IES INDOOR REPORT
PHOTOMETRIC FILENAME : GP6-L500-840-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-L500-840-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	52871
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	402
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	44381	45789	46268
55	43416	45136	46109
65	40761	42581	40906
75	32205	30820	32128
85	10739	11757	12152

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	17383.252	17383.252	17383.252	17383.252	17383.252
5	17297.645	17369.698	17391.813	17358.997	17344.016
10	17138.559	17217.032	17261.262	17241.287	17216.318
15	16851.774	16947.369	17008.008	17013.715	16972.338
20	16410.184	16522.900	16652.024	16644.890	16608.507
25	15880.133	15971.447	16145.515	16165.490	16115.553
30	15212.397	15337.954	15487.053	15614.751	15529.857
35	14414.823	14583.184	14705.174	14887.803	14806.476
40	13461.017	13702.143	13795.598	13962.532	13931.143
45	12365.958	12655.596	12758.324	12826.810	12891.729
50	11148.909	11459.235	11530.574	11625.456	11726.044
55	9812.724	10101.648	10201.523	10302.825	10421.248
60	8374.523	8568.566	8784.724	8837.515	8975.913
65	6787.936	6862.843	7091.129	6880.678	6812.192
70	5069.372	5045.117	4995.179	5045.117	5184.942
75	3284.462	3227.391	3143.210	3216.690	3276.615
80	1586.587	1533.795	1489.565	1615.122	1597.287
85	368.824	480.114	403.781	481.540	417.335
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	6446.15	N.A.	12.20
0-30	13860.02	N.A.	26.20
0-40	23052.37	N.A.	43.60
0-60	41941.43	N.A.	79.30
0-80	52207.96	N.A.	98.70
0-90	52871.04	N.A.	100.00
10-90	51218.49	N.A.	96.90
20-40	16606.22	N.A.	31.40
20-50	26410.25	N.A.	50.00
40-70	25716.38	N.A.	48.60
60-80	10266.53	N.A.	19.40
70-80	3439.21	N.A.	6.50
80-90	663.07	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	52871.04	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1652.55
10-20	4793.6
20-30	7413.87
30-40	9192.35
40-50	9804.03
50-60	9085.03
60-70	6827.32
70-80	3439.21
80-90	663.07
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	85	85	85	85	83	83	83	83	79	79	79	76	76	76	73	73	73	71
1	78	74	71	69	76	73	70	67	70	67	65	67	65	63	64	63	61	60
2	71	65	60	56	69	63	59	55	61	57	54	58	55	53	56	54	51	50
3	64	57	51	46	62	56	50	46	53	49	45	51	47	44	50	46	43	42
4	59	50	44	39	57	49	43	39	47	42	38	46	41	38	44	40	37	35
5	54	45	38	33	52	44	38	33	42	37	33	41	36	32	40	35	32	31
6	50	40	34	29	48	39	33	29	38	33	29	37	32	28	36	31	28	27
7	46	36	30	25	45	36	30	25	35	29	25	33	29	25	33	28	25	23
8	43	33	27	23	42	32	27	23	32	26	22	31	26	22	30	25	22	21
9	40	30	24	20	39	30	24	20	29	24	20	28	23	20	27	23	20	19
10	37	28	22	18	36	27	22	18	27	22	18	26	21	18	25	21	18	17

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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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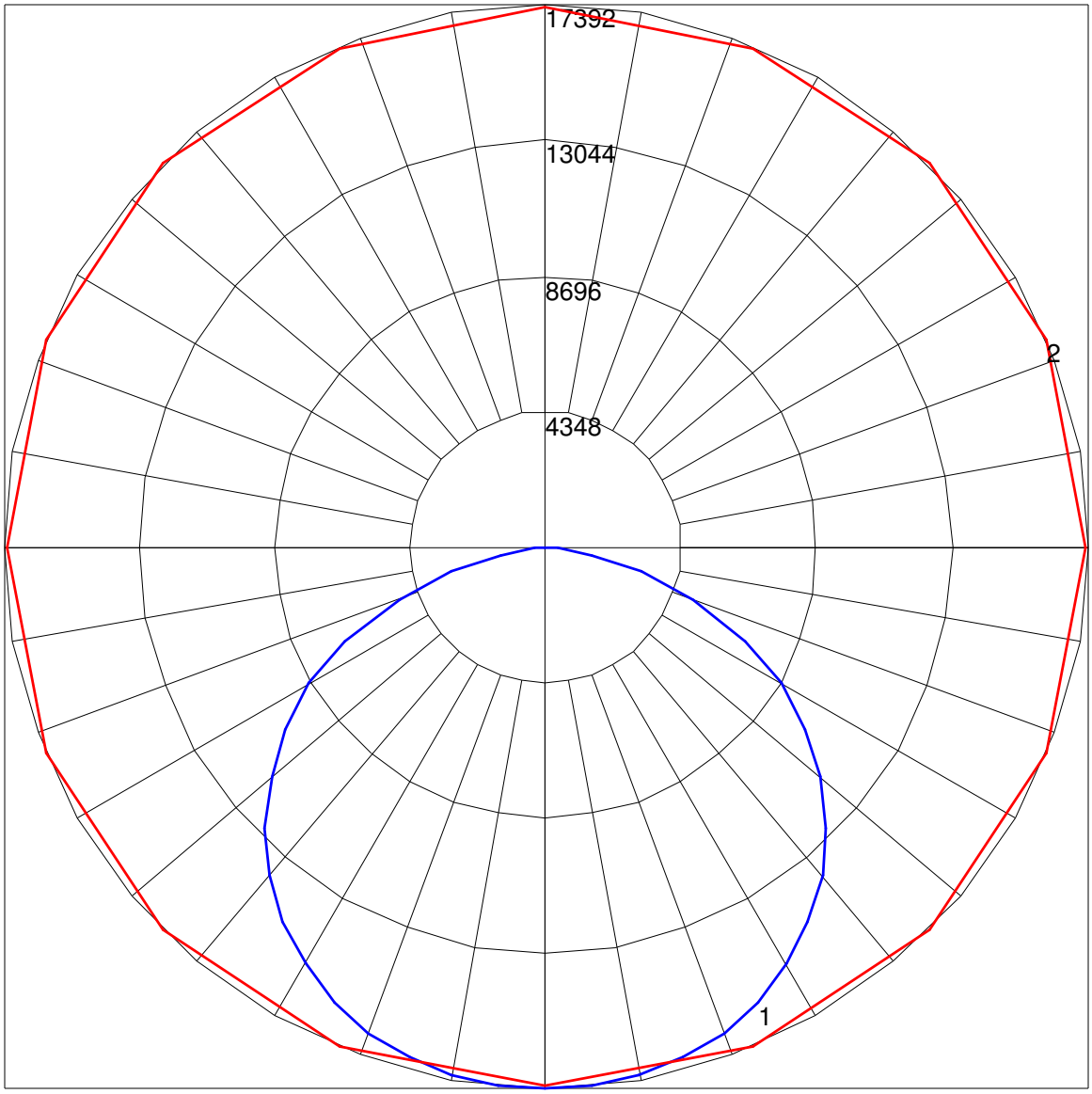
POLAR GRAPH



Maximum Candela = 17391.813 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.)