H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GP6-L500-840-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 & CENTER DRIVER
[MORE] HOUSING
[LUMCAT] GP6-L500-840-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	47055
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	402
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	39499	40752	41178
55	38640	40171	41036
65	36277	37897	36407
75	28662	27430	28594
85	9558	10464	10815

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	15471.023	15471.023	15471.023	15471.023	15471.023
5	15394.833	15458.960	15478.642	15449.436	15436.103
10	15253.247	15323.087	15362.452	15344.675	15322.452
15	14998.010	15083.089	15137.057	15142.136	15105.311
20	14604.996	14705.313	14820.233	14813.884	14781.503
25	14133.253	14214.522	14369.442	14387.220	14342.775
30	13538.971	13650.716	13783.414	13897.064	13821.509
35	12829.133	12978.974	13087.545	13250.083	13177.703
40	11980.249	12194.851	12278.025	12426.596	12398.660
45	11005.652	11263.428	11354.856	11415.808	11473.585
50	9922.483	10198.672	10262.164	10346.608	10436.131
55	8733.284	8990.425	9079.313	9169.472	9274.868
60	7453.291	7625.988	7818.368	7865.352	7988.526
65	6041.235	6107.902	6311.075	6123.775	6062.823
70	4511.720	4490.133	4445.689	4490.133	4614.577
75	2923.158	2872.365	2797.444	2862.841	2916.174
80	1412.055	1365.072	1325.707	1437.452	1421.579
85	328.252	427.299	359.363	428.569	371.426
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	5737.05	N.A.	12.20
0-30	12335.36	N.A.	26.20
0-40	20516.51	N.A.	43.60
0-60	37327.7	N.A.	79.30
0-80	46464.88	N.A.	98.70
0-90	47055.00	N.A.	100.00
10-90	45584.24	N.A.	96.90
20-40	14779.47	N.A.	31.40
20-50	23505.02	N.A.	50.00
40-70	22887.48	N.A.	48.60
60-80	9137.17	N.A.	19.40
70-80	3060.88	N.A.	6.50
80-90	590.13	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	47055.00	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1470.76
10-20	4266.28
20-30	6598.31
30-40	8181.16
40-50	8725.55
50-60	8085.64
60-70	6076.29
70-80	3060.88
80-90	590.13
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	25.1	26.8	25.5	27.1	27.4	25.4	27.0	25.7	27.3	27.6
	3H	26.8	28.3	27.2	28.7	29.0	27.0	28.5	27.4	28.8	29.2
	4H	27.4	28.8	27.8	29.1	29.5	27.5	28.9	27.9	29.3	29.7
	6H	27.7	29.0	28.1	29.4	29.8	27.8	29.1	28.2	29.5	29.9
	8H	27.8	29.0	28.2	29.4	29.8	27.9	29.1	28.3	29.5	29.9
	12H	27.8	29.0	28.2	29.4	29.8	27.9	29.1	28.4	29.5	29.9
4H	2H	25.8	27.2	26.2	27.6	27.9	26.0	27.4	26.4	27.7	28.1
	3H	27.7	28.9	28.1	29.3	29.7	27.8	29.0	28.2	29.4	29.8
	4H	28.3	29.4	28.8	29.8	30.3	28.4	29.5	28.9	29.9	30.3
	6H	28.7	29.7	29.2	30.1	30.6	28.8	29.8	29.3	30.2	30.7
	8H	28.8	29.7	29.3	30.1	30.6	28.9	29.8	29.4	30.2	30.7
	12H	28.9	29.6	29.4	30.1	30.6	29.0	29.7	29.5	30.2	30.7
8H	4H	28.6	29.4	29.0	29.9	30.3	28.7	29.5	29.1	30.0	30.4
	6H	29.0	29.8	29.5	30.2	30.7	29.1	29.8	29.6	30.3	30.8
	8H	29.2	29.8	29.7	30.3	30.8	29.3	29.9	29.8	30.4	30.9
	12H	29.2	29.8	29.7	30.3	30.8	29.3	29.9	29.8	30.4	31.0
12H	4H	28.6	29.4	29.1	29.8	30.3	28.7	29.4	29.2	29.9	30.4
	6H	29.1	29.7	29.6	30.2	30.7	29.2	29.8	29.7	30.3	30.8
	8H	29.2	29.8	29.7	30.3	30.8	29.3	29.9	29.8	30.4	30.9

Maximum UGR = 31.0

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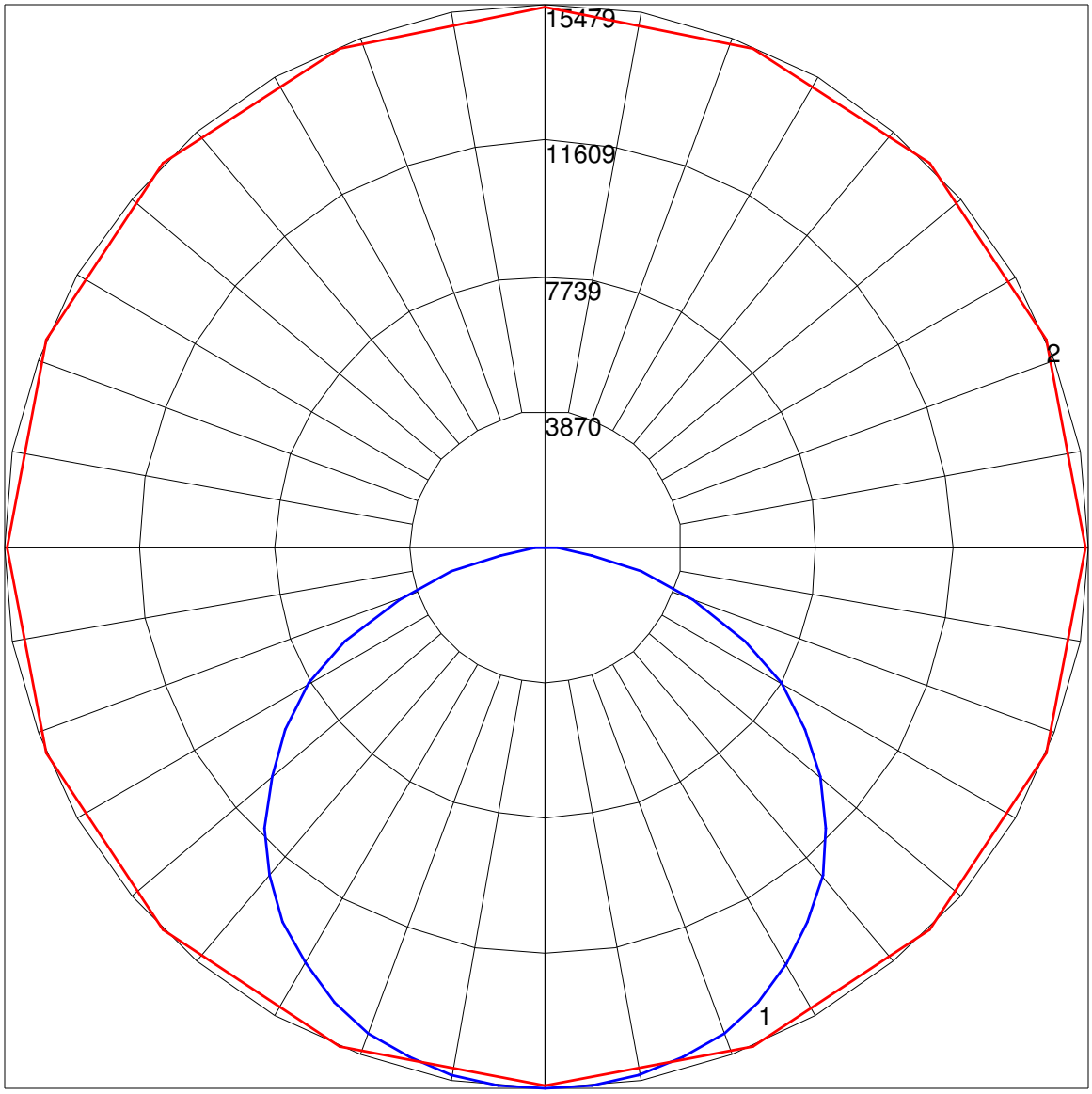
POLAR GRAPH



Maximum Candela = 15478.642 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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