H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L800-930-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-L800-930-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	63492
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
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	29495	29561	29885
55	27230	28416	21421
65	25612	20516	20887
75	19631	13085	12088
85	10769	6969	7925

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	23093.166	23093.166	23093.166	23093.166	23093.166
5	22760.879	22754.519	22760.879	22768.828	22775.188
10	22740.210	22724.311	22740.210	22768.828	22768.828
15	22264.833	22293.451	22357.047	22364.996	22357.047
20	21399.932	21420.601	21457.168	21485.786	21485.786
25	20175.716	20232.952	20275.879	20196.385	20196.385
30	19008.736	19073.922	19023.045	19008.736	19000.787
35	17762.266	17848.116	17790.880	17827.447	17833.807
40	16970.496	17078.609	16991.165	17042.041	17092.918
45	16321.821	16407.675	16358.388	16480.810	16538.046
50	14426.671	14563.401	14693.772	14793.935	14701.722
55	12223.082	12431.357	12755.695	10033.802	9615.661
60	10242.078	10443.994	10451.943	8275.382	8311.950
65	8470.939	8579.052	6785.655	6987.571	6908.076
70	6208.524	6496.294	5308.646	4645.661	3723.525
75	3976.317	3284.715	2650.348	2701.225	2448.432
80	2211.538	1981.004	1138.362	791.766	697.962
85	734.530	475.377	475.377	532.613	540.563
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	8458.62	N.A.	13.30
0-30	17796.67	N.A.	28.00
0-40	29036.96	N.A.	45.70
0-60	52092.64	N.A.	82.00
0-80	62837.84	N.A.	99.00
0-90	63491.61	N.A.	100.00
10-90	61315.38	N.A.	96.60
20-40	20578.34	N.A.	32.40
20-50	33051.59	N.A.	52.10
40-70	30475.6	N.A.	48.00
60-80	10745.21	N.A.	16.90
70-80	3325.29	N.A.	5.20
80-90	653.77	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	63491.61	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2176.23
10-20	6282.38
20-30	9338.05
30-40	11240.29
40-50	12473.24
50-60	10582.44
60-70	7419.92
70-80	3325.29
80-90	653.77
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	23.9	25.5	24.3	25.9	26.2	22.4	24.0	22.7	24.3	24.6
	3H	25.7	27.2	26.1	27.5	27.9	23.8	25.3	24.2	25.6	26.0
	4H	26.2	27.6	26.6	27.9	28.3	24.2	25.6	24.6	25.9	26.3
	6H	26.5	27.8	26.9	28.2	28.6	24.3	25.6	24.7	26.0	26.3
	8H	26.6	27.8	27.1	28.2	28.6	24.3	25.5	24.8	25.9	26.3
	12H	26.7	27.8	27.1	28.2	28.6	24.4	25.5	24.8	25.9	26.3
4H	2H	24.3	25.7	24.7	26.0	26.4	23.0	24.4	23.4	24.8	25.1
	3H	26.3	27.5	26.7	27.9	28.3	24.7	25.9	25.1	26.3	26.7
	4H	26.9	27.9	27.3	28.3	28.8	25.2	26.2	25.6	26.6	27.1
	6H	27.3	28.2	27.8	28.7	29.1	25.3	26.2	25.8	26.7	27.1
	8H	27.5	28.3	27.9	28.7	29.2	25.4	26.2	25.8	26.6	27.1
	12H	27.5	28.3	28.0	28.8	29.2	25.4	26.1	25.9	26.6	27.1
8H	4H	27.0	27.8	27.5	28.3	28.7	25.4	26.2	25.9	26.7	27.2
	6H	27.5	28.2	28.0	28.7	29.2	25.6	26.3	26.1	26.8	27.2
	8H	27.7	28.3	28.2	28.8	29.3	25.6	26.2	26.1	26.8	27.2
	12H	27.8	28.3	28.3	28.8	29.4	25.7	26.3	26.2	26.7	27.3
12H	4H	27.0	27.7	27.5	28.2	28.7	25.4	26.2	25.9	26.7	27.1
	6H	27.5	28.1	28.0	28.6	29.1	25.6	26.2	26.1	26.7	27.2
	8H	27.7	28.2	28.2	28.7	29.3	25.7	26.2	26.2	26.7	27.3

Maximum UGR = 29.4

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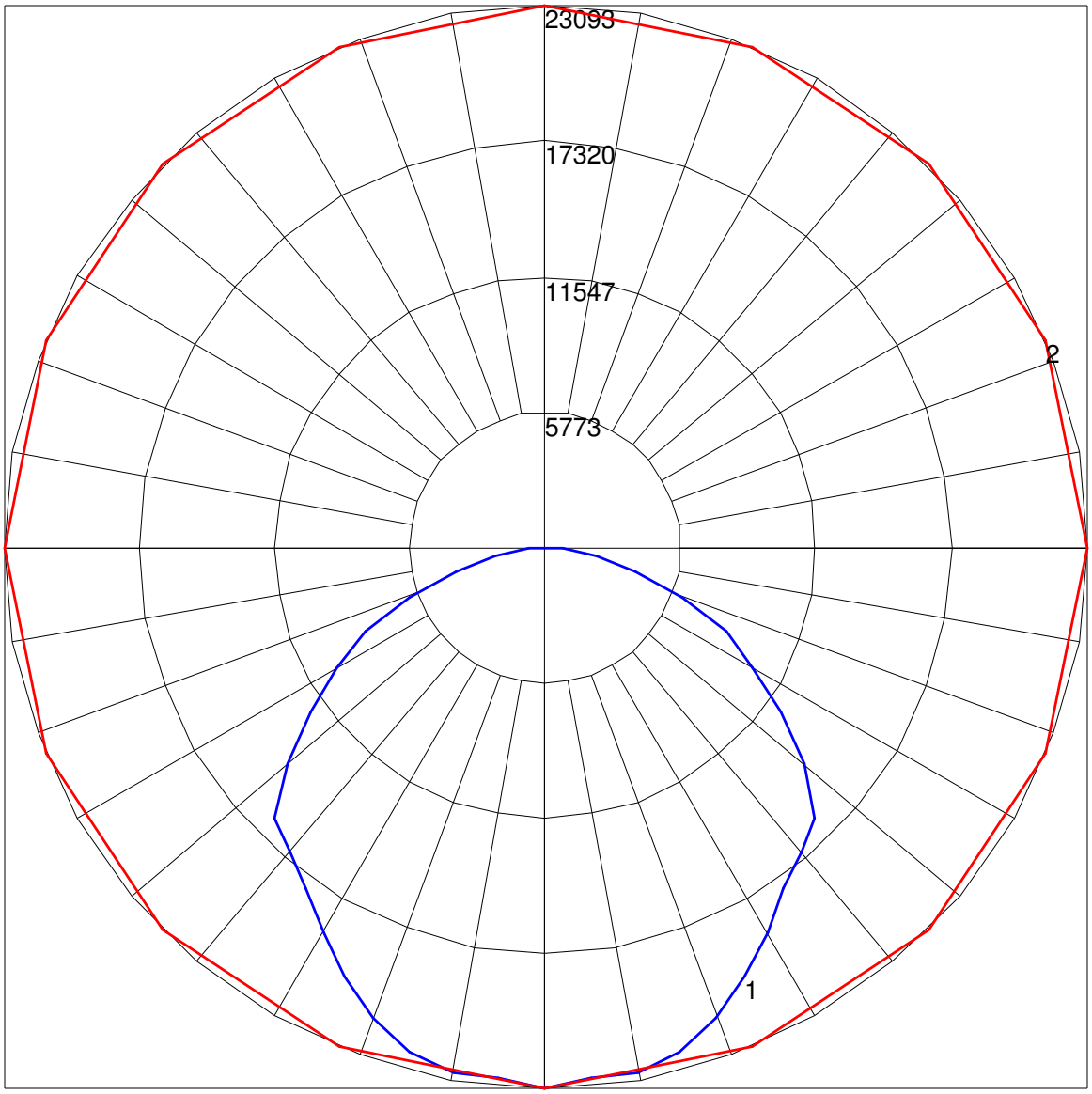
POLAR GRAPH



Maximum Candela = 23093.166 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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