H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GP6-L740-840-N-DIM-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] 06 AUGUST 2021
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 6 22"ARRAYS 24X27" LED HIGHBAY
[MORE] LUMINAIRE WITH SPEC NARROW DOWNLIGHT REFL
[LUMCAT] GP6-L740-840-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	61991
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	566
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	96017	40683	490
55	88703	910	0
65	77342	0	0
75	56159	0	0
85	14990	0	0

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	41210.783	41210.783	41210.783	41210.783	41210.783
5	40765.013	41278.368	41399.158	41038.227	40713.246
10	40369.571	40849.853	40695.990	40301.986	39769.937
15	39512.541	39906.545	39049.514	37969.599	37128.386
20	38226.996	38500.210	36271.356	33493.198	32738.264
25	36580.520	36563.264	32155.886	27679.485	27130.181
30	34624.881	34092.832	26976.318	22208.009	21625.631
35	32361.516	30646.018	22019.635	17183.742	15297.125
40	29650.942	26238.639	17510.161	8832.012	4424.634
45	26753.433	21591.120	11335.518	1320.056	136.607
50	23529.504	17166.486	3602.115	0.000	0.000
55	20048.178	12897.153	205.630	0.000	0.000
60	16497.830	8094.333	0.000	0.000	0.000
65	12879.898	2914.765	0.000	0.000	0.000
70	9175.687	136.607	0.000	0.000	0.000
75	5727.435	51.767	0.000	0.000	0.000
80	2624.295	0.000	0.000	0.000	0.000
85	514.793	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	14766.81	N.A.	23.80
0-30	29480.97	N.A.	47.60
0-40	43842.11	N.A.	70.70
0-60	58631.46	N.A.	94.60
0-80	61866.54	N.A.	99.80
0-90	61990.78	N.A.	100.00
10-90	58087.77	N.A.	93.70
20-40	29075.3	N.A.	46.90
20-50	38558.2	N.A.	62.20
40-70	17242.39	N.A.	27.80
60-80	3235.08	N.A.	5.20
70-80	782.04	N.A.	1.30
80-90	124.24	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	61990.78	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	3903.01
10-20	10863.8
20-30	14714.16
30-40	14361.14
40-50	9482.9
50-60	5306.45
60-70	2453.04
70-80	782.04
80-90	124.24
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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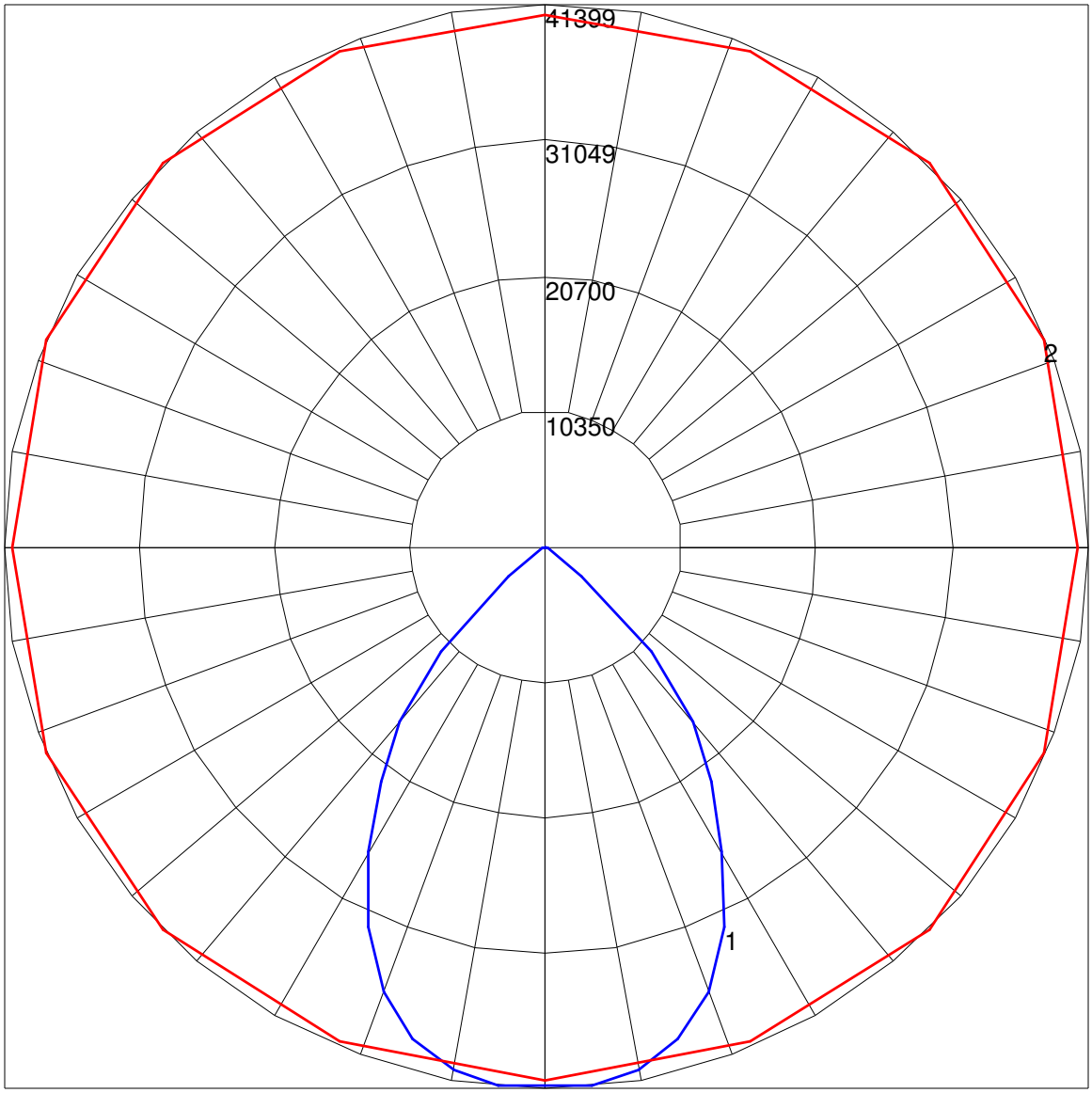
POLAR GRAPH



Maximum Candela = 41399.158 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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