H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-4-L300-850-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] 2023-07-17
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 48 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-4-L300-850-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	28715
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	200
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)	3.83 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	30799	30169	23028
55	29222	21422	21703
65	24500	18999	18577
75	15906	10704	7903
85	3169	3235	2707

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	10760.789	10760.789	10760.789	10760.789	10760.789
5	10880.764	10756.688	10678.756	10638.764	10649.018
10	10785.400	10661.323	10595.696	10551.603	10565.959
15	10599.798	10510.586	10443.934	10371.129	10397.790
20	10366.002	10237.824	10184.502	10119.900	10159.892
25	10053.248	9889.180	9875.849	9846.112	9852.265
30	9628.722	9477.985	9486.189	9441.070	9467.731
35	9085.248	8906.825	8996.036	8974.503	8980.655
40	8477.172	8277.215	8319.257	8427.952	8411.545
45	7762.452	7575.825	7603.512	7027.224	5803.894
50	6907.250	6798.555	6812.911	5019.446	5067.641
55	5974.115	5915.666	4379.582	4440.082	4437.006
60	4936.387	4886.141	3660.760	3731.514	3731.514
65	3690.498	3749.972	2861.956	2960.396	2798.380
70	2516.388	1993.422	2041.617	1878.575	1484.813
75	1467.380	1152.576	987.482	905.449	729.076
80	583.466	507.584	371.203	303.525	281.991
85	98.441	88.186	100.491	101.517	84.085
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3972.49	N.A.	13.80
0-30	8532.27	N.A.	29.70
0-40	14145.36	N.A.	49.30
0-60	24279.07	N.A.	84.60
0-80	28553.1	N.A.	99.40
0-90	28714.84	N.A.	100.00
10-90	27695.09	N.A.	96.40
20-40	10172.86	N.A.	35.40
20-50	15772.12	N.A.	54.90
40-70	13234.59	N.A.	46.10
60-80	4274.03	N.A.	14.90
70-80	1173.16	N.A.	4.10
80-90	161.74	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	28714.84	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1019.75
10-20	2952.74
20-30	4559.78
30-40	5613.09
40-50	5599.25
50-60	4534.46
60-70	3100.87
70-80	1173.16
80-90	161.74
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	24.4	25.9	24.7	26.2	26.6	22.4	24.0	22.8	24.3	24.6
	3H	25.6	27.0	25.9	27.3	27.7	23.6	25.0	24.0	25.4	25.7
	4H	25.9	27.2	26.3	27.6	28.0	23.8	25.2	24.2	25.5	25.9
	6H	26.1	27.3	26.5	27.6	28.0	23.9	25.1	24.3	25.5	25.9
	8H	26.1	27.2	26.5	27.6	28.0	23.9	25.0	24.3	25.4	25.8
	12H	26.1	27.2	26.5	27.5	28.0	23.9	25.0	24.3	25.4	25.8
4H	2H	24.6	25.9	25.0	26.3	26.7	23.0	24.3	23.4	24.6	25.0
	3H	26.0	27.1	26.4	27.5	27.9	24.4	25.5	24.8	25.9	26.3
	4H	26.4	27.4	26.8	27.8	28.2	24.7	25.6	25.1	26.1	26.5
	6H	26.6	27.4	27.1	27.9	28.4	24.8	25.6	25.2	26.0	26.5
	8H	26.6	27.4	27.1	27.9	28.3	24.7	25.5	25.2	26.0	26.4
	12H	26.6	27.3	27.1	27.8	28.3	24.7	25.4	25.2	25.9	26.4
8H	4H	26.4	27.2	26.9	27.7	28.1	24.8	25.6	25.3	26.0	26.5
	6H	26.7	27.3	27.2	27.8	28.3	24.9	25.6	25.4	26.0	26.5
	8H	26.7	27.3	27.2	27.8	28.3	24.9	25.5	25.4	26.0	26.5
	12H	26.7	27.2	27.2	27.7	28.3	24.9	25.4	25.4	25.9	26.5
12H	4H	26.4	27.1	26.9	27.6	28.1	24.8	25.5	25.3	26.0	26.4
	6H	26.6	27.2	27.2	27.7	28.2	24.9	25.5	25.4	25.9	26.5
	8H	26.7	27.2	27.2	27.7	28.3	24.9	25.4	25.4	25.9	26.5

Maximum UGR = 28.4

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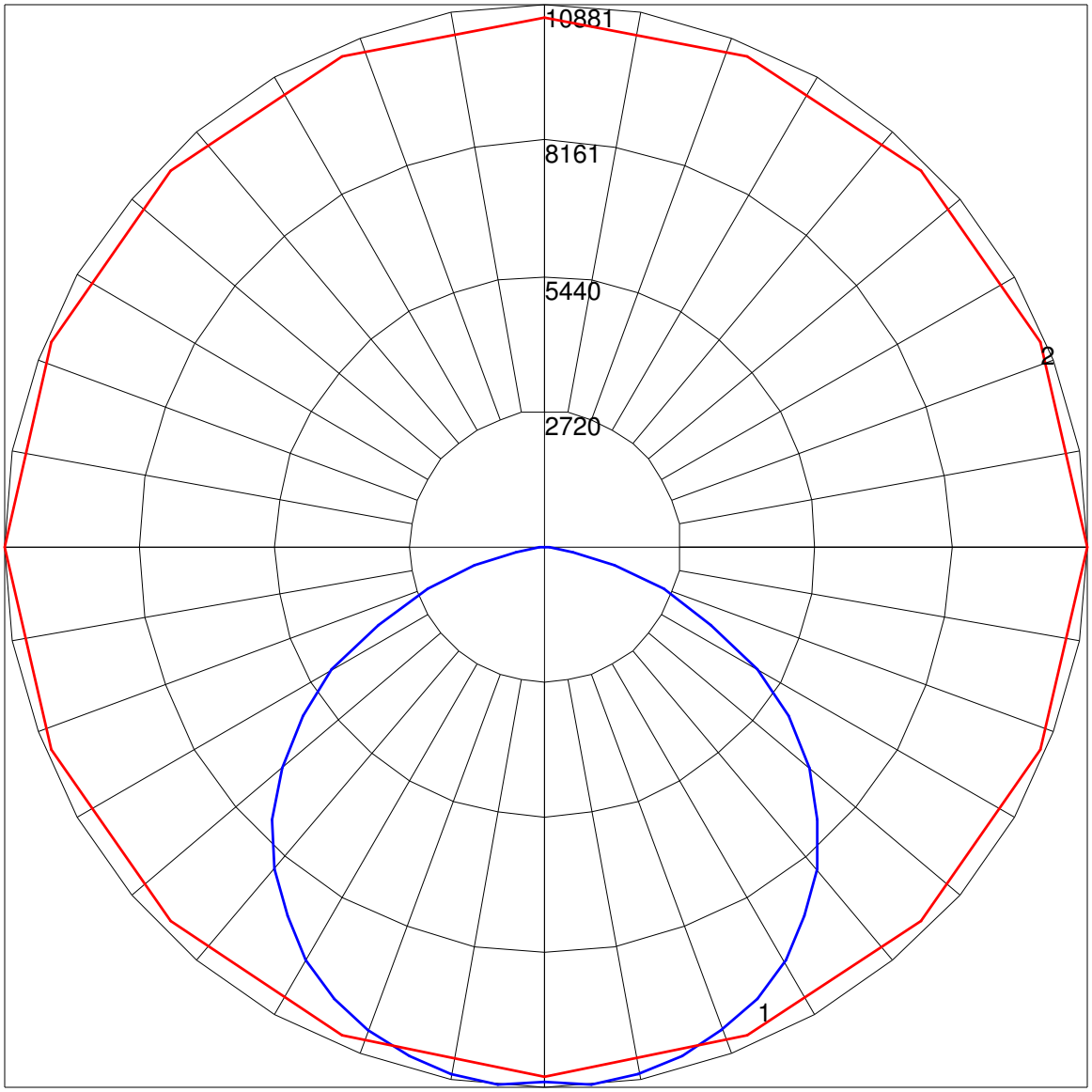
POLAR GRAPH



Maximum Candela = 10880.764 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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