H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GP6-L740-840-W-DRV-UNV_60C-140F.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 19520.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 06-AUGUST-2021
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 6 ARRAYS 24x27" LED HIGHBAY
[MORE] LUMINAIRE WITH NO DIFFUSERS/OPEN BOTTOM
[LUMCAT] GP6-L740-840-W-DRV-UNV 60C-140F
[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	65948
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	566
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.34
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	55358	57115	57712
55	54155	56300	57513
65	50843	53113	51024
75	40170	38443	40074
85	13396	14665	15157

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	21682.790	21682.790	21682.790	21682.790	21682.790
5	21576.008	21665.883	21693.468	21652.535	21633.848
10	21377.574	21475.456	21530.626	21505.711	21474.566
15	21019.857	21139.096	21214.732	21221.851	21170.240
20	20469.045	20609.640	20770.701	20761.803	20716.421
25	19807.892	19921.791	20138.913	20163.829	20101.540
30	18974.999	19131.611	19317.588	19476.870	19370.979
35	17980.155	18190.158	18342.321	18570.121	18468.679
40	16790.436	17091.203	17207.772	17415.995	17376.842
45	15424.528	15785.804	15913.941	15999.366	16080.342
50	13906.457	14293.538	14382.523	14500.872	14626.339
55	12239.782	12600.168	12724.746	12851.104	12998.818
60	10445.860	10687.897	10957.519	11023.368	11195.997
65	8466.850	8560.284	8845.033	8582.530	8497.105
70	6323.220	6292.965	6230.676	6292.965	6467.374
75	4096.834	4025.647	3920.646	4012.299	4087.046
80	1979.009	1913.161	1857.991	2014.603	1992.357
85	460.049	598.864	503.651	600.644	520.558
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	8040.53	N.A.	12.20
0-30	17288.12	N.A.	26.20
0-40	28754.09	N.A.	43.60
0-60	52315.14	N.A.	79.30
0-80	65120.98	N.A.	98.70
0-90	65948.05	N.A.	100.00
10-90	63886.76	N.A.	96.90
20-40	20713.57	N.A.	31.40
20-50	32942.51	N.A.	50.00
40-70	32077.02	N.A.	48.60
60-80	12805.84	N.A.	19.40
70-80	4289.86	N.A.	6.50
80-90	827.07	N.A.	1.30
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	65948.05	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2061.29
10-20	5979.24
20-30	9247.6
30-40	11465.97
40-50	12228.94
50-60	11332.1
60-70	8515.98
70-80	4289.86
80-90	827.07
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	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	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	28.0	26.7	28.3	28.6	26.6	28.2	26.9	28.5	28.8
	3H	28.0	29.5	28.4	29.9	30.2	28.2	29.7	28.6	30.0	30.4
	4H	28.6	30.0	29.0	30.3	30.7	28.7	30.1	29.1	30.5	30.9
	6H	28.9	30.2	29.3	30.6	31.0	29.0	30.3	29.4	30.7	31.1
	8H	29.0	30.2	29.4	30.6	31.0	29.1	30.3	29.5	30.7	31.1
	12H	29.0	30.2	29.4	30.6	31.0	29.1	30.3	29.6	30.7	31.1
4H	2H	27.0	28.4	27.4	28.8	29.1	27.2	28.6	27.6	28.9	29.3
	3H	28.9	30.1	29.3	30.5	30.9	29.0	30.2	29.4	30.6	31.0
	4H	29.5	30.6	30.0	31.0	31.5	29.6	30.7	30.1	31.1	31.5
	6H	29.9	30.9	30.4	31.3	31.8	30.0	31.0	30.5	31.4	31.9
	8H	30.0	30.9	30.5	31.3	31.8	30.1	31.0	30.6	31.4	31.9
	12H	30.1	30.8	30.6	31.3	31.8	30.2	30.9	30.7	31.4	31.9
8H	4H	29.8	30.6	30.2	31.1	31.5	29.9	30.7	30.3	31.2	31.6
	6H	30.2	31.0	30.7	31.4	31.9	30.3	31.0	30.8	31.5	32.0
	8H	30.4	31.0	30.9	31.5	32.0	30.5	31.1	31.0	31.6	32.1
	12H	30.4	31.0	30.9	31.5	32.0	30.5	31.1	31.0	31.6	32.2
12H	4H	29.8	30.6	30.3	31.0	31.5	29.9	30.6	30.4	31.1	31.6
	6H	30.3	30.9	30.8	31.4	31.9	30.4	31.0	30.9	31.5	32.0
	8H	30.4	31.0	30.9	31.5	32.0	30.5	31.1	31.0	31.6	32.1

Maximum UGR = 32.2

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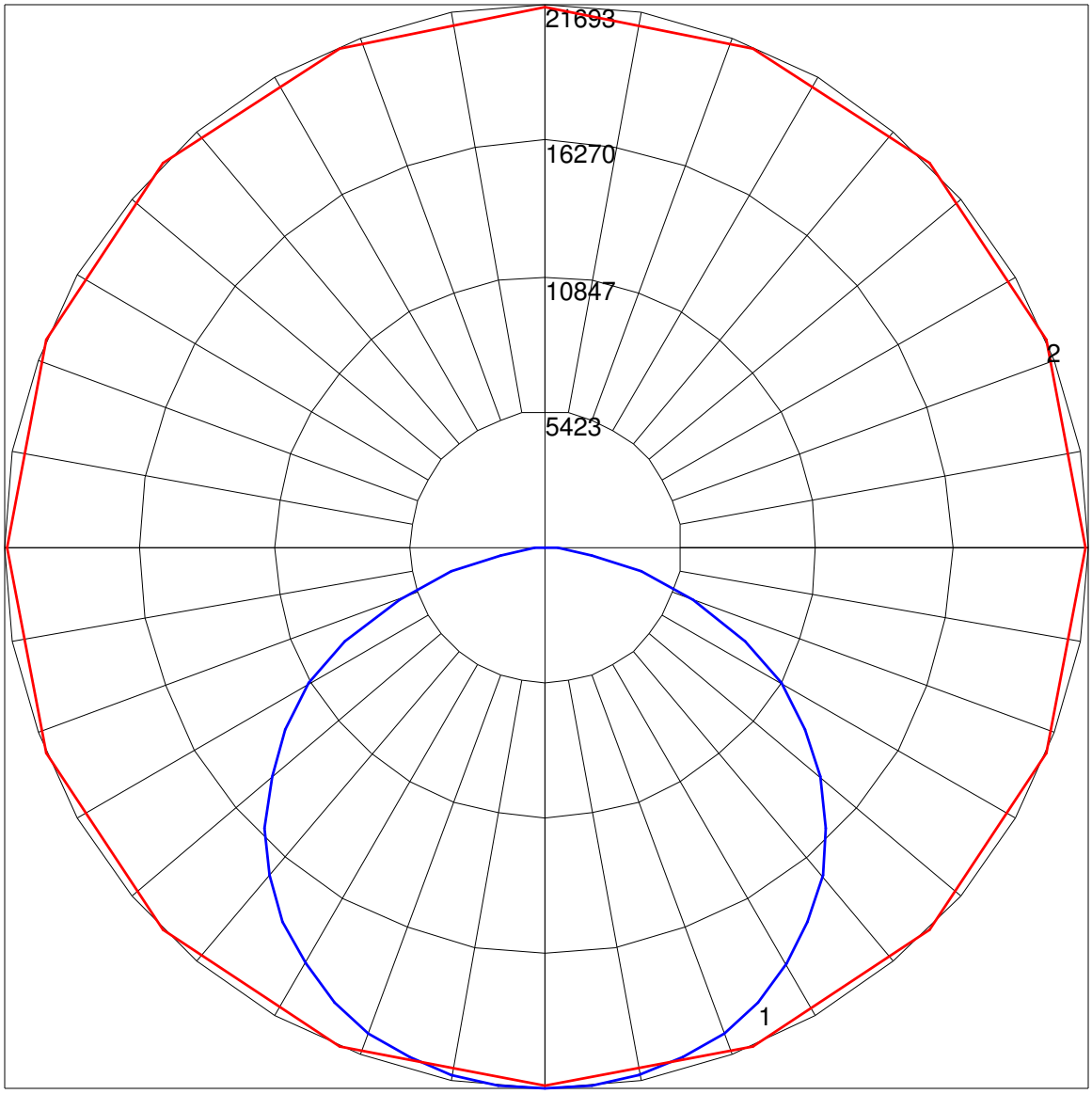
POLAR GRAPH



Maximum Candela = 21693.468 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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