H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L600-830-SAF118-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 19726.0
[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 REFLECTOR w/.118"THK FROSTED ACRYLIC LENS
[MORE] 0-10V LED DRIVERS
[LUMCAT] GL-8-L600-830-SAF118-DIM-UNV
[LAMPCAT] 22 INCH HLM LED ARRAYS
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Indoor, Commercial, Industrial, Manufacturing, High Bay
[_SEARCH_MOUNTING] Cable, Pendant, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	52253
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	400
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	8.00 ft
Luminous Width (90-270)	1.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	26600	25345	22065
55	24049	20561	19014
65	18936	15724	15072
75	13056	10691	10661
85	4662	4278	4632

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	20177.223	20177.223	20177.223	20177.223	20177.223
5	20485.228	20190.615	20058.612	19953.393	19922.784
10	20311.138	19976.350	19890.262	19769.738	19742.955
15	19984.002	19654.953	19586.082	19431.123	19411.992
20	19440.688	19205.380	19103.987	18870.591	18914.592
25	18740.502	18570.238	18428.671	18157.014	18222.058
30	17879.618	17734.224	17627.091	17284.651	17238.737
35	16815.947	16599.769	16572.986	16117.674	15782.885
40	15526.533	15312.268	15166.874	14459.036	13756.937
45	13992.245	13827.721	13332.234	12329.781	11606.638
50	12230.301	12075.342	11122.630	10227.310	9825.563
55	10261.745	10047.480	8773.371	8329.537	8113.360
60	8092.316	7895.269	6712.987	6322.719	6378.199
65	5953.496	5737.318	4943.391	4679.386	4738.692
70	4118.855	3724.761	3439.712	3240.752	3280.927
75	2513.783	2182.821	2058.471	1949.425	2052.732
80	1195.673	1031.149	971.843	950.799	1010.105
85	302.266	281.222	277.396	288.875	300.353
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	7444.62	N.A.	14.20
0-30	15928.38	N.A.	30.50
0-40	26148.48	N.A.	50.00
0-60	44333.07	N.A.	84.80
0-80	51820.59	N.A.	99.20
0-90	52252.84	N.A.	100.00
10-90	50339.77	N.A.	96.30
20-40	18703.86	N.A.	35.80
20-50	28769.28	N.A.	55.10
40-70	23358.44	N.A.	44.70
60-80	7487.52	N.A.	14.30
70-80	2313.67	N.A.	4.40
80-90	432.25	N.A.	0.80
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	52252.84	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1913.07
10-20	5531.55
20-30	8483.76
30-40	10220.1
40-50	10065.42
50-60	8119.16
60-70	5173.86
70-80	2313.67
80-90	432.25
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73
3	92	82	75	68	90	81	74	68	78	72	67	75	70	66	73	68	64	62
4	85	73	65	59	82	72	64	58	69	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	48	44	53	48	43	41
7	67	54	45	39	65	53	45	39	52	44	39	50	44	39	49	43	38	37
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	36	32	42	36	31	41	36	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

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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	23.2	24.7	23.5	25.1	25.4	21.7	23.3	22.1	23.6	23.9
	3H	24.4	25.8	24.8	26.1	26.5	23.0	24.4	23.4	24.7	25.1
	4H	24.8	26.1	25.2	26.5	26.8	23.4	24.7	23.8	25.0	25.4
	6H	25.0	26.2	25.4	26.6	27.0	23.6	24.8	24.0	25.2	25.6
	8H	25.0	26.2	25.5	26.6	27.0	23.7	24.8	24.1	25.2	25.6
	12H	25.0	26.1	25.4	26.5	26.9	23.7	24.8	24.1	25.1	25.6
4H	2H	23.5	24.8	23.9	25.1	25.5	22.2	23.6	22.6	23.9	24.3
	3H	24.9	26.0	25.3	26.4	26.8	23.7	24.8	24.1	25.2	25.6
	4H	25.4	26.3	25.8	26.7	27.2	24.2	25.1	24.6	25.6	26.0
	6H	25.6	26.5	26.1	26.9	27.4	24.5	25.3	24.9	25.8	26.2
	8H	25.7	26.5	26.2	26.9	27.4	24.5	25.3	25.0	25.8	26.2
	12H	25.7	26.4	26.2	26.9	27.4	24.6	25.3	25.0	25.7	26.2
8H	4H	25.4	26.2	25.9	26.7	27.2	24.4	25.1	24.8	25.6	26.1
	6H	25.8	26.4	26.3	26.9	27.4	24.7	25.4	25.2	25.8	26.3
	8H	25.8	26.4	26.4	26.9	27.4	24.8	25.4	25.3	25.9	26.4
	12H	25.9	26.4	26.4	26.9	27.5	24.9	25.4	25.4	25.9	26.4
12H	4H	25.4	26.1	25.9	26.6	27.1	24.4	25.1	24.8	25.5	26.0
	6H	25.8	26.4	26.3	26.8	27.4	24.7	25.3	25.2	25.8	26.3
	8H	25.9	26.4	26.4	26.9	27.4	24.8	25.3	25.3	25.8	26.4

Maximum UGR = 27.5

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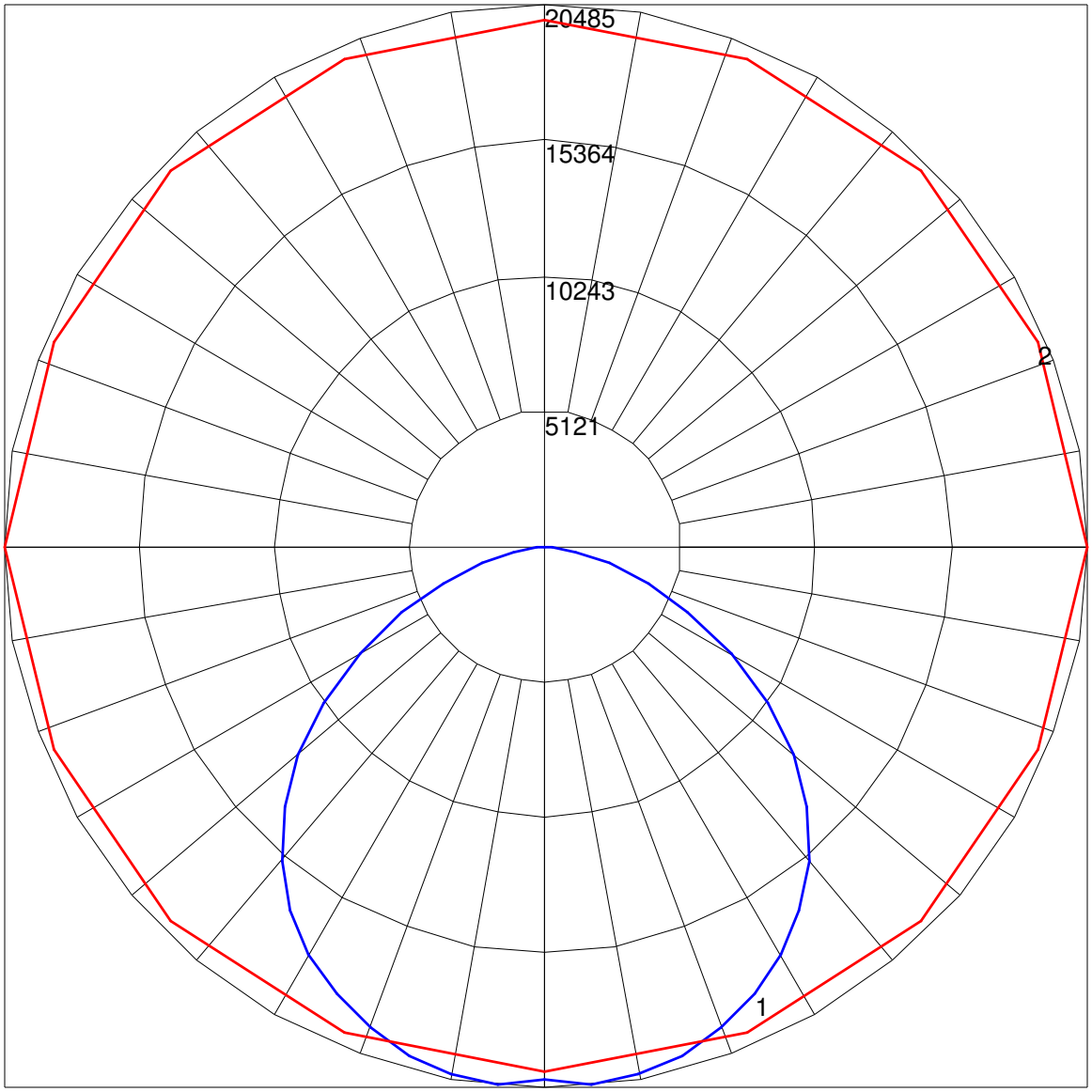
POLAR GRAPH



Maximum Candela = 20485.228 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

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