H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-935-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-L300-935-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	21742
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	192
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	11068	10546	9181
55	10007	8556	7912
65	7879	6543	6272
75	5433	4449	4436
85	1940	1780	1928

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	8395.743	8395.743	8395.743	8395.743	8395.743
5	8523.904	8401.316	8346.389	8302.608	8289.871
10	8451.466	8312.160	8276.339	8226.189	8215.044
15	8315.344	8178.427	8149.770	8085.291	8077.331
20	8089.271	7991.359	7949.170	7852.054	7870.363
25	7797.924	7727.077	7668.171	7555.134	7582.199
30	7439.710	7379.211	7334.633	7192.144	7173.039
35	6997.116	6907.165	6896.020	6706.565	6567.259
40	6460.591	6371.435	6310.937	6016.405	5724.262
45	5822.174	5753.715	5547.543	5130.422	4829.523
50	5089.029	5024.550	4628.127	4255.584	4088.417
55	4269.913	4180.757	3650.600	3465.921	3375.969
60	3367.213	3285.222	2793.274	2630.884	2653.969
65	2477.250	2387.298	2056.945	1947.093	1971.770
70	1713.856	1549.873	1431.264	1348.477	1365.194
75	1045.985	908.272	856.530	811.156	854.142
80	497.520	429.061	404.384	395.628	420.305
85	125.773	117.017	115.425	120.201	124.977
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3097.71	N.A.	14.20
0-30	6627.8	N.A.	30.50
0-40	10880.39	N.A.	50.00
0-60	18446.99	N.A.	84.80
0-80	21562.55	N.A.	99.20
0-90	21742.41	N.A.	100.00
10-90	20946.38	N.A.	96.30
20-40	7782.68	N.A.	35.80
20-50	11970.9	N.A.	55.10
40-70	9719.45	N.A.	44.70
60-80	3115.56	N.A.	14.30
70-80	962.72	N.A.	4.40
80-90	179.86	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	21742.41	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	796.03
10-20	2301.68
20-30	3530.1
30-40	4252.58
40-50	4188.22
50-60	3378.38
60-70	2152.84
70-80	962.72
80-90	179.86
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	20.2	21.7	20.5	22.1	22.4	18.7	20.3	19.1	20.6	20.9
	3H	21.4	22.8	21.8	23.1	23.5	20.0	21.4	20.4	21.7	22.1
	4H	21.8	23.1	22.2	23.5	23.8	20.4	21.7	20.8	22.0	22.4
	6H	22.0	23.2	22.4	23.6	24.0	20.6	21.8	21.0	22.2	22.6
	8H	22.0	23.2	22.5	23.6	24.0	20.7	21.8	21.1	22.2	22.6
	12H	22.0	23.1	22.4	23.5	23.9	20.7	21.8	21.1	22.1	22.6
4H	2H	20.5	21.8	20.9	22.1	22.5	19.2	20.6	19.6	20.9	21.3
	3H	21.9	23.0	22.3	23.4	23.8	20.7	21.8	21.1	22.2	22.6
	4H	22.4	23.3	22.8	23.7	24.2	21.2	22.1	21.6	22.6	23.0
	6H	22.6	23.5	23.1	23.9	24.4	21.5	22.3	21.9	22.8	23.2
	8H	22.7	23.5	23.2	23.9	24.4	21.5	22.3	22.0	22.8	23.2
	12H	22.7	23.4	23.2	23.9	24.4	21.6	22.3	22.0	22.7	23.2
8H	4H	22.4	23.2	22.9	23.7	24.2	21.4	22.1	21.8	22.6	23.1
	6H	22.8	23.4	23.3	23.9	24.4	21.7	22.4	22.2	22.8	23.3
	8H	22.8	23.4	23.4	23.9	24.4	21.8	22.4	22.3	22.9	23.4
	12H	22.9	23.4	23.4	23.9	24.5	21.9	22.4	22.4	22.9	23.4
12H	4H	22.4	23.1	22.9	23.6	24.1	21.4	22.1	21.8	22.5	23.0
	6H	22.8	23.4	23.3	23.8	24.4	21.7	22.3	22.2	22.8	23.3
	8H	22.9	23.4	23.4	23.9	24.4	21.8	22.3	22.3	22.8	23.4

Maximum UGR = 24.5

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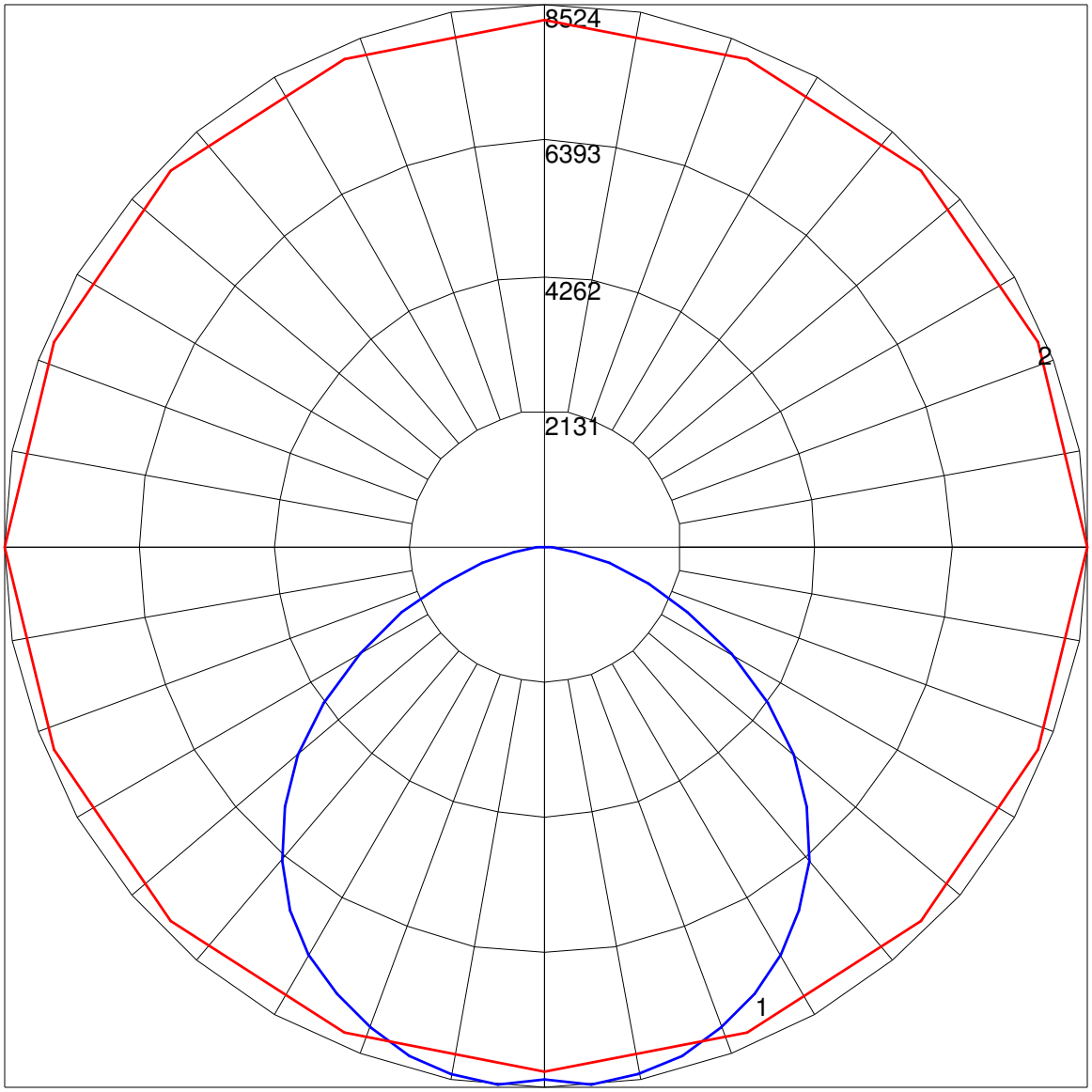
POLAR GRAPH



Maximum Candela = 8523.904 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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