H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GP6-L600-840-N-DRV-UNV_60C-140F.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 19519.1
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 09 AUG 2021
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 4-22" LED ARRAYS 24X19" HIGHBAY
[MORE] LUMINAIRE WITH SPEC NARROW DOWNLIGHT REFLS
[LUMCAT] GP6-L600-840-N-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	52705
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	479
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	0.92
Spacing Criterion (Diagonal)	1.08
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	81634	34589	417
55	75416	774	0
65	65757	0	0
75	47746	0	0
85	12744	0	0

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	35037.632	35037.632	35037.632	35037.632	35037.632
5	34658.635	35095.093	35197.789	34890.924	34614.623
10	34322.429	34730.767	34599.952	34264.968	33812.617
15	33593.777	33928.761	33200.109	32281.959	31566.756
20	32500.799	32733.088	30838.104	28476.099	27834.250
25	31100.957	31086.286	27339.109	23533.249	23066.227
30	29438.262	28985.911	22935.412	18881.370	18386.229
35	27513.937	26055.411	18721.214	14609.711	13005.699
40	25209.392	22308.234	14887.234	7509.025	3761.848
45	22745.914	18356.888	9637.519	1122.319	116.144
50	20004.912	14595.040	3062.538	0.000	0.000
55	17045.070	10965.230	174.828	0.000	0.000
60	14026.545	6881.846	0.000	0.000	0.000
65	10950.559	2478.149	0.000	0.000	0.000
70	7801.219	116.144	0.000	0.000	0.000
75	4869.496	44.013	0.000	0.000	0.000
80	2231.190	0.000	0.000	0.000	0.000
85	437.680	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	12554.82	N.A.	23.80
0-30	25064.88	N.A.	47.60
0-40	37274.8	N.A.	70.70
0-60	49848.78	N.A.	94.60
0-80	52599.27	N.A.	99.80
0-90	52704.89	N.A.	100.00
10-90	49386.54	N.A.	93.70
20-40	24719.98	N.A.	46.90
20-50	32782.39	N.A.	62.20
40-70	14659.57	N.A.	27.80
60-80	2750.48	N.A.	5.20
70-80	664.89	N.A.	1.30
80-90	105.63	N.A.	0.20
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	52704.89	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	3318.36
10-20	9236.46
20-30	12510.06
30-40	12209.92
40-50	8062.42
50-60	4511.57
60-70	2085.59
70-80	664.89
80-90	105.63
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	103	109	106	103	101	102	100	98	98	97	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	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72
4	91	82	75	69	89	80	74	69	78	73	68	76	71	67	74	70	66	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	51	60	54	50	59	54	50	48
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	41
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38

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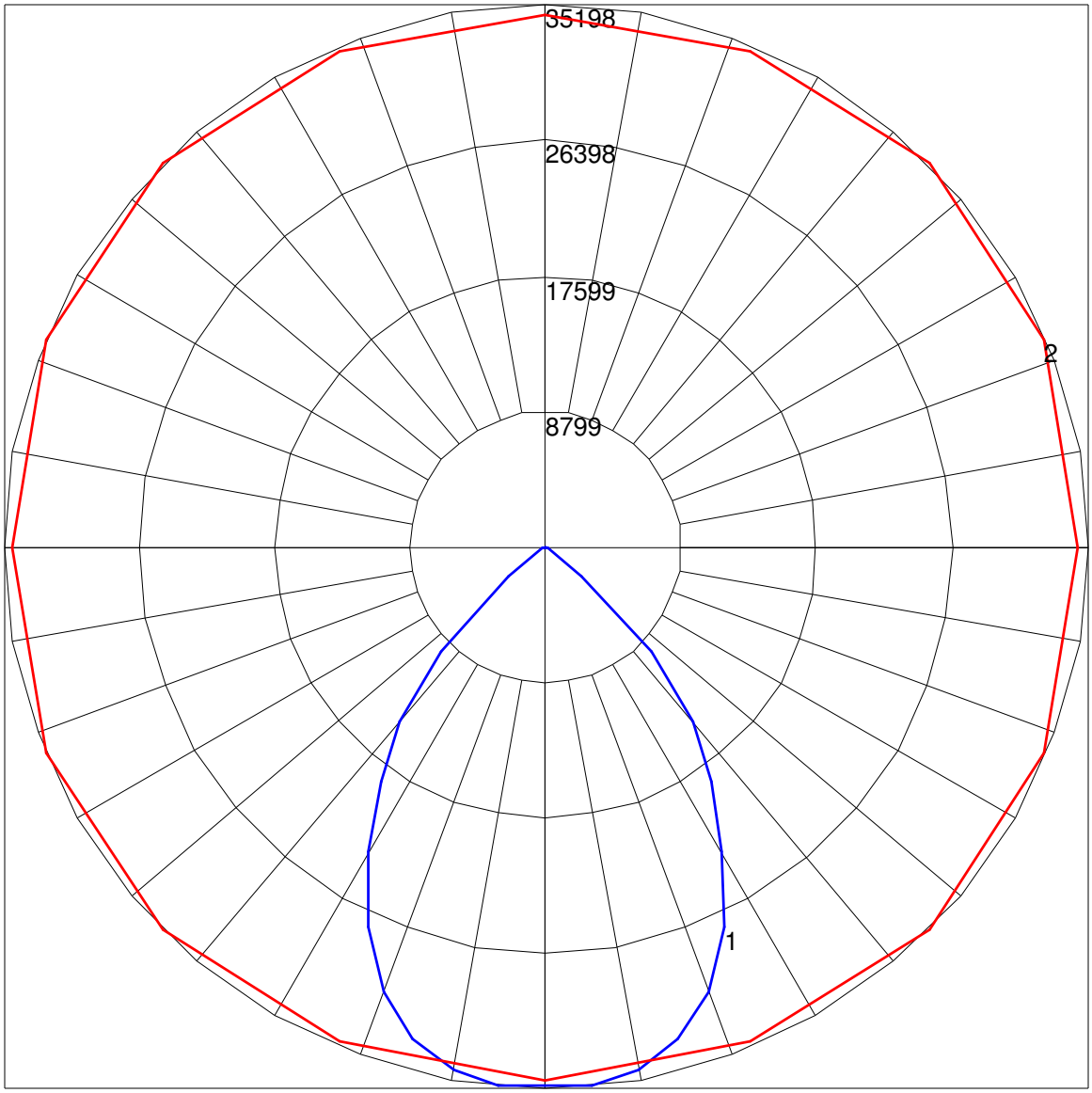
POLAR GRAPH



Maximum Candela = 35197.789 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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