H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GP6-L740-835-W-CL-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 19517.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 16-AUG-2021
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 24X27" LED HIGHBAY
[MORE] w/CLEAR ACRYLIC LENSES OVER LEDS & CENTER DRIVER
[MORE] HOUSING 4 ADVANCE #XI095C275V054DN
[LUMCAT] GP6-L740-835-W-CL-DIM-UNV
[LAMPCAT] D5638D192C2560A8N50
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Indoor, Industrial, Manufacturing, Warehouse, High Bay
[_SEARCH_MOUNTING] Cable, Pendant, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	68677
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	566
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.36
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.88 ft
Luminous Width (90-270)	2.26 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	58151	62028	62063
55	53916	60027	62481
65	44352	51445	47481
75	25452	34416	29840
85	7353	15172	15312

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	23654.219	23654.219	23654.219	23654.219	23654.219
5	23654.219	23716.555	23735.735	23598.276	23615.858
10	23441.636	23607.866	23449.628	23211.471	23112.373
15	22998.889	23147.537	22859.831	22821.470	22818.273
20	22332.370	22380.321	22378.723	22572.125	22452.248
25	21491.630	21398.924	21769.745	21323.801	21553.966
30	20494.249	20398.347	20526.216	21253.473	21550.769
35	19324.245	19399.368	19752.607	20765.971	20351.995
40	17847.355	17880.921	19183.589	18823.957	18446.742
45	16202.636	15827.020	17283.132	17196.820	17292.722
50	14380.499	14529.147	15139.723	16053.988	16050.792
55	12185.943	13327.176	13566.931	14314.966	14121.564
60	9809.172	10667.495	11744.794	10565.199	10341.428
65	7386.049	8220.396	8567.242	7689.739	7907.117
70	4814.278	6160.103	5325.756	5663.011	5931.536
75	2595.746	3458.864	3510.012	3009.723	3043.289
80	1003.774	1467.300	1516.849	1504.062	1564.800
85	252.542	530.658	521.067	497.092	525.862
90	12.787	172.624	134.263	97.500	91.107
95	4.795	51.148	137.459	161.435	158.238
100	14.385	22.377	33.566	67.131	57.541
105	19.180	38.361	38.361	33.566	33.566
110	19.180	38.361	41.558	44.754	44.754
115	22.377	38.361	52.746	49.549	52.746
120	23.975	44.754	57.541	57.541	62.336
125	23.975	46.353	57.541	68.730	73.525
130	23.975	49.549	57.541	68.730	73.525
135	31.967	52.746	62.336	70.328	70.328
140	35.164	57.541	65.533	70.328	70.328
145	47.951	65.533	73.525	75.123	78.320
150	57.541	73.525	84.713	87.910	86.312
155	71.926	79.918	92.705	99.099	100.697
160	89.508	92.705	105.492	113.484	115.082
165	103.894	105.492	113.484	118.279	121.476
170	113.484	110.287	115.082	119.877	121.476
175	115.082	113.484	113.484	113.484	115.082
180	115.082	115.082	115.082	115.082	115.082

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	8735.63	N.A.	12.70
0-30	18697.17	N.A.	27.20
0-40	31111.03	N.A.	45.30
0-60	56004.68	N.A.	81.50
0-80	67583.00	N.A.	98.40
0-90	68270.68	N.A.	99.40
10-90	66021.51	N.A.	96.10
20-40	22375.41	N.A.	32.60
20-50	35372.13	N.A.	51.50
40-70	32921.71	N.A.	47.90
60-80	11578.32	N.A.	16.90
70-80	3550.26	N.A.	5.20
80-90	687.68	N.A.	1.00
90-110	139.84	N.A.	0.20
90-120	184.21	N.A.	0.30
90-130	232.97	N.A.	0.30
90-150	322.36	N.A.	0.50
90-180	406.28	N.A.	0.60
110-180	266.44	N.A.	0.40
0-180	68676.96	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2249.17
10-20	6486.45
20-30	9961.54
30-40	12413.87
40-50	12996.72
50-60	11896.92
60-70	8028.07
70-80	3550.26
80-90	687.68
90-100	100.90
100-110	38.95
110-120	44.37
120-130	48.76
130-140	45.64
140-150	43.75
150-160	41.63
160-170	31.33
170-180	10.95

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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	101	101	101	99
1	109	105	101	97	106	102	99	95	98	95	92	94	92	89	90	88	87	84
2	100	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

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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	26.3	27.9	26.6	28.2	28.5	26.6	28.2	27.0	28.5	28.9
	3H	27.6	29.1	28.0	29.4	29.8	27.9	29.3	28.3	29.7	30.1
	4H	27.9	29.3	28.4	29.7	30.1	28.2	29.6	28.7	30.0	30.4
	6H	28.1	29.3	28.5	29.7	30.1	28.4	29.7	28.8	30.0	30.5
	8H	28.1	29.2	28.5	29.7	30.1	28.4	29.6	28.9	30.0	30.5
	12H	28.0	29.2	28.5	29.6	30.0	28.5	29.6	28.9	30.0	30.5
4H	2H	26.9	28.2	27.3	28.6	29.0	27.2	28.5	27.6	28.9	29.3
	3H	28.4	29.6	28.9	30.0	30.4	28.6	29.7	29.0	30.2	30.6
	4H	28.9	29.9	29.3	30.3	30.8	29.0	30.0	29.5	30.5	30.9
	6H	29.1	29.9	29.5	30.4	30.9	29.3	30.1	29.7	30.6	31.1
	8H	29.1	29.9	29.6	30.4	30.8	29.3	30.1	29.8	30.6	31.1
	12H	29.1	29.8	29.6	30.3	30.8	29.3	30.1	29.8	30.6	31.1
8H	4H	29.0	29.9	29.5	30.3	30.8	29.2	30.0	29.7	30.5	31.0
	6H	29.3	30.0	29.8	30.5	31.0	29.5	30.2	30.0	30.7	31.2
	8H	29.4	30.0	29.9	30.5	31.0	29.6	30.2	30.1	30.7	31.2
	12H	29.4	29.9	29.9	30.4	31.0	29.6	30.2	30.2	30.7	31.3
12H	4H	29.0	29.8	29.5	30.3	30.8	29.2	29.9	29.7	30.4	30.9
	6H	29.3	29.9	29.8	30.4	31.0	29.5	30.1	30.0	30.6	31.1
	8H	29.4	29.9	29.9	30.4	31.0	29.6	30.1	30.1	30.6	31.2

Maximum UGR = 31.3

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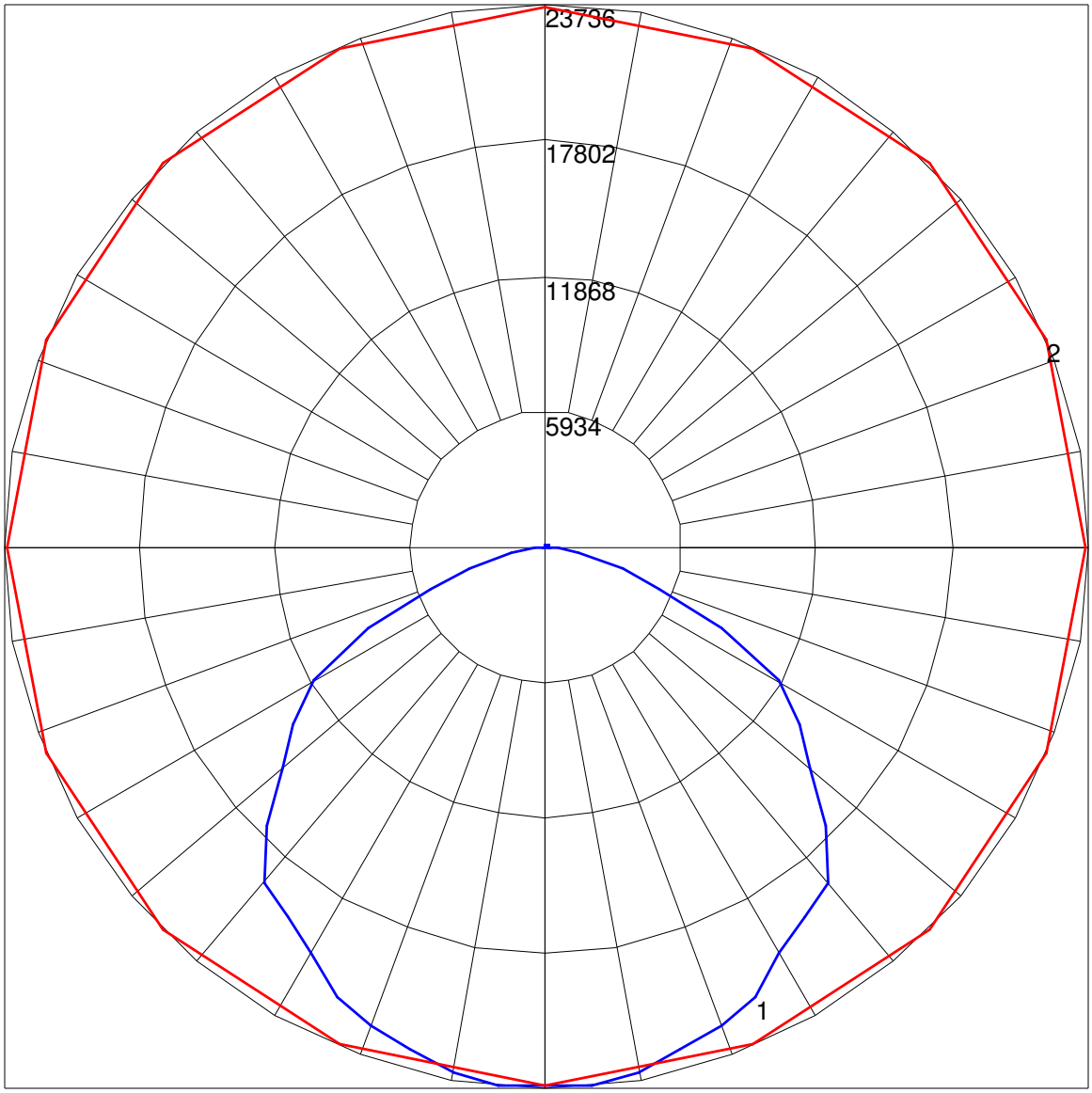
POLAR GRAPH



Maximum Candela = 23735.735 Located At Horizontal Angle = 45, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

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