H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L800-950-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-L800-950-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	69117
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
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	32108	32180	32533
55	29643	30934	23319
65	27881	22334	22737
75	21370	14244	13159
85	11723	7587	8627

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	25139.391	25139.391	25139.391	25139.391	25139.391
5	24777.661	24770.737	24777.661	24786.314	24793.237
10	24755.161	24737.853	24755.161	24786.314	24786.314
15	24237.661	24268.815	24338.046	24346.700	24338.046
20	23296.124	23318.624	23358.432	23389.585	23389.585
25	21963.433	22025.741	22072.472	21985.933	21985.933
30	20693.050	20764.012	20708.627	20693.050	20684.397
35	19336.129	19429.590	19367.283	19407.091	19414.014
40	18474.207	18591.899	18496.707	18552.092	18607.476
45	17768.054	17861.516	17807.862	17941.131	18003.438
50	15704.980	15853.826	15995.749	16104.787	16004.403
55	13306.137	13532.867	13885.944	10922.871	10467.679
60	11149.601	11369.408	11378.062	9008.642	9048.450
65	9221.527	9339.219	7386.914	7606.721	7520.183
70	6758.645	7071.914	5779.031	5057.301	4053.456
75	4328.648	3575.765	2885.189	2940.573	2665.381
80	2407.497	2156.536	1239.229	861.922	759.807
85	799.614	517.499	517.499	579.807	588.461
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	9208.11	N.A.	13.30
0-30	19373.59	N.A.	28.00
0-40	31609.85	N.A.	45.70
0-60	56708.43	N.A.	82.00
0-80	68405.74	N.A.	99.00
0-90	69117.44	N.A.	100.00
10-90	66748.37	N.A.	96.60
20-40	22401.74	N.A.	32.40
20-50	35980.2	N.A.	52.10
40-70	33175.96	N.A.	48.00
60-80	11697.31	N.A.	16.90
70-80	3619.93	N.A.	5.20
80-90	711.69	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	69117.44	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2369.07
10-20	6839.05
20-30	10165.47
30-40	12236.26
40-50	13578.46
50-60	11520.12
60-70	8077.38
70-80	3619.93
80-90	711.69
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	24.2	25.8	24.6	26.2	26.5	22.7	24.3	23.0	24.6	24.9
	3H	26.0	27.5	26.4	27.8	28.2	24.1	25.6	24.5	25.9	26.3
	4H	26.5	27.9	26.9	28.2	28.6	24.5	25.9	24.9	26.2	26.6
	6H	26.8	28.1	27.2	28.5	28.9	24.6	25.9	25.0	26.3	26.6
	8H	26.9	28.1	27.4	28.5	28.9	24.6	25.8	25.1	26.2	26.6
	12H	27.0	28.1	27.4	28.5	28.9	24.7	25.8	25.1	26.2	26.6
4H	2H	24.6	26.0	25.0	26.3	26.7	23.3	24.7	23.7	25.1	25.4
	3H	26.6	27.8	27.0	28.2	28.6	25.0	26.2	25.4	26.6	27.0
	4H	27.2	28.2	27.6	28.6	29.1	25.5	26.5	25.9	26.9	27.4
	6H	27.6	28.5	28.1	29.0	29.4	25.6	26.5	26.1	27.0	27.4
	8H	27.8	28.6	28.2	29.0	29.5	25.7	26.5	26.1	26.9	27.4
	12H	27.8	28.6	28.3	29.1	29.5	25.7	26.4	26.2	26.9	27.4
8H	4H	27.3	28.1	27.8	28.6	29.0	25.7	26.5	26.2	27.0	27.5
	6H	27.8	28.5	28.3	29.0	29.5	25.9	26.6	26.4	27.1	27.5
	8H	28.0	28.6	28.5	29.1	29.6	25.9	26.5	26.4	27.1	27.5
	12H	28.1	28.6	28.6	29.1	29.7	26.0	26.6	26.5	27.0	27.6
12H	4H	27.3	28.0	27.8	28.5	29.0	25.7	26.5	26.2	27.0	27.4
	6H	27.8	28.4	28.3	28.9	29.4	25.9	26.5	26.4	27.0	27.5
	8H	28.0	28.5	28.5	29.0	29.6	26.0	26.5	26.5	27.0	27.6

Maximum UGR = 29.7

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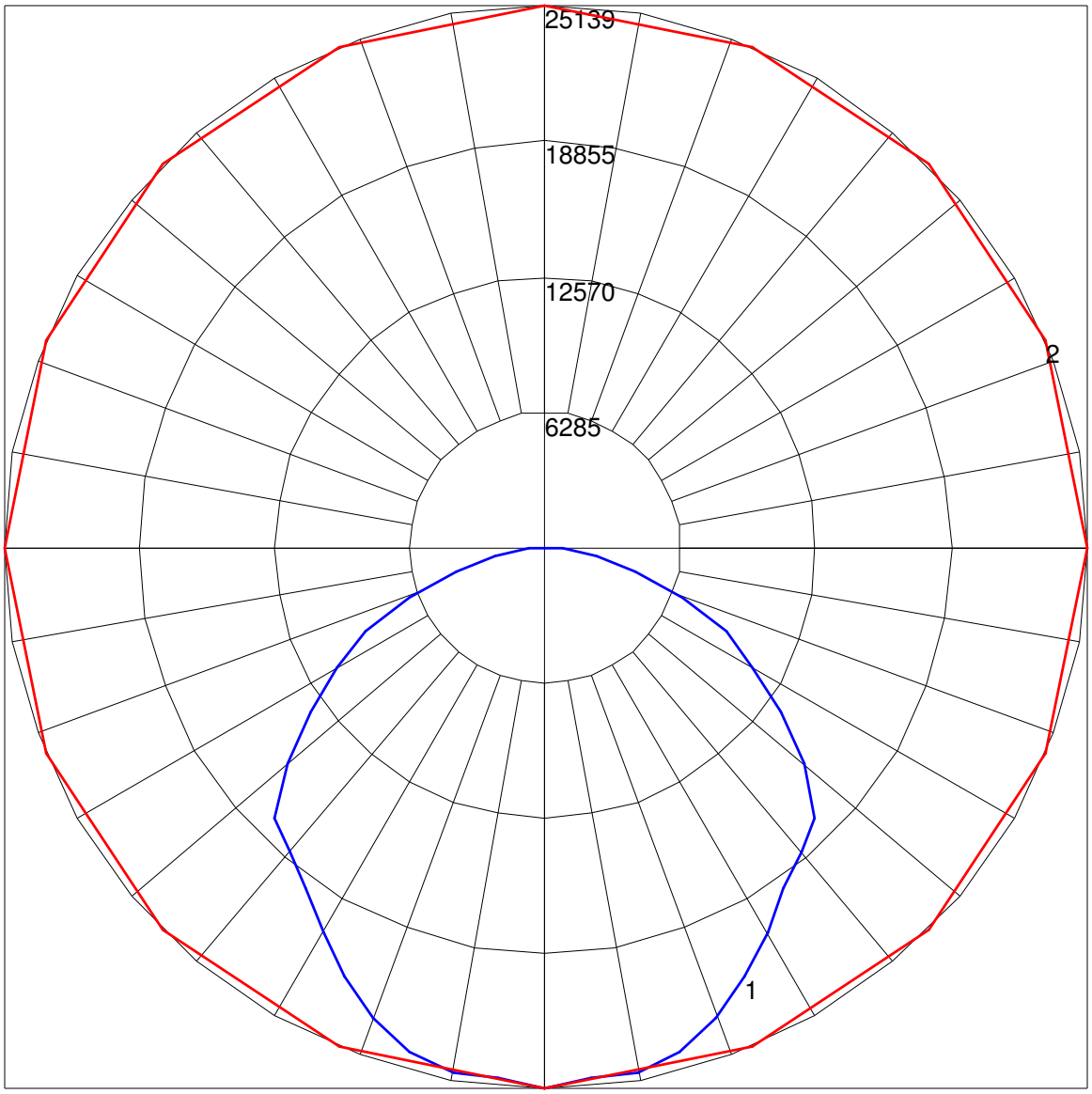
POLAR GRAPH



Maximum Candela = 25139.391 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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