IES INDOOR REPORT
PHOTOMETRIC FILENAME : GP6-L600-840-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-L600-840-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	63000
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	479
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	52883	54561	55132
55	51734	53784	54942
65	48570	50739	48743
75	38375	36724	38283
85	12797	14010	14480

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	20713.526	20713.526	20713.526	20713.526	20713.526
5	20611.519	20697.375	20723.727	20684.624	20666.773
10	20421.954	20515.461	20568.165	20544.364	20514.611
15	20080.228	20194.137	20266.392	20273.193	20223.889
20	19554.038	19688.348	19842.210	19833.709	19790.356
25	18922.440	19031.248	19238.664	19262.466	19202.961
30	18126.780	18276.391	18454.054	18606.216	18505.058
35	17176.407	17377.022	17522.384	17740.000	17643.093
40	16039.871	16327.193	16438.551	16637.466	16600.063
45	14735.021	15080.148	15202.557	15284.163	15361.519
50	13284.811	13654.589	13739.596	13852.654	13972.513
55	11692.640	12036.916	12155.925	12276.634	12417.745
60	9978.909	10210.127	10467.697	10530.601	10695.514
65	8088.366	8177.622	8449.643	8198.874	8117.268
70	6040.560	6011.658	5952.153	6011.658	6178.270
75	3913.698	3845.693	3745.385	3832.942	3904.347
80	1890.544	1827.639	1774.935	1924.546	1903.295
85	439.483	572.094	481.137	573.794	497.288
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	7681.1	N.A.	12.20
0-30	16515.31	N.A.	26.20
0-40	27468.73	N.A.	43.60
0-60	49976.55	N.A.	79.30
0-80	62209.94	N.A.	98.70
0-90	63000.04	N.A.	100.00
10-90	61030.9	N.A.	96.90
20-40	19787.63	N.A.	31.40
20-50	31469.91	N.A.	50.00
40-70	30643.12	N.A.	48.60
60-80	12233.39	N.A.	19.40
70-80	4098.09	N.A.	6.50
80-90	790.10	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	63000.04	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1969.14
10-20	5711.96
20-30	8834.21
30-40	10953.42
40-50	11682.28
50-60	10825.53
60-70	8135.3
70-80	4098.09
80-90	790.10
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	101	101	101	101	99	99	99	99	94	94	94	90	90	90	87	87	87	85
1	93	89	85	82	90	87	83	80	83	80	78	80	78	75	77	75	73	71
2	84	77	71	66	82	75	70	66	72	68	64	70	66	63	67	64	61	59
3	77	68	61	55	74	66	60	54	64	58	53	61	57	53	59	55	52	50
4	70	60	52	46	68	58	51	46	56	50	45	54	49	45	53	48	44	42
5	64	53	45	40	62	52	45	39	50	44	39	49	43	39	47	42	38	36
6	59	48	40	35	58	47	40	34	45	39	34	44	38	34	43	37	33	32
7	55	43	36	30	53	42	35	30	41	35	30	40	34	30	39	34	30	28
8	51	39	32	27	50	39	32	27	38	31	27	37	31	27	36	30	26	25
9	48	36	29	24	46	36	29	24	35	28	24	34	28	24	33	28	24	22
10	45	33	26	22	43	33	26	22	32	26	22	31	26	22	30	25	22	20

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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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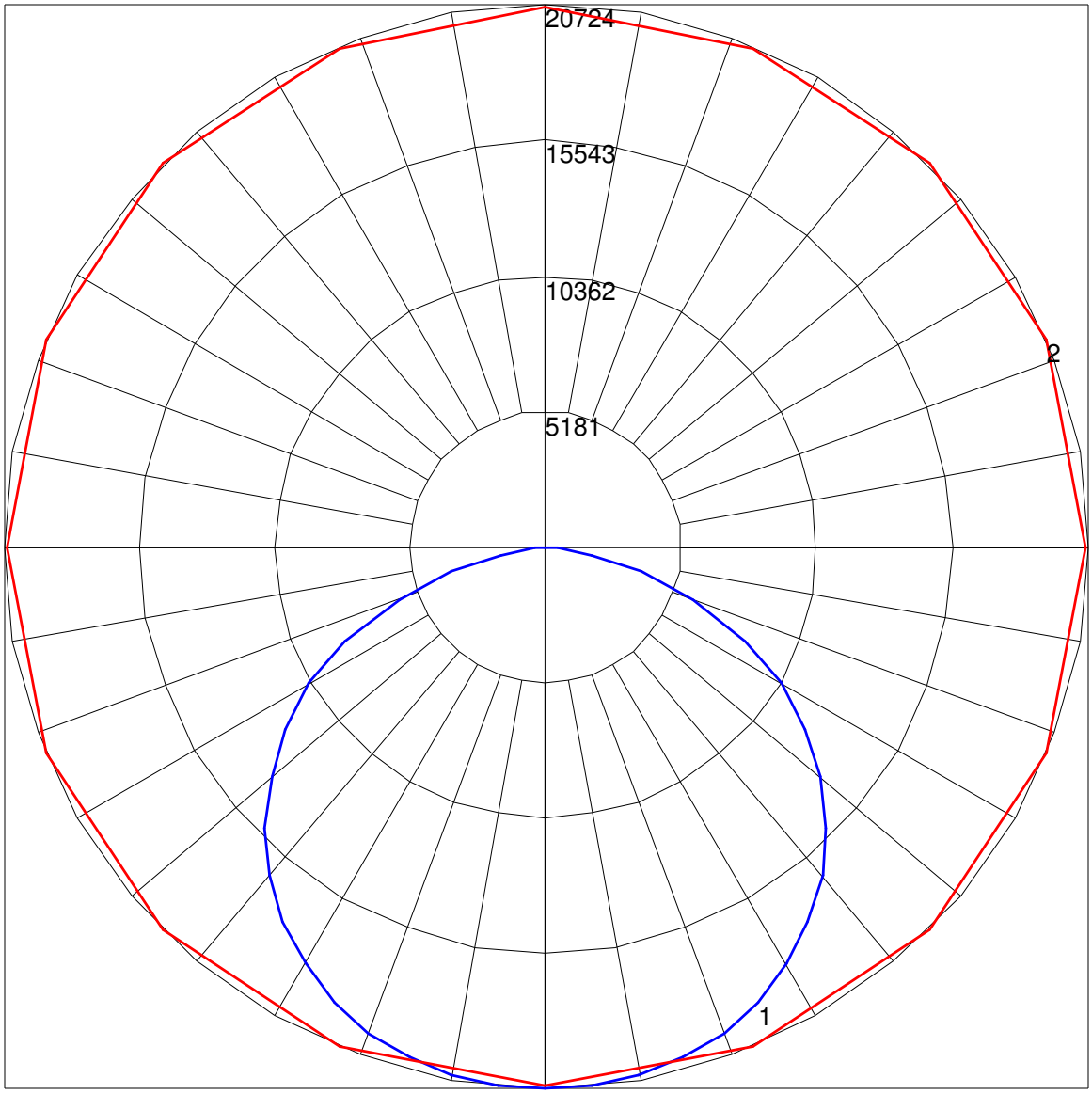
POLAR GRAPH



Maximum Candela = 20723.727 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.)