H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L600-930-ND-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 19459.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 2023-07-20
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 96 INCH LOW PROFILE LED HIGHBAY LUMINAIRE
[MORE] WHITE REFL w/CLEAR ACRYLIC ROD DIFFUSERS OVER LED
[MORE] 0-10V UNIVERSAL VOLTAGE 120-277 DRIVERS
[LUMCAT] GL-8-L600-930-ND-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	45238
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	390
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	0.58
Spacing Criterion (Diagonal)	0.72
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	8.00 ft
Luminous Width (90-270)	1.04 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	55709	5945	4395
55	38177	4413	3299
65	23103	3346	3395
75	11313	3696	3082
85	4337	1366	1366

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	45625.48	45625.48	45625.48	45625.48	45625.487
5	44605.58	44251.04	43540.34	42952.68	42612.712
10	44251.04	42798.88	39585.36	36821.90	36311.950
15	43648.80	40451.48	34335.27	29669.59	28125.167
20	44390.26	37053.40	25902.41	18905.52	16681.156
25	42381.21	31940.91	18967.04	12820.07	10997.195
30	41424.43	25607.77	11521.71	97074.597	6101.638
35	37778.67	18364.81	36810.717	4463.310	4047.253
40	35322.80	112588.57	44417.981	3351.125	3135.811
45	30535.71	17846.813	3258.848	2548.150	2408.925
50	23553.39	15266.285	2564.339	2085.145	1962.108
55	16974.17	73908.027	1962.108	1605.950	1466.724
60	11677.13	32779.653	1529.861	1343.688	1251.410
65	7568.362	1714.416	1095.996	1159.133	1112.185
70	4479.499	1235.221	942.200	972.960	864.493
75	2269.699	926.011	741.457	663.749	618.420
80	1095.996	679.938	463.006	293.021	247.692
85	293.021	216.933	92.277	92.277	92.277
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	13705.94	N.A.	30.30
0-30	24034.73	N.A.	53.10
0-40	32157.66	N.A.	71.10
0-60	41857.04	N.A.	92.50
0-80	45013.82	N.A.	99.50
0-90	45238.03	N.A.	100.00
10-90	41185.88	N.A.	91.00
20-40	18451.72	N.A.	40.80
20-50	24345.94	N.A.	53.80
40-70	11835.45	N.A.	26.20
60-80	3156.77	N.A.	7.00
70-80	1020.71	N.A.	2.30
80-90	224.22	N.A.	0.50
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	45238.03	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	4052.16
10-20	9653.78
20-30	10328.79
30-40	8122.93
40-50	5894.22
50-60	3805.16
60-70	2136.07
70-80	1020.71
80-90	224.22
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	51
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	48	47
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44
10	65	54	47	43	64	53	47	43	52	46	42	51	46	42	51	46	42	41

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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	20.2	21.5	20.6	21.9	22.2	13.3	13.3	13.3	13.3	13.3
	3H	22.1	23.3	22.5	23.6	23.9	13.3	14.5	13.7	14.8	15.2
	4H	22.6	23.7	23.0	24.0	24.4	14.1	15.1	14.5	15.5	15.9
	6H	22.9	23.9	23.4	24.3	24.7	14.4	15.4	14.8	15.7	16.1
	8H	23.0	23.9	23.4	24.3	24.7	14.4	15.4	14.9	15.8	16.2
	12H	23.0	23.9	23.5	24.3	24.7	14.4	15.3	14.9	15.7	16.1
4H	2H	20.1	21.2	20.5	21.5	21.9	13.3	13.3	13.3	13.3	13.7
	3H	22.0	22.9	22.4	23.3	23.7	14.2	15.1	14.7	15.5	15.9
	4H	22.6	23.3	23.0	23.8	24.2	15.1	15.9	15.5	16.3	16.7
	6H	23.0	23.7	23.5	24.1	24.6	15.5	16.2	16.0	16.6	17.1
	8H	23.1	23.7	23.6	24.2	24.7	15.6	16.2	16.0	16.7	17.1
	12H	23.2	23.7	23.6	24.2	24.7	15.6	16.2	16.1	16.6	17.1
8H	4H	22.5	23.1	22.9	23.6	24.0	15.5	16.2	16.0	16.6	17.1
	6H	23.0	23.5	23.5	24.0	24.5	16.0	16.6	16.5	17.1	17.5
	8H	23.1	23.6	23.6	24.1	24.6	16.2	16.6	16.7	17.1	17.6
	12H	23.2	23.6	23.7	24.1	24.7	16.2	16.6	16.7	17.1	17.7
12H	4H	22.5	23.0	22.9	23.5	24.0	15.6	16.2	16.1	16.7	17.2
	6H	22.9	23.4	23.5	23.9	24.4	16.2	16.6	16.7	17.1	17.7
	8H	23.1	23.5	23.6	24.0	24.6	16.3	16.7	16.8	17.2	17.8

Maximum UGR = 24.7

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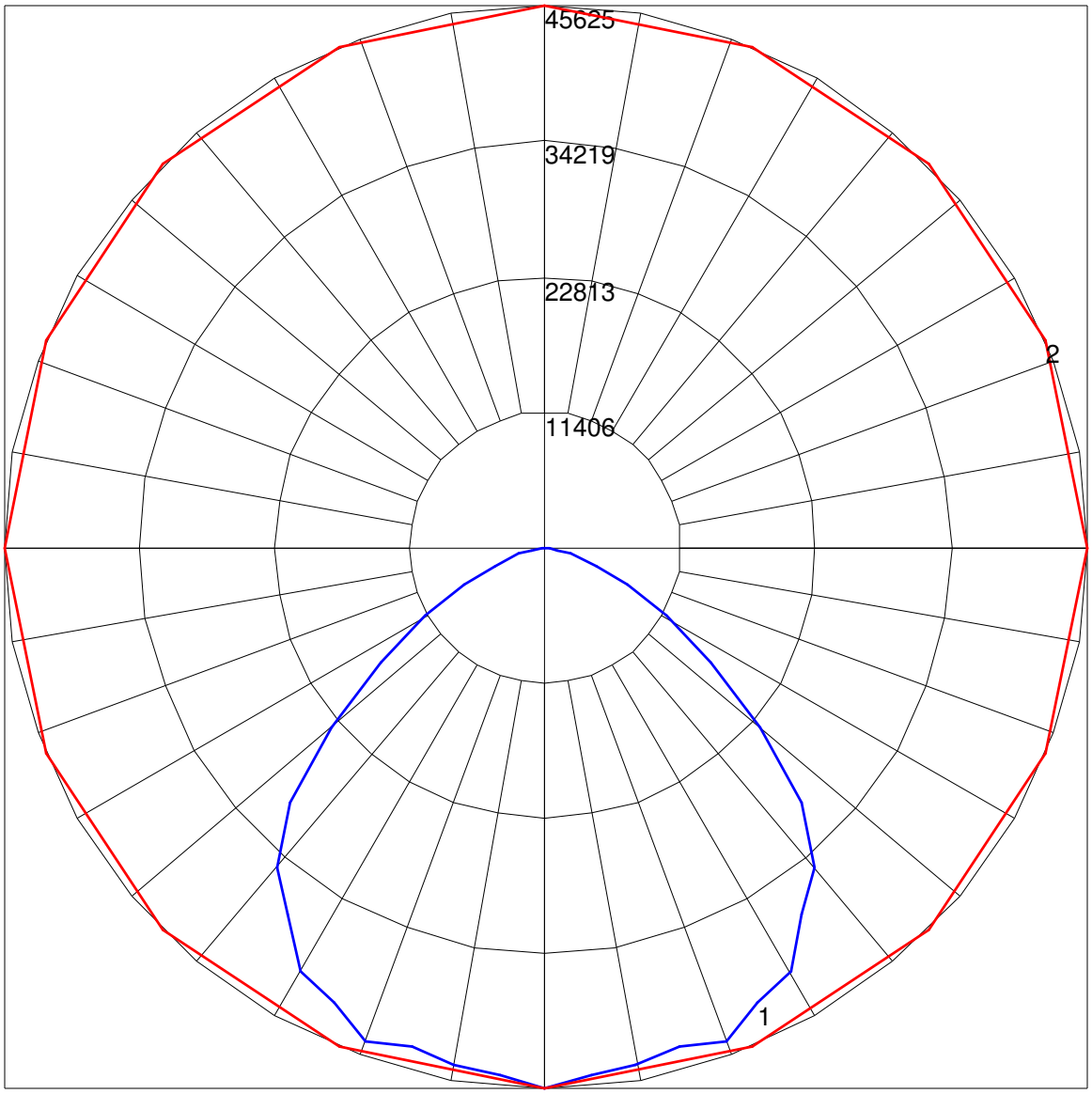
POLAR GRAPH



Maximum Candela = 45625.487 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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