H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GP6-L740-840-W-DIM-UNV_55C-131F.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-L740-840-W-DIM-UNV 55C-131F
[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	66689
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
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	55980	57756	58360
55	54763	56933	58159
65	51414	53710	51598
75	40622	38875	40525
85	13546	14830	15328

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	21926.420	21926.420	21926.420	21926.420	21926.420
5	21818.439	21909.323	21937.218	21895.826	21876.929
10	21617.775	21716.757	21772.547	21747.352	21715.857
15	21256.039	21376.617	21453.104	21460.303	21408.112
20	20699.037	20841.212	21004.083	20995.085	20949.193
25	20030.456	20145.635	20365.196	20390.392	20327.403
30	19188.205	19346.577	19534.643	19695.715	19588.634
35	18182.183	18394.545	18548.418	18778.777	18676.195
40	16979.096	17283.242	17401.121	17611.684	17572.091
45	15597.840	15963.175	16092.752	16179.137	16261.023
50	14062.712	14454.142	14544.126	14663.805	14790.683
55	12377.310	12741.745	12867.723	12995.500	13144.874
60	10563.231	10807.988	11080.639	11147.227	11321.797
65	8561.985	8656.468	8944.417	8678.964	8592.580
70	6394.269	6363.674	6300.685	6363.674	6540.043
75	4142.867	4070.880	3964.698	4057.382	4132.969
80	2001.246	1934.658	1878.868	2037.240	2014.743
85	465.218	605.593	509.310	607.393	526.407
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	8130.87	N.A.	12.20
0-30	17482.38	N.A.	26.20
0-40	29077.18	N.A.	43.60
0-60	52902.96	N.A.	79.30
0-80	65852.68	N.A.	98.70
0-90	66689.05	N.A.	100.00
10-90	64604.6	N.A.	96.90
20-40	20946.31	N.A.	31.40
20-50	33312.66	N.A.	50.00
40-70	32437.44	N.A.	48.60
60-80	12949.72	N.A.	19.40
70-80	4338.06	N.A.	6.50
80-90	836.37	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	66689.05	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2084.45
10-20	6046.42
20-30	9351.5
30-40	11594.8
40-50	12366.35
50-60	11459.43
60-70	8611.66
70-80	4338.06
80-90	836.37
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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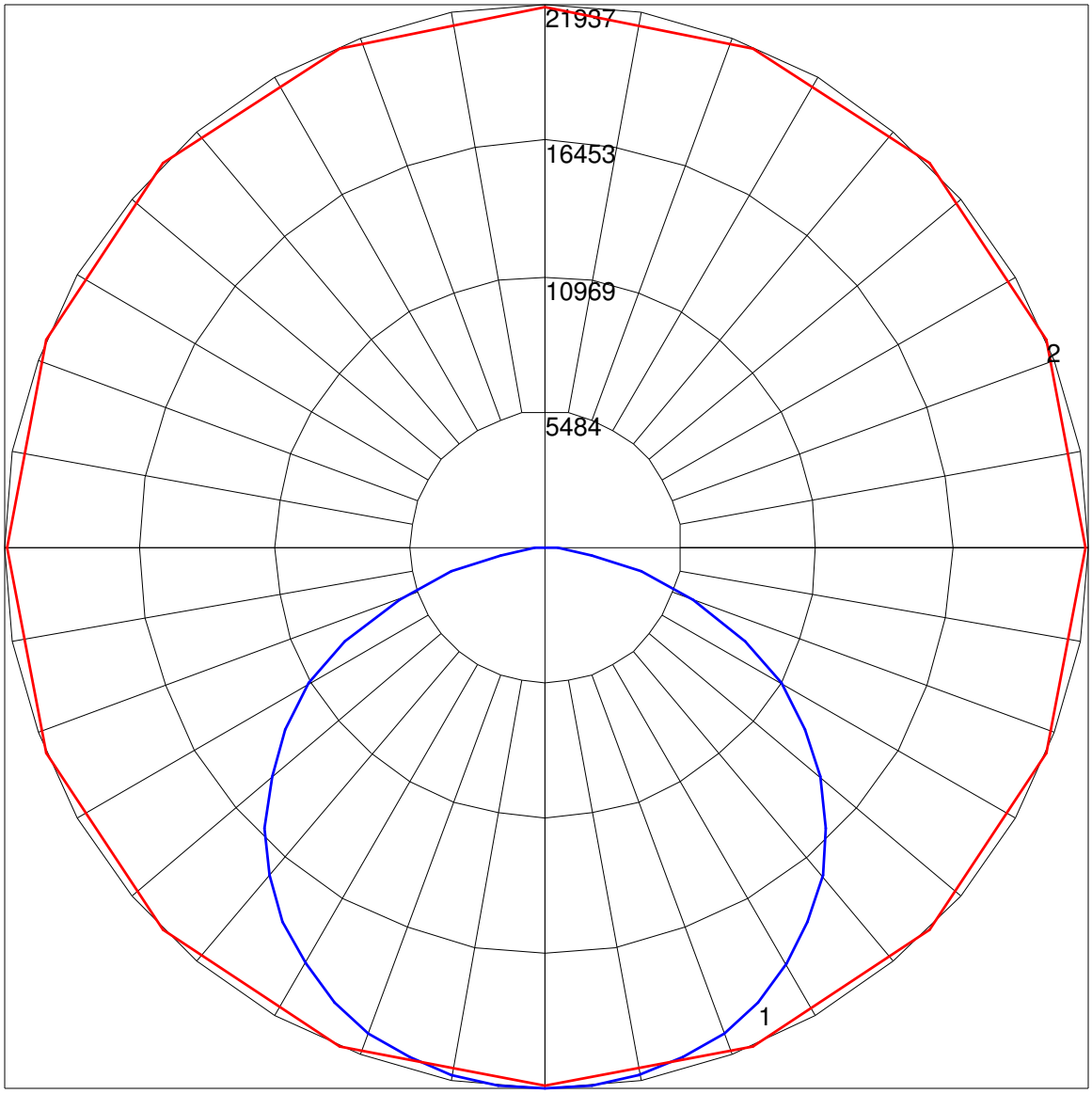
POLAR GRAPH



Maximum Candela = 21937.218 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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