H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GP6-L740-840-W-DIM-UNV_40C-104F.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 40C-104F
[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	70394
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
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	59090	60965	61602
55	57806	60096	61390
65	54270	56694	54464
75	42879	41034	42776
85	14299	15654	16179

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GP6-L740-840-W-DIM-UNV_40C-104F.IES

CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	23144.573	23144.573	23144.573	23144.573	23144.573
5	23030.593	23126.526	23155.971	23112.279	23092.332
10	22818.780	22923.262	22982.151	22955.556	22922.312
15	22436.948	22564.225	22644.961	22652.560	22597.469
20	21849.001	21999.075	22170.994	22161.496	22113.055
25	21143.275	21264.854	21496.613	21523.208	21456.720
30	20254.233	20421.403	20619.918	20789.938	20676.908
35	19192.319	19416.480	19578.901	19822.058	19713.777
40	17922.393	18243.436	18367.864	18590.125	18548.333
45	16464.400	16850.032	16986.808	17077.992	17164.426
50	14843.985	15257.162	15352.146	15478.473	15612.400
55	13064.948	13449.631	13582.607	13717.484	13875.156
60	11150.086	11408.440	11696.240	11766.527	11950.795
65	9037.658	9137.390	9441.337	9161.136	9069.952
70	6749.511	6717.217	6650.728	6717.217	6903.384
75	4373.030	4297.043	4184.963	4282.796	4362.581
80	2112.428	2042.140	1983.251	2150.421	2126.675
85	491.063	639.237	537.605	641.137	555.652
90	0.000	0.000	0.000	0.000	0.000

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GP6-L740-840-W-DIM-UNV_40C-104F.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	8582.59	N.A.	12.20
0-30	18453.63	N.A.	26.20
0-40	30692.6	N.A.	43.60
0-60	55842.06	N.A.	79.30
0-80	69511.22	N.A.	98.70
0-90	70394.05	N.A.	100.00
10-90	68193.8	N.A.	96.90
20-40	22110.01	N.A.	31.40
20-50	35163.39	N.A.	50.00
40-70	34239.55	N.A.	48.60
60-80	13669.16	N.A.	19.40
70-80	4579.07	N.A.	6.50
80-90	882.83	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	70394.05	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2200.25
10-20	6382.34
20-30	9871.04
30-40	12238.97
40-50	13053.38
50-60	12096.08
60-70	9090.1
70-80	4579.07
80-90	882.83
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

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GP6-L740-840-W-DIM-UNV_40C-104F.IES

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

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GP6-L740-840-W-DIM-UNV_40C-104F.IES

UGR TABLE - CORRECTED

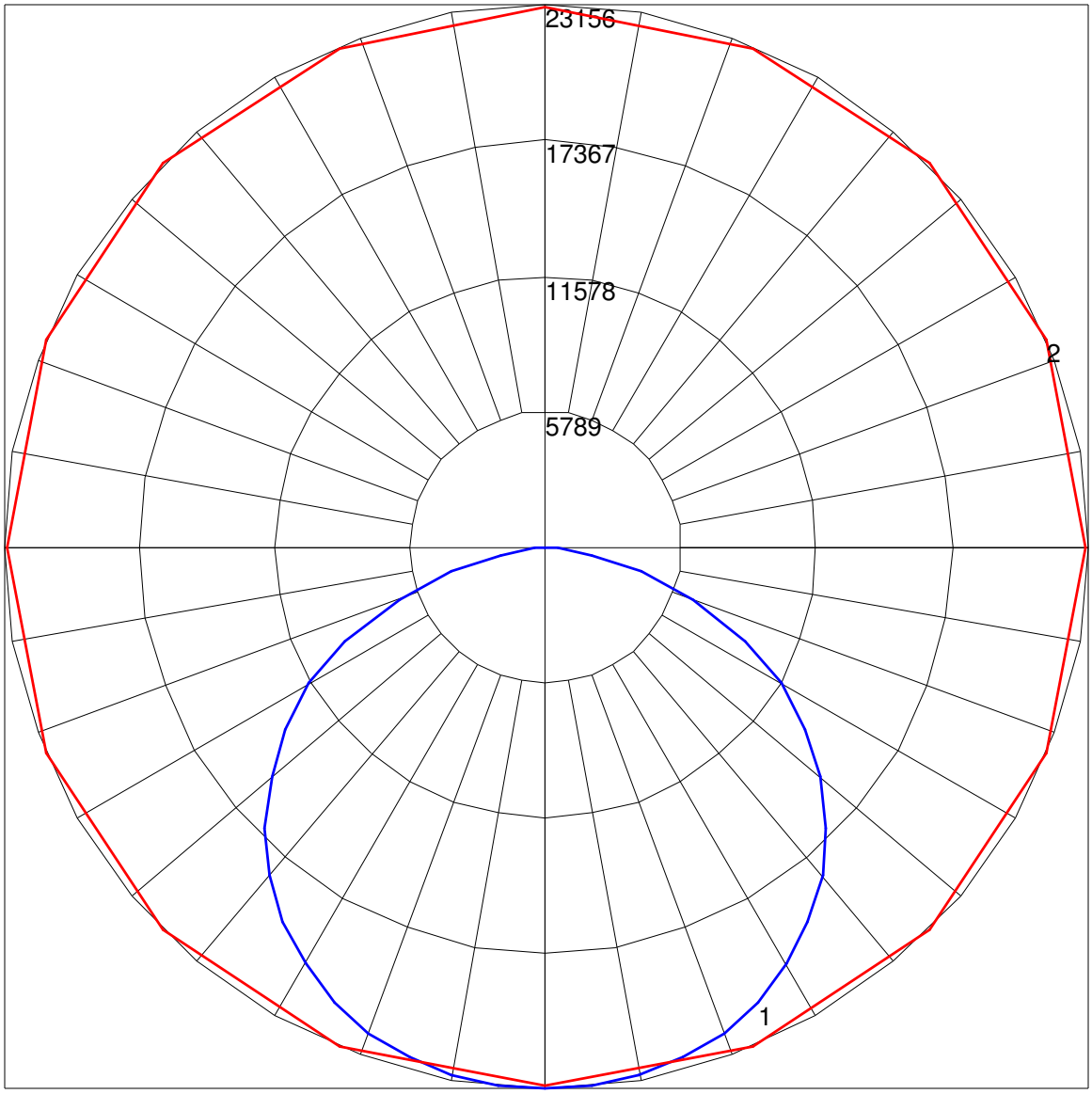
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	26.5	28.2	26.9	28.5	28.8	26.8	28.4	27.1	28.7	29.0
	3H	28.2	29.7	28.6	30.1	30.4	28.4	29.9	28.8	30.2	30.6
	4H	28.8	30.2	29.2	30.5	30.9	28.9	30.3	29.3	30.7	31.1
	6H	29.1	30.4	29.5	30.8	31.2	29.2	30.5	29.6	30.9	31.3
	8H	29.2	30.4	29.6	30.8	31.2	29.3	30.5	29.7	30.9	31.3
	12H	29.2	30.4	29.6	30.8	31.2	29.3	30.5	29.8	30.9	31.3
4H	2H	27.2	28.6	27.6	29.0	29.3	27.4	28.8	27.8	29.1	29.5
	3H	29.1	30.3	29.5	30.7	31.1	29.2	30.4	29.6	30.8	31.2
	4H	29.7	30.8	30.2	31.2	31.7	29.8	30.9	30.3	31.3	31.7
	6H	30.1	31.1	30.6	31.5	32.0	30.2	31.2	30.7	31.6	32.1
	8H	30.2	31.1	30.7	31.5	32.0	30.3	31.2	30.8	31.6	32.1
	12H	30.3	31.0	30.8	31.5	32.0	30.4	31.1	30.9	31.6	32.1
8H	4H	30.0	30.8	30.4	31.3	31.7	30.1	30.9	30.5	31.4	31.8
	6H	30.4	31.2	30.9	31.6	32.1	30.5	31.2	31.0	31.7	32.2
	8H	30.6	31.2	31.1	31.7	32.2	30.7	31.3	31.2	31.8	32.3
	12H	30.6	31.2	31.1	31.7	32.2	30.7	31.3	31.2	31.8	32.4
12H	4H	30.0	30.8	30.5	31.2	31.7	30.1	30.8	30.6	31.3	31.8
	6H	30.5	31.1	31.0	31.6	32.1	30.6	31.2	31.1	31.7	32.2
	8H	30.6	31.2	31.1	31.7	32.2	30.7	31.3	31.2	31.8	32.3

Maximum UGR = 32.4

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GP6-L740-840-W-DIM-UNV_40C-104F.IES

POLAR GRAPH



Maximum Candela = 23155.971 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.)

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.