IES INDOOR REPORT
PHOTOMETRIC FILENAME : GP6-L550-840-W-DIM-UNV_.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-NOV-2019
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 6-192 LED 22"ARRAYS EACH ON ALUM HEATSINK 24x27"HIGHBAY
[MORE] LUMINAIRE W/ NO DIFFUSER/OPEN BOTTOM & CENTER DRIVER HOUSING
[LUMCAT] GP6-L550-840-W-DIM-UNV
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Indoor, Industrial, Manufacturing, Warehouse, High Bay
[_SEARCH_MOUNTING] Cable, Pendant, Suspended
[_SEARCH_CERTIFICATION] DLC

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	57596
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	438
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	48347	49881	50403
55	47296	49170	50229
65	44404	46387	44562
75	35083	33574	34999
85	11699	12808	13238

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	18936.768	18936.768	18936.768	18936.768	18936.768
5	18843.511	18922.003	18946.094	18910.345	18894.025
10	18670.207	18755.693	18803.876	18782.116	18754.916
15	18357.793	18461.931	18527.989	18534.206	18489.131
20	17876.738	17999.528	18140.192	18132.420	18092.786
25	17299.317	17398.792	17588.416	17610.177	17555.776
30	16571.907	16708.685	16871.109	17010.218	16917.738
35	15703.055	15886.462	16019.354	16218.304	16129.709
40	14664.008	14926.684	15028.490	15210.343	15176.149
45	13471.086	13786.608	13898.517	13973.123	14043.844
50	12145.271	12483.330	12561.045	12664.406	12773.984
55	10689.672	11004.417	11113.218	11223.573	11352.580
60	9122.942	9334.326	9569.802	9627.311	9778.078
65	7394.564	7476.165	7724.852	7495.594	7420.987
70	5522.415	5495.992	5441.591	5495.992	5648.313
75	3577.990	3515.818	3424.115	3504.161	3569.441
80	1728.377	1670.868	1622.685	1759.463	1740.035
85	401.786	523.021	439.866	524.575	454.632
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	7022.23	N.A.	12.20
0-30	15098.67	N.A.	26.20
0-40	25112.53	N.A.	43.60
0-60	45689.68	N.A.	79.30
0-80	56873.71	N.A.	98.70
0-90	57596.04	N.A.	100.00
10-90	55795.81	N.A.	96.90
20-40	18090.29	N.A.	31.40
20-50	28770.5	N.A.	50.00
40-70	28014.62	N.A.	48.60
60-80	11184.04	N.A.	19.40
70-80	3746.57	N.A.	6.50
80-90	722.33	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	57596.04	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1800.23
10-20	5222.00
20-30	8076.43
30-40	10013.86
40-50	10680.21
50-60	9896.95
60-70	7437.47
70-80	3746.57
80-90	722.33
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	93	93	93	93	90	90	90	90	86	86	86	83	83	83	79	79	79	78
1	85	81	78	75	83	79	76	74	76	73	71	73	71	69	70	68	67	65
2	77	70	65	61	75	69	64	60	66	62	59	64	60	57	61	58	56	54
3	70	62	55	50	68	60	55	50	58	53	49	56	52	48	54	50	47	45
4	64	55	48	42	62	53	47	42	52	46	41	50	45	41	48	44	40	39
5	59	49	42	36	57	48	41	36	46	40	36	44	39	35	43	39	35	33
6	54	44	37	32	53	43	36	31	41	36	31	40	35	31	39	34	31	29
7	50	39	33	28	49	39	32	28	38	32	27	36	31	27	35	31	27	25
8	47	36	29	25	45	35	29	25	34	29	24	33	28	24	32	28	24	23
9	43	33	26	22	42	32	26	22	32	26	22	31	26	22	30	25	22	20
10	41	30	24	20	40	30	24	20	29	24	20	28	23	20	28	23	20	18

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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	26.7	28.4	27.1	28.7	29.0	27.0	28.6	27.3	28.9	29.2
	3H	28.4	29.9	28.8	30.3	30.6	28.6	30.1	29.0	30.4	30.8
	4H	29.0	30.4	29.4	30.7	31.1	29.1	30.5	29.5	30.9	31.3
	6H	29.3	30.6	29.7	31.0	31.4	29.4	30.7	29.8	31.1	31.5
	8H	29.4	30.6	29.8	31.0	31.4	29.5	30.7	29.9	31.1	31.5
	12H	29.4	30.6	29.8	31.0	31.4	29.5	30.7	30.0	31.1	31.5
4H	2H	27.4	28.8	27.8	29.2	29.5	27.6	29.0	28.0	29.3	29.7
	3H	29.3	30.5	29.7	30.9	31.3	29.4	30.6	29.8	31.0	31.4
	4H	29.9	31.0	30.4	31.4	31.9	30.0	31.1	30.5	31.5	31.9
	6H	30.3	31.3	30.8	31.7	32.2	30.4	31.4	30.9	31.8	32.3
	8H	30.4	31.3	30.9	31.7	32.2	30.5	31.4	31.0	31.8	32.3
	12H	30.5	31.2	31.0	31.7	32.2	30.6	31.3	31.1	31.8	32.3
8H	4H	30.2	31.0	30.6	31.5	31.9	30.3	31.1	30.7	31.6	32.0
	6H	30.6	31.4	31.1	31.8	32.3	30.7	31.4	31.2	31.9	32.4
	8H	30.8	31.4	31.3	31.9	32.4	30.9	31.5	31.4	32.0	32.5
	12H	30.8	31.4	31.3	31.9	32.4	30.9	31.5	31.4	32.0	32.6
12H	4H	30.2	31.0	30.7	31.4	31.9	30.3	31.0	30.8	31.5	32.0
	6H	30.7	31.3	31.2	31.8	32.3	30.8	31.4	31.3	31.9	32.4
	8H	30.8	31.4	31.3	31.9	32.4	30.9	31.5	31.4	32.0	32.5

Maximum UGR = 32.6

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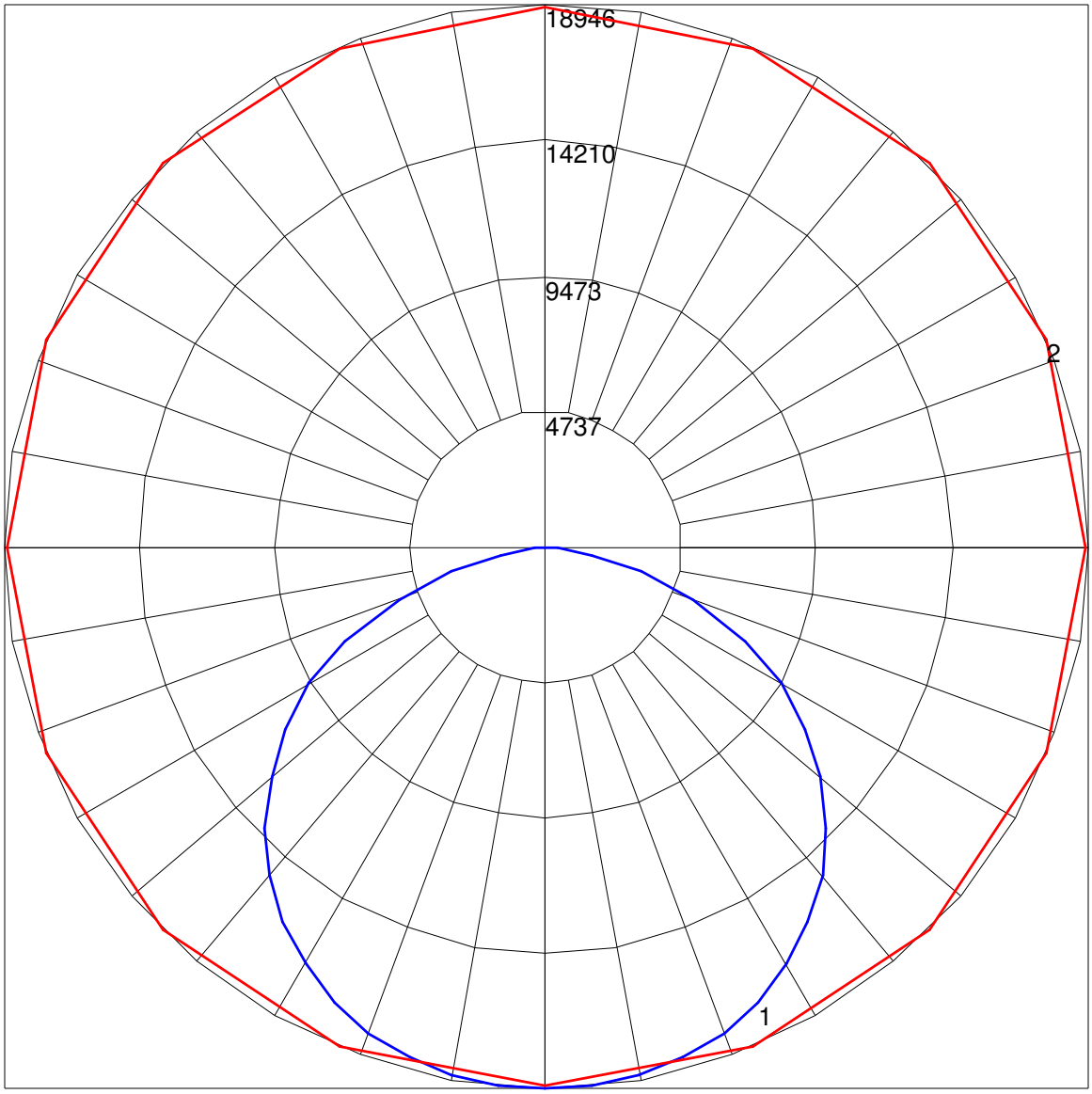
POLAR GRAPH



Maximum Candela = 18946.094 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.)