H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L800-835-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-L800-835-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	77958
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
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	36215	36296	36695
55	33434	34891	26302
65	31447	25191	25645
75	24104	16066	14842
85	13223	8557	9731

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	28354.906	28354.906	28354.906	28354.906	28354.906
5	27946.908	27939.099	27946.908	27956.668	27964.477
10	27921.530	27902.008	27921.530	27956.668	27956.668
15	27337.838	27372.977	27451.063	27460.823	27451.063
20	26275.871	26301.249	26346.149	26381.287	26381.287
25	24772.720	24842.997	24895.705	24798.098	24798.098
30	23339.845	23419.883	23357.415	23339.845	23330.085
35	21809.364	21914.780	21844.502	21889.402	21897.210
40	20837.196	20969.941	20862.573	20925.042	20987.511
45	20040.720	20146.136	20085.620	20235.935	20306.212
50	17713.764	17881.648	18041.724	18164.709	18051.485
55	15008.091	15263.822	15662.059	12319.987	11806.573
60	12575.718	12823.640	12833.401	10160.915	10205.814
65	10401.028	10533.774	8331.755	8579.677	8482.070
70	7623.126	7976.464	6518.212	5704.168	4571.924
75	4882.315	4033.132	3254.226	3316.694	3006.303
80	2715.434	2432.373	1397.736	972.168	856.992
85	901.891	583.691	583.691	653.969	663.729
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	10385.9	N.A.	13.30
0-30	21851.61	N.A.	28.00
0-40	35652.98	N.A.	45.70
0-60	63961.86	N.A.	82.00
0-80	77155.34	N.A.	99.00
0-90	77958.07	N.A.	100.00
10-90	75285.98	N.A.	96.60
20-40	25267.09	N.A.	32.40
20-50	40582.33	N.A.	52.10
40-70	37419.41	N.A.	48.00
60-80	13193.48	N.A.	16.90
70-80	4082.95	N.A.	5.20
80-90	802.73	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	77958.07	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2672.09
10-20	7713.81
20-30	11465.71
30-40	13801.37
40-50	15315.25
50-60	12993.63
60-70	9110.54
70-80	4082.95
80-90	802.73
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	24.6	26.2	25.0	26.6	26.9	23.1	24.7	23.4	25.0	25.3
	3H	26.4	27.9	26.8	28.2	28.6	24.5	26.0	24.9	26.3	26.7
	4H	26.9	28.3	27.3	28.6	29.0	24.9	26.3	25.3	26.6	27.0
	6H	27.2	28.5	27.6	28.9	29.3	25.0	26.3	25.4	26.7	27.0
	8H	27.3	28.5	27.8	28.9	29.3	25.0	26.2	25.5	26.6	27.0
	12H	27.4	28.5	27.8	28.9	29.3	25.1	26.2	25.5	26.6	27.0
4H	2H	25.0	26.4	25.4	26.7	27.1	23.7	25.1	24.1	25.5	25.8
	3H	27.0	28.2	27.4	28.6	29.0	25.4	26.6	25.8	27.0	27.4
	4H	27.6	28.6	28.0	29.0	29.5	25.9	26.9	26.3	27.3	27.8
	6H	28.0	28.9	28.5	29.4	29.8	26.0	26.9	26.5	27.4	27.8
	8H	28.2	29.0	28.6	29.4	29.9	26.1	26.9	26.5	27.3	27.8
	12H	28.2	29.0	28.7	29.5	29.9	26.1	26.8	26.6	27.3	27.8
8H	4H	27.7	28.5	28.2	29.0	29.4	26.1	26.9	26.6	27.4	27.9
	6H	28.2	28.9	28.7	29.4	29.9	26.3	27.0	26.8	27.5	27.9
	8H	28.4	29.0	28.9	29.5	30.0	26.3	26.9	26.8	27.5	27.9
	12H	28.5	29.0	29.0	29.5	30.1	26.4	27.0	26.9	27.4	28.0
12H	4H	27.7	28.4	28.2	28.9	29.4	26.1	26.9	26.6	27.4	27.8
	6H	28.2	28.8	28.7	29.3	29.8	26.3	26.9	26.8	27.4	27.9
	8H	28.4	28.9	28.9	29.4	30.0	26.4	26.9	26.9	27.4	28.0

Maximum UGR = 30.1

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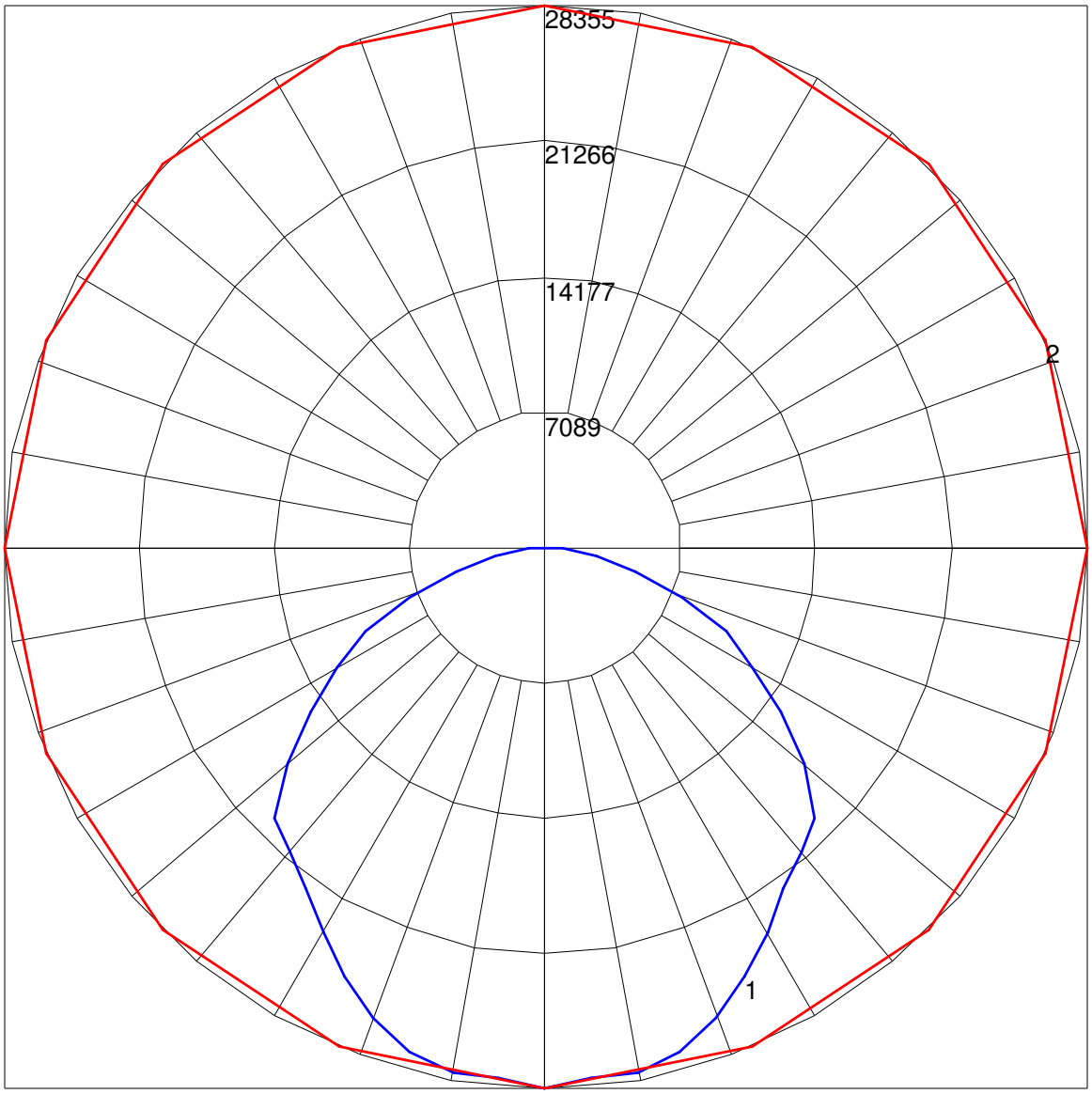
POLAR GRAPH



Maximum Candela = 28354.906 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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