H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L800-935-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-L800-935-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	64295
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
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	29868	29935	30264
55	27575	28776	21692
65	25936	20776	21151
75	19879	13250	12241
85	10905	7058	8025

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	23385.482	23385.482	23385.482	23385.482	23385.482
5	23048.989	23042.549	23048.989	23057.039	23063.479
10	23028.059	23011.959	23028.059	23057.039	23057.039
15	22546.664	22575.644	22640.045	22648.095	22640.045
20	21670.815	21691.745	21728.776	21757.756	21757.756
25	20431.103	20489.063	20532.534	20452.033	20452.033
30	19249.351	19315.362	19263.841	19249.351	19241.301
35	17987.099	18074.039	18016.079	18053.109	18059.549
40	17185.311	17294.792	17206.241	17257.761	17309.282
45	16528.424	16615.365	16565.455	16689.426	16747.386
50	14609.285	14747.746	14879.768	14981.199	14887.818
55	12377.803	12588.715	12917.158	10160.811	9737.377
60	10371.723	10576.195	10584.245	8380.133	8417.164
65	8578.165	8687.646	6871.548	7076.020	6995.519
70	6287.112	6578.525	5375.843	4704.467	3770.657
75	4026.650	3326.293	2683.897	2735.417	2479.425
80	2239.532	2006.080	1152.771	801.788	706.797
85	743.827	481.395	481.395	539.355	547.405
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	8565.69	N.A.	13.30
0-30	18021.94	N.A.	28.00
0-40	29404.52	N.A.	45.70
0-60	52752.03	N.A.	82.00
0-80	63633.25	N.A.	99.00
0-90	64295.3	N.A.	100.00
10-90	62091.51	N.A.	96.60
20-40	20838.83	N.A.	32.40
20-50	33469.95	N.A.	52.10
40-70	30861.36	N.A.	48.00
60-80	10881.22	N.A.	16.90
70-80	3367.38	N.A.	5.20
80-90	662.04	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	64295.3	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2203.78
10-20	6361.91
20-30	9456.26
30-40	11382.57
40-50	12631.13
50-60	10716.39
60-70	7513.84
70-80	3367.38
80-90	662.04
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	24.0	25.6	24.4	26.0	26.3	22.5	24.1	22.8	24.4	24.7
	3H	25.8	27.3	26.2	27.6	28.0	23.9	25.4	24.3	25.7	26.1
	4H	26.3	27.7	26.7	28.0	28.4	24.3	25.7	24.7	26.0	26.4
	6H	26.6	27.9	27.0	28.3	28.7	24.4	25.7	24.8	26.1	26.4
	8H	26.7	27.9	27.2	28.3	28.7	24.4	25.6	24.9	26.0	26.4
	12H	26.8	27.9	27.2	28.3	28.7	24.5	25.6	24.9	26.0	26.4
4H	2H	24.4	25.8	24.8	26.1	26.5	23.1	24.5	23.5	24.9	25.2
	3H	26.4	27.6	26.8	28.0	28.4	24.8	26.0	25.2	26.4	26.8
	4H	27.0	28.0	27.4	28.4	28.9	25.3	26.3	25.7	26.7	27.2
	6H	27.4	28.3	27.9	28.8	29.2	25.4	26.3	25.9	26.8	27.2
	8H	27.6	28.4	28.0	28.8	29.3	25.5	26.3	25.9	26.7	27.2
	12H	27.6	28.4	28.1	28.9	29.3	25.5	26.2	26.0	26.7	27.2
8H	4H	27.1	27.9	27.6	28.4	28.8	25.5	26.3	26.0	26.8	27.3
	6H	27.6	28.3	28.1	28.8	29.3	25.7	26.4	26.2	26.9	27.3
	8H	27.8	28.4	28.3	28.9	29.4	25.7	26.3	26.2	26.9	27.3
	12H	27.9	28.4	28.4	28.9	29.5	25.8	26.4	26.3	26.8	27.4
12H	4H	27.1	27.8	27.6	28.3	28.8	25.5	26.3	26.0	26.8	27.2
	6H	27.6	28.2	28.1	28.7	29.2	25.7	26.3	26.2	26.8	27.3
	8H	27.8	28.3	28.3	28.8	29.4	25.8	26.3	26.3	26.8	27.4

Maximum UGR = 29.5

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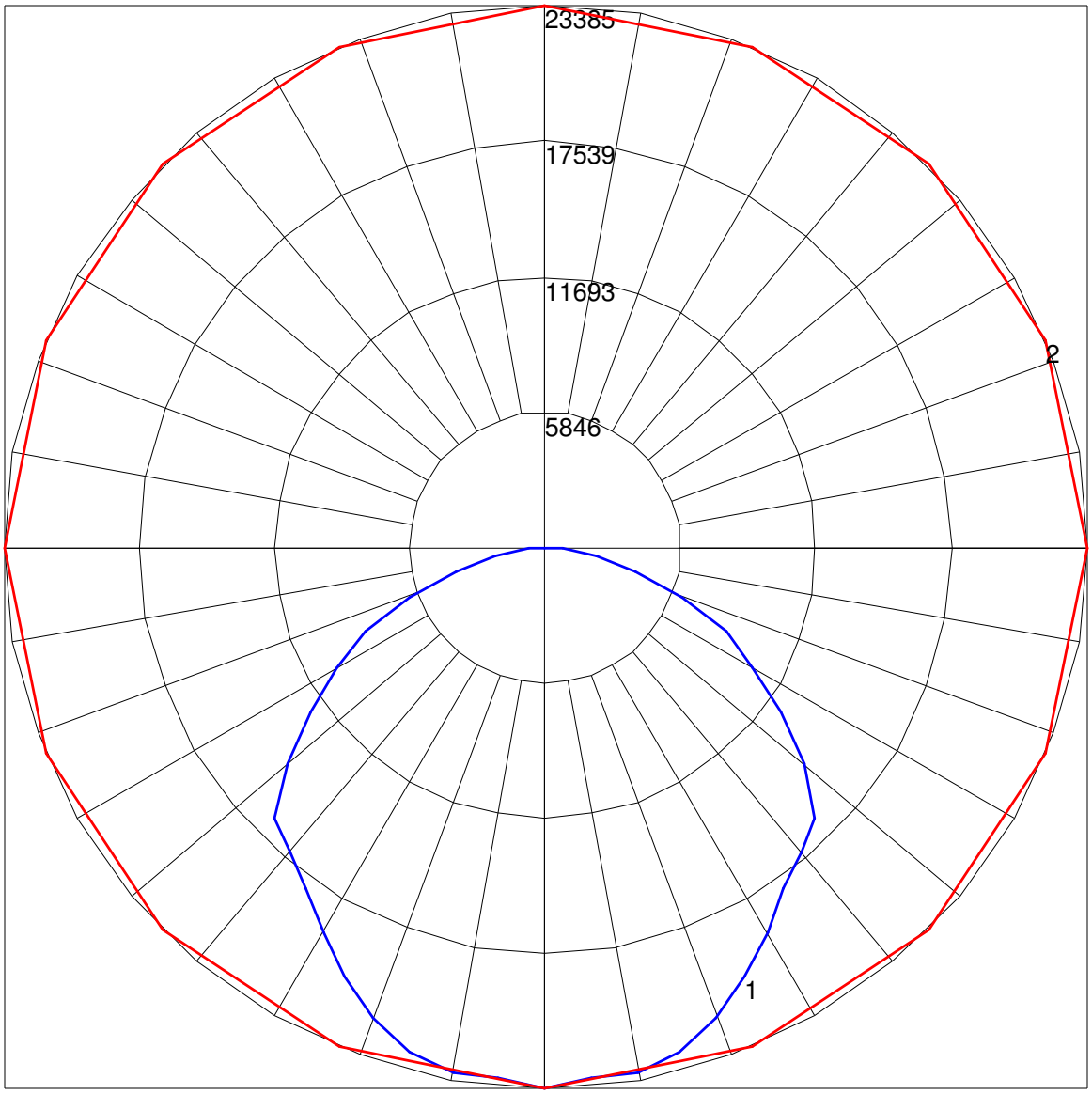
POLAR GRAPH



Maximum Candela = 23385.482 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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