H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GP6-L740-840-W-DIM-UNV_50C-122F.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] 03 AUG 2021
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 24x27" LED HIGHBAY
[MORE] LUMINAIRE WITH NO DIFFUSERS/OPEN BOTTOM
[LUMCAT] GP6-L740-850-W-DIM-UNV 50C-122F
[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	67430
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
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	56602	58398	59009
55	55372	57566	58805
65	51985	54307	52171
75	41073	39307	40975
85	13697	14995	15498

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	22170.046	22170.046	22170.046	22170.046	22170.046
5	22060.866	22152.759	22180.964	22139.112	22120.005
10	21857.972	21958.054	22014.464	21988.988	21957.144
15	21492.216	21614.135	21691.471	21698.750	21645.979
20	20929.026	21072.780	21237.461	21228.363	21181.961
25	20253.016	20369.475	20591.476	20616.951	20553.262
30	19401.406	19561.538	19751.694	19914.555	19806.285
35	18384.206	18598.928	18754.511	18987.430	18883.708
40	17167.752	17475.277	17594.466	17807.368	17767.335
45	15771.149	16140.543	16271.560	16358.905	16441.700
50	14218.963	14614.743	14705.727	14826.736	14955.023
55	12514.835	12883.320	13010.697	13139.894	13290.928
60	10680.600	10928.076	11203.757	11271.085	11447.594
65	8657.118	8752.651	9043.799	8775.397	8688.052
70	6465.316	6434.381	6370.692	6434.381	6612.710
75	4188.899	4116.112	4008.751	4102.464	4178.890
80	2023.482	1956.154	1899.744	2059.875	2037.129
85	470.387	612.322	514.969	614.141	532.256
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	8221.21	N.A.	12.20
0-30	17676.62	N.A.	26.20
0-40	29400.26	N.A.	43.60
0-60	53490.77	N.A.	79.30
0-80	66584.38	N.A.	98.70
0-90	67430.04	N.A.	100.00
10-90	65322.43	N.A.	96.90
20-40	21179.04	N.A.	31.40
20-50	33682.8	N.A.	50.00
40-70	32797.86	N.A.	48.60
60-80	13093.61	N.A.	19.40
70-80	4386.26	N.A.	6.50
80-90	845.66	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	67430.04	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2107.61
10-20	6113.61
20-30	9455.41
30-40	11723.63
40-50	12503.75
50-60	11586.76
60-70	8707.35
70-80	4386.26
80-90	845.66
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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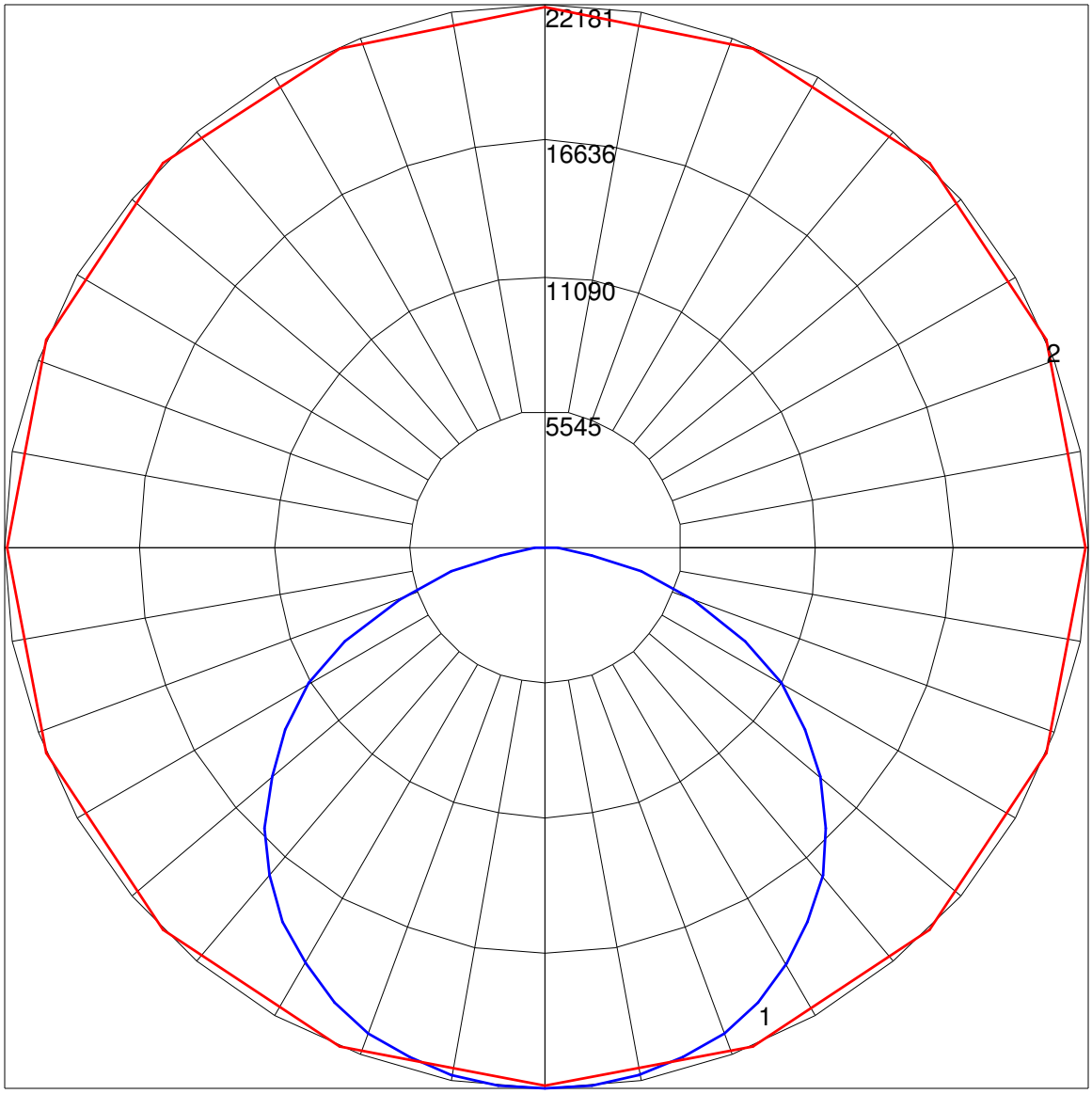
POLAR GRAPH



Maximum Candela = 22180.964 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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