H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L600-835-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-L600-835-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	58469
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	400
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	27161	27222	27521
55	25076	26169	19727
65	23586	18893	19234
75	18078	12050	11132
85	9917	6418	7298

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	21266.357	21266.357	21266.357	21266.357	21266.357
5	20960.356	20954.500	20960.356	20967.677	20973.533
10	20941.322	20926.681	20941.322	20967.677	20967.677
15	20503.550	20529.904	20588.469	20595.790	20588.469
20	19707.068	19726.102	19759.777	19786.131	19786.131
25	18579.695	18632.404	18671.935	18598.729	18598.729
30	17505.030	17565.059	17518.208	17505.030	17497.710
35	16357.160	16436.222	16383.514	16417.189	16423.045
40	15628.027	15727.588	15647.061	15693.913	15740.765
45	15030.666	15109.729	15064.341	15177.078	15229.786
50	13285.434	13411.348	13531.406	13623.646	13538.727
55	11256.162	11447.962	11746.643	9240.068	8855.004
60	9431.867	9617.811	9625.131	7620.750	7654.425
65	7800.837	7900.397	6248.868	6434.812	6361.606
70	5717.392	5982.398	4888.700	4278.162	3428.971
75	3661.767	3024.874	2440.690	2487.542	2254.746
80	2036.592	1824.295	1048.311	729.132	642.749
85	676.424	437.772	437.772	490.481	497.801
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	7789.49	N.A.	13.30
0-30	16388.84	N.A.	28.00
0-40	26739.96	N.A.	45.70
0-60	47971.79	N.A.	82.00
0-80	57866.99	N.A.	99.00
0-90	58469.04	N.A.	100.00
10-90	56464.96	N.A.	96.60
20-40	18950.47	N.A.	32.40
20-50	30437.00	N.A.	52.10
40-70	28064.79	N.A.	48.00
60-80	9895.2	N.A.	16.90
70-80	3062.24	N.A.	5.20
80-90	602.05	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	58469.04	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2004.08
10-20	5785.41
20-30	8599.36
30-40	10351.12
40-50	11486.53
50-60	9745.3
60-70	6832.96
70-80	3062.24
80-90	602.05
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	23.6	25.2	24.0	25.6	25.9	22.1	23.7	22.4	24.0	24.3
	3H	25.4	26.9	25.8	27.2	27.6	23.5	25.0	23.9	25.3	25.7
	4H	25.9	27.3	26.3	27.6	28.0	23.9	25.3	24.3	25.6	26.0
	6H	26.2	27.5	26.6	27.9	28.3	24.0	25.3	24.4	25.7	26.0
	8H	26.3	27.5	26.8	27.9	28.3	24.0	25.2	24.5	25.6	26.0
	12H	26.4	27.5	26.8	27.9	28.3	24.1	25.2	24.5	25.6	26.0
4H	2H	24.0	25.4	24.4	25.7	26.1	22.7	24.1	23.1	24.5	24.8
	3H	26.0	27.2	26.4	27.6	28.0	24.4	25.6	24.8	26.0	26.4
	4H	26.6	27.6	27.0	28.0	28.5	24.9	25.9	25.3	26.3	26.8
	6H	27.0	27.9	27.5	28.4	28.8	25.0	25.9	25.5	26.4	26.8
	8H	27.2	28.0	27.6	28.4	28.9	25.1	25.9	25.5	26.3	26.8
	12H	27.2	28.0	27.7	28.5	28.9	25.1	25.8	25.6	26.3	26.8
8H	4H	26.7	27.5	27.2	28.0	28.4	25.1	25.9	25.6	26.4	26.9
	6H	27.2	27.9	27.7	28.4	28.9	25.3	26.0	25.8	26.5	26.9
	8H	27.4	28.0	27.9	28.5	29.0	25.3	25.9	25.8	26.5	26.9
	12H	27.5	28.0	28.0	28.5	29.1	25.4	26.0	25.9	26.4	27.0
12H	4H	26.7	27.4	27.2	27.9	28.4	25.1	25.9	25.6	26.4	26.8
	6H	27.2	27.8	27.7	28.3	28.8	25.3	25.9	25.8	26.4	26.9
	8H	27.4	27.9	27.9	28.4	29.0	25.4	25.9	25.9	26.4	27.0

Maximum UGR = 29.1

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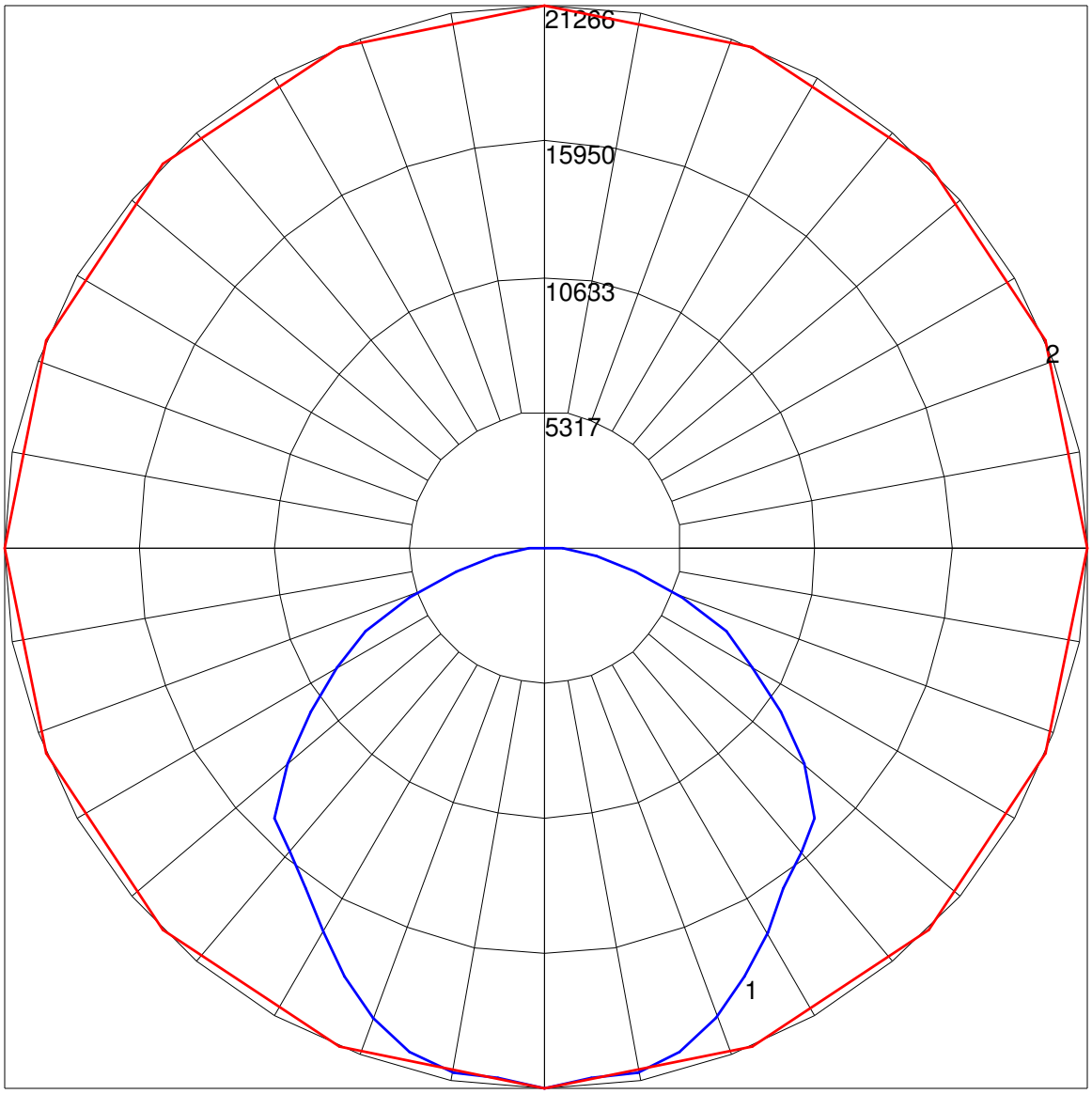
POLAR GRAPH



Maximum Candela = 21266.357 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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