H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L600-835-SCHA118-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 19725.0
[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 CLEAR ACRYLIC LENS
[MORE] 0-10V UNIVERSAL VOLTAGE 122-277V DRIVERS
[LUMCAT] GL-8-L600-835-SCHA118-DIM-UNV_
[LAMPCAT] 22 INCH HLM LINEAR 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	54084
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	400
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.42
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	27794	27225	20781
55	26371	19332	19586
65	22109	17146	16765
75	14354	9660	7132
85	2860	2919	2443

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	20267.902	20267.902	20267.902	20267.902	20267.902
5	20493.874	20260.177	20113.392	20038.068	20057.382
10	20314.255	20080.558	19956.950	19873.901	19900.940
15	19964.675	19796.645	19671.106	19533.978	19584.194
20	19524.321	19282.898	19182.466	19060.790	19136.113
25	18935.250	18626.229	18601.121	18545.111	18556.699
30	18135.659	17851.746	17867.197	17782.216	17832.432
35	17112.027	16775.967	16943.997	16903.438	16915.026
40	15966.719	15590.100	15669.286	15874.012	15843.110
45	14620.547	14269.036	14321.183	13235.747	10931.611
50	13009.776	12805.050	12832.089	9454.105	9544.880
55	11252.220	11142.131	8248.924	8362.876	8357.081
60	9297.663	9203.026	6895.027	7028.292	7028.292
65	6951.037	7063.057	5390.482	5575.894	5270.736
70	4739.607	3754.603	3845.378	3538.288	2796.638
75	2763.805	2170.871	1859.919	1705.409	1373.211
80	1098.955	956.033	699.160	571.688	531.130
85	185.412	166.099	189.275	191.207	158.373
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	7482.17	N.A.	13.80
0-30	16070.5	N.A.	29.70
0-40	26642.72	N.A.	49.30
0-60	45729.52	N.A.	84.60
0-80	53779.65	N.A.	99.40
0-90	54084.28	N.A.	100.00
10-90	52163.59	N.A.	96.40
20-40	19160.55	N.A.	35.40
20-50	29706.71	N.A.	54.90
40-70	24927.29	N.A.	46.10
60-80	8050.13	N.A.	14.90
70-80	2209.64	N.A.	4.10
80-90	304.63	N.A.	0.60
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	54084.28	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1920.69
10-20	5561.48
20-30	8588.33
30-40	10572.22
40-50	10546.17
50-60	8540.64
60-70	5840.48
70-80	2209.64
80-90	304.63
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	78	84	80	77	81	78	75	73
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	53
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

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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	25.9	26.2	22.1	23.6	22.4	23.9	24.3
	3H	25.2	26.6	25.6	27.0	27.3	23.3	24.7	23.7	25.0	25.4
	4H	25.6	26.9	26.0	27.2	27.6	23.5	24.8	23.9	25.2	25.5
	6H	25.7	26.9	26.1	27.3	27.7	23.5	24.8	24.0	25.1	25.5
	8H	25.7	26.9	26.1	27.3	27.7	23.5	24.7	23.9	25.1	25.5
	12H	25.7	26.8	26.1	27.2	27.6	23.5	24.6	23.9	25.0	25.4
4H	2H	24.3	25.6	24.7	25.9	26.3	22.6	23.9	23.0	24.3	24.7
	3H	25.6	26.7	26.0	27.1	27.5	24.0	25.1	24.4	25.5	25.9
	4H	26.0	27.0	26.5	27.4	27.9	24.3	25.3	24.7	25.7	26.1
	6H	26.2	27.1	26.7	27.5	28.0	24.4	25.2	24.9	25.7	26.1
	8H	26.3	27.1	26.7	27.5	28.0	24.4	25.2	24.9	25.6	26.1
	12H	26.3	27.0	26.7	27.4	27.9	24.4	25.1	24.9	25.6	26.0
8H	4H	26.1	26.9	26.5	27.3	27.8	24.4	25.2	24.9	25.7	26.1
	6H	26.3	27.0	26.8	27.5	27.9	24.5	25.2	25.0	25.7	26.2
	8H	26.4	26.9	26.9	27.4	27.9	24.6	25.1	25.1	25.6	26.1
	12H	26.4	26.9	26.9	27.4	27.9	24.6	25.1	25.1	25.6	26.1
12H	4H	26.1	26.8	26.5	27.2	27.7	24.4	25.1	24.9	25.6	26.1
	6H	26.3	26.9	26.8	27.3	27.9	24.5	25.1	25.1	25.6	26.1
	8H	26.3	26.9	26.8	27.3	27.9	24.6	25.1	25.1	25.6	26.1

Maximum UGR = 28.0

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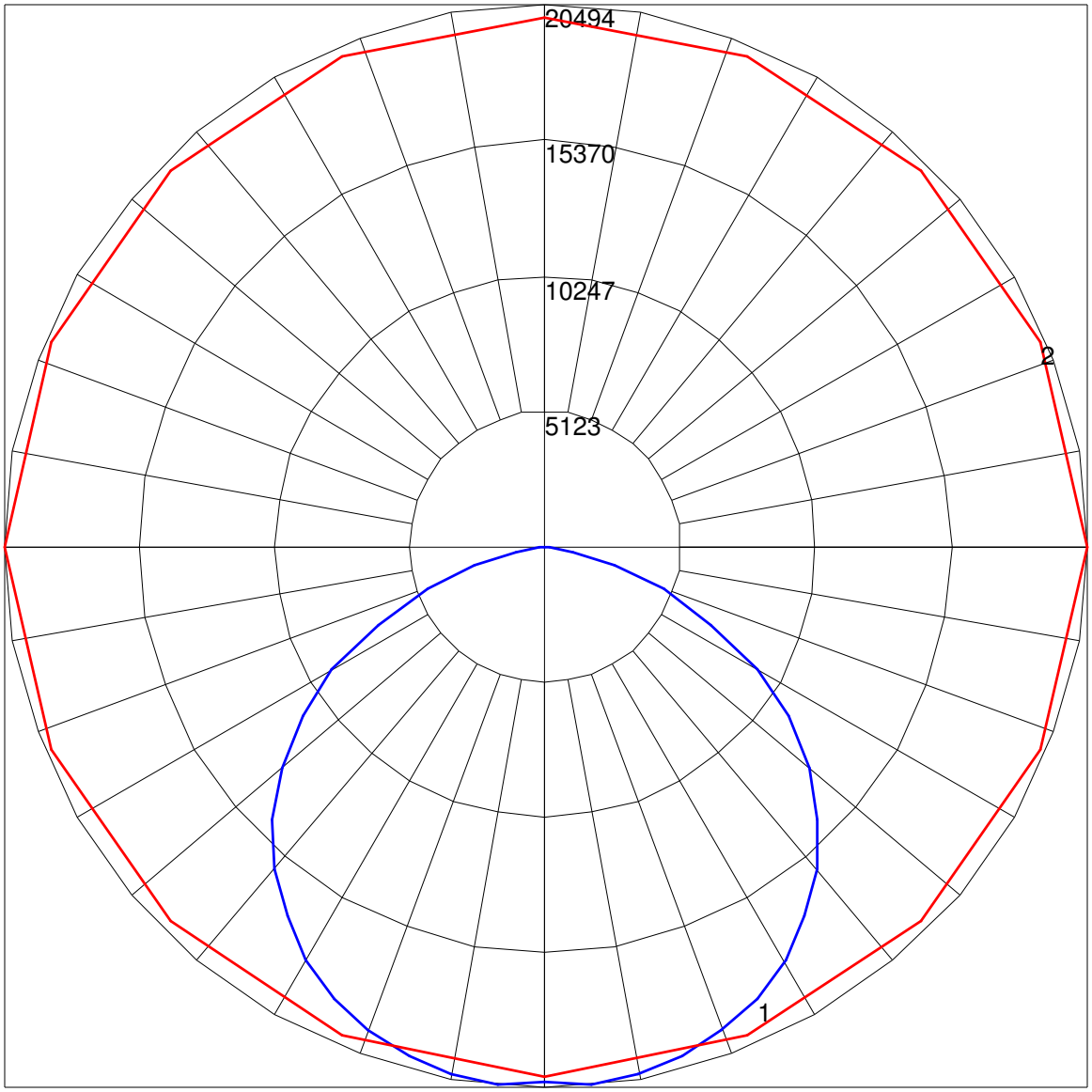
POLAR GRAPH



Maximum Candela = 20493.874 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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