23.3	24.3	24.7	14.4	15.4	14.8	15.8	16.2
	6H	23.2	24.2	23.7	24.6	25.0	14.7	15.7	15.1	16.0	16.4
	8H	23.3	24.2	23.7	24.6	25.0	14.7	15.7	15.2	16.1	16.5
	12H	23.3	24.2	23.8	24.6	25.0	14.7	15.6	15.2	16.0	16.4
4H	2H	20.4	21.5	20.8	21.8	22.2	13.6	13.6	13.6	13.6	14.0
	3H	22.3	23.2	22.7	23.6	24.0	14.5	15.4	15.0	15.8	16.2
	4H	22.9	23.6	23.3	24.1	24.5	15.4	16.2	15.8	16.6	17.0
	6H	23.3	24.0	23.8	24.4	24.9	15.8	16.5	16.3	16.9	17.4
	8H	23.4	24.0	23.9	24.5	25.0	15.9	16.5	16.3	17.0	17.4
	12H	23.5	24.0	23.9	24.5	25.0	15.9	16.5	16.4	16.9	17.4
8H	4H	22.8	23.4	23.2	23.9	24.3	15.8	16.5	16.3	16.9	17.4
	6H	23.3	23.8	23.8	24.3	24.8	16.3	16.9	16.8	17.4	17.8
	8H	23.4	23.9	23.9	24.4	24.9	16.5	16.9	17.0	17.4	17.9
	12H	23.5	23.9	24.0	24.4	25.0	16.5	16.9	17.0	17.4	18.0
12H	4H	22.8	23.3	23.2	23.8	24.3	15.9	16.5	16.4	17.0	17.5
	6H	23.2	23.7	23.8	24.2	24.7	16.5	16.9	17.0	17.4	18.0
	8H	23.4	23.8	23.9	24.3	24.9	16.6	17.0	17.1	17.5	18.1

Maximum UGR = 25.0

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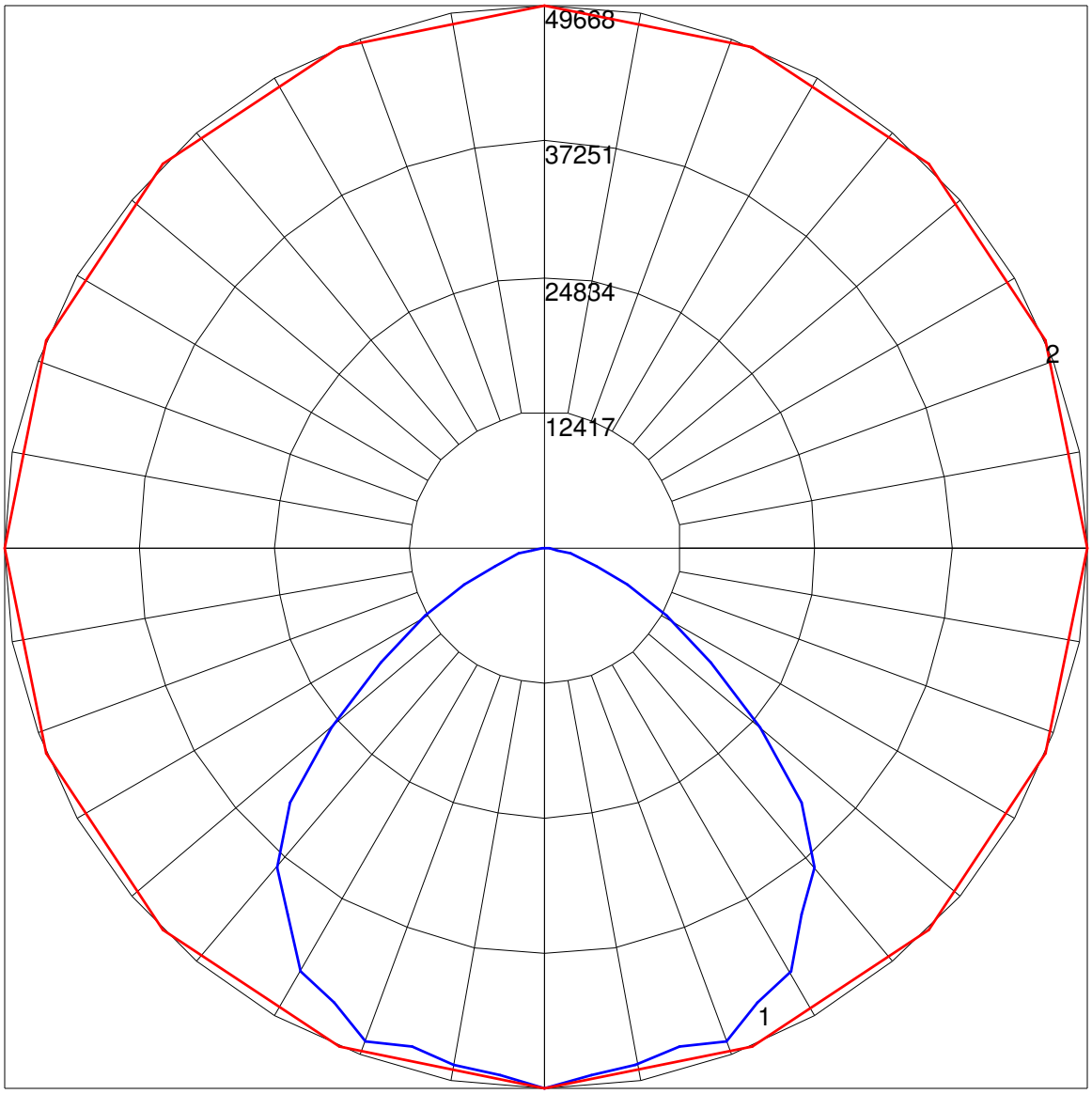
POLAR GRAPH



Maximum Candela = 49668.255 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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