H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L800-850-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-L800-850-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	82780
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
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	38455	38541	38964
55	35502	37049	27929
65	33393	26749	27232
75	25595	17060	15760
85	14040	9087	10333

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	30108.814	30108.814	30108.814	30108.814	30108.814
5	29675.579	29667.288	29675.579	29685.944	29694.235
10	29648.632	29627.903	29648.632	29685.944	29685.944
15	29028.836	29066.148	29149.064	29159.428	29149.064
20	27901.180	27928.128	27975.804	28013.117	28013.117
25	26305.050	26379.675	26435.643	26331.998	26331.998
30	24783.545	24868.533	24802.201	24783.545	24773.180
35	23158.394	23270.331	23195.706	23243.383	23251.674
40	22126.092	22267.049	22153.040	22219.372	22285.705
45	21280.350	21392.287	21328.027	21487.640	21562.264
50	18809.458	18987.727	19157.705	19288.297	19168.069
55	15936.424	16207.974	16630.845	13082.047	12536.875
60	13353.596	13616.854	13627.218	10789.424	10837.100
65	11044.390	11185.347	8847.120	9110.378	9006.733
70	8094.659	8469.853	6921.400	6057.002	4854.722
75	5184.313	4282.603	3455.518	3521.850	3192.260
80	2883.398	2582.828	1484.194	1032.302	910.001
85	957.678	619.796	619.796	694.420	704.785
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	11028.32	N.A.	13.30
0-30	23203.26	N.A.	28.00
0-40	37858.32	N.A.	45.70
0-60	67918.26	N.A.	82.00
0-80	81927.83	N.A.	99.00
0-90	82780.21	N.A.	100.00
10-90	79942.84	N.A.	96.60
20-40	26830.00	N.A.	32.40
20-50	43092.58	N.A.	52.10
40-70	39734.01	N.A.	48.00
60-80	14009.57	N.A.	16.90
70-80	4335.5	N.A.	5.20
80-90	852.38	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	82780.21	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2837.37
10-20	8190.96
20-30	12174.93
30-40	14655.07
40-50	16262.58
50-60	13797.36
60-70	9674.07
70-80	4335.5
80-90	852.38
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	24.8	26.4	25.2	26.8	27.1	23.3	24.9	23.6	25.2	25.5
	3H	26.6	28.1	27.0	28.4	28.8	24.7	26.2	25.1	26.5	26.9
	4H	27.1	28.5	27.5	28.8	29.2	25.1	26.5	25.5	26.8	27.2
	6H	27.4	28.7	27.8	29.1	29.5	25.2	26.5	25.6	26.9	27.2
	8H	27.5	28.7	28.0	29.1	29.5	25.2	26.4	25.7	26.8	27.2
	12H	27.6	28.7	28.0	29.1	29.5	25.3	26.4	25.7	26.8	27.2
4H	2H	25.2	26.6	25.6	26.9	27.3	23.9	25.3	24.3	25.7	26.0
	3H	27.2	28.4	27.6	28.8	29.2	25.6	26.8	26.0	27.2	27.6
	4H	27.8	28.8	28.2	29.2	29.7	26.1	27.1	26.5	27.5	28.0
	6H	28.2	29.1	28.7	29.6	30.0	26.2	27.1	26.7	27.6	28.0
	8H	28.4	29.2	28.8	29.6	30.1	26.3	27.1	26.7	27.5	28.0
	12H	28.4	29.2	28.9	29.7	30.1	26.3	27.0	26.8	27.5	28.0
8H	4H	27.9	28.7	28.4	29.2	29.6	26.3	27.1	26.8	27.6	28.1
	6H	28.4	29.1	28.9	29.6	30.1	26.5	27.2	27.0	27.7	28.1
	8H	28.6	29.2	29.1	29.7	30.2	26.5	27.1	27.0	27.7	28.1
	12H	28.7	29.2	29.2	29.7	30.3	26.6	27.2	27.1	27.6	28.2
12H	4H	27.9	28.6	28.4	29.1	29.6	26.3	27.1	26.8	27.6	28.0
	6H	28.4	29.0	28.9	29.5	30.0	26.5	27.1	27.0	27.6	28.1
	8H	28.6	29.1	29.1	29.6	30.2	26.6	27.1	27.1	27.6	28.2

Maximum UGR = 30.3

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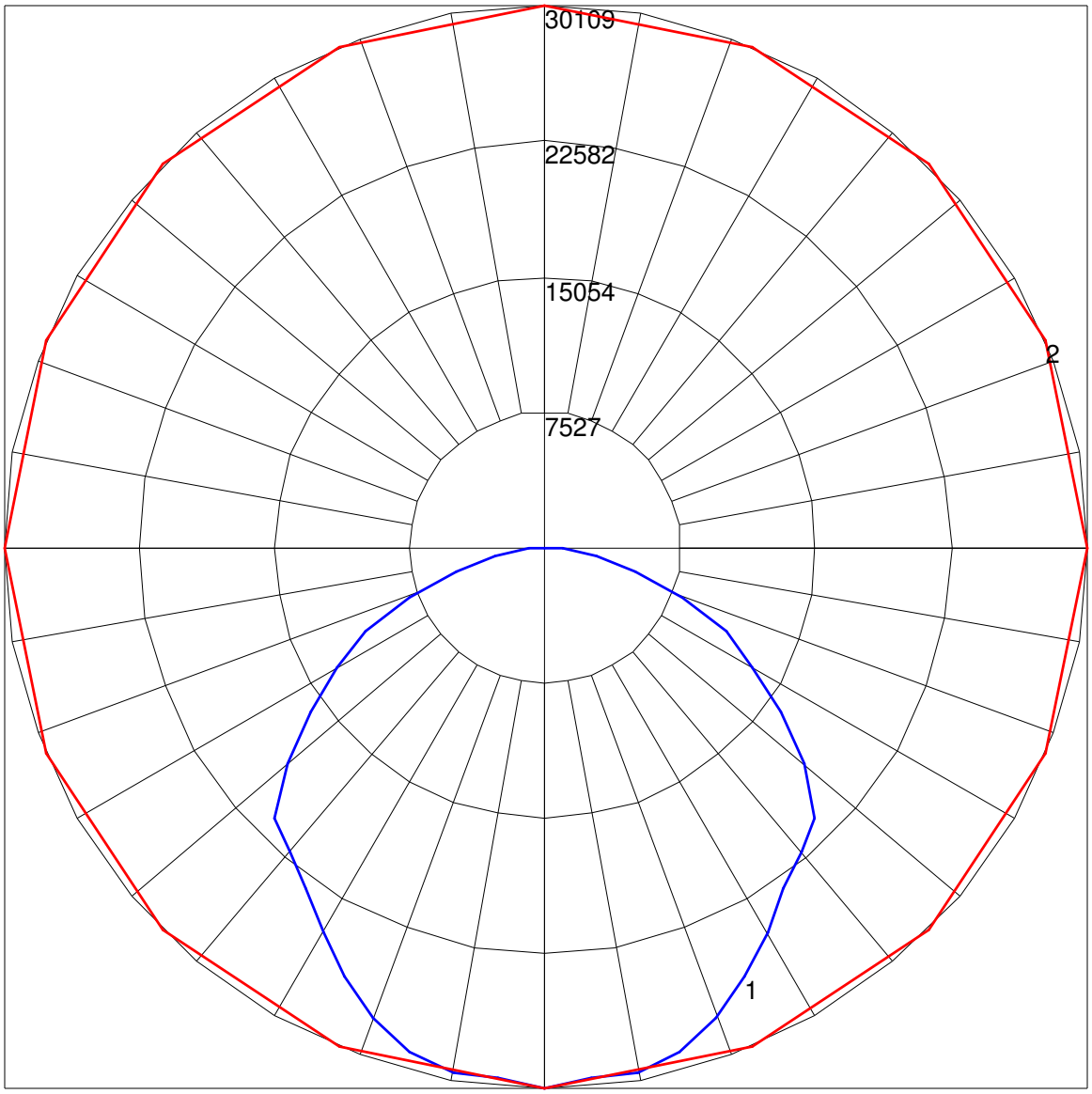
POLAR GRAPH



Maximum Candela = 30108.814 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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