H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GP6-L600-840-W-DRV-UNV_30C.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] 07-OCT-2020
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 6-192 LED 22"ARRAYS EACH ON ALUM HEATSINK 24x27"HIGHBAY
[MORE] LUMINAIRE WITH NO DIFFUSERS/OPEN BOTTOM & CENTER DRIVER
[MORE] HOUSING 6 ADVANCE #XI095C275V054DNF1
[LUMCAT] GP6-L600-850-W-DRV-UNV 30C
[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	61110
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
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	51297	52925	53478
55	50182	52170	53294
65	47113	49217	47281
75	37223	35623	37134
85	12413	13589	14045

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	20092.121	20092.121	20092.121	20092.121	20092.121
5	19993.174	20076.455	20102.016	20064.086	20046.771
10	19809.296	19899.998	19951.121	19928.033	19899.174
15	19477.822	19588.314	19658.401	19664.998	19617.173
20	18967.418	19097.699	19246.945	19238.699	19196.646
25	18354.768	18460.312	18661.505	18684.593	18626.873
30	17582.977	17728.100	17900.434	18048.030	17949.907
35	16661.116	16855.713	16996.713	17207.801	17113.801
40	15558.675	15837.377	15945.395	16138.343	16102.062
45	14292.971	14627.744	14746.481	14825.639	14900.674
50	12886.267	13244.952	13327.408	13437.075	13553.339
55	11341.861	11675.809	11791.248	11908.336	12045.213
60	9679.543	9903.824	10153.666	10214.684	10374.649
65	7845.715	7932.294	8196.154	7952.908	7873.750
70	5859.343	5831.308	5773.589	5831.308	5992.922
75	3796.287	3730.322	3633.024	3717.954	3787.217
80	1833.828	1772.810	1721.687	1866.810	1846.196
85	426.299	554.931	466.703	556.580	482.369
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	7450.67	N.A.	12.20
0-30	16019.85	N.A.	26.20
0-40	26644.67	N.A.	43.60
0-60	48477.25	N.A.	79.30
0-80	60343.64	N.A.	98.70
0-90	61110.04	N.A.	100.00
10-90	59199.97	N.A.	96.90
20-40	19194.00	N.A.	31.40
20-50	30525.82	N.A.	50.00
40-70	29723.82	N.A.	48.60
60-80	11866.39	N.A.	19.40
70-80	3975.15	N.A.	6.50
80-90	766.40	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	61110.04	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1910.07
10-20	5540.6
20-30	8569.18
30-40	10624.82
40-50	11331.82
50-60	10500.77
60-70	7891.24
70-80	3975.15
80-90	766.40
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	26.0	27.7	26.4	28.0	28.3	26.3	27.9	26.6	28.2	28.5
	3H	27.7	29.2	28.1	29.6	29.9	27.9	29.4	28.3	29.7	30.1
	4H	28.3	29.7	28.7	30.0	30.4	28.4	29.8	28.8	30.2	30.6
	6H	28.6	29.9	29.0	30.3	30.7	28.7	30.0	29.1	30.4	30.8
	8H	28.7	29.9	29.1	30.3	30.7	28.8	30.0	29.2	30.4	30.8
	12H	28.7	29.9	29.1	30.3	30.7	28.8	30.0	29.3	30.4	30.8
4H	2H	26.7	28.1	27.1	28.5	28.8	26.9	28.3	27.3	28.6	29.0
	3H	28.6	29.8	29.0	30.2	30.6	28.7	29.9	29.1	30.3	30.7
	4H	29.2	30.3	29.7	30.7	31.2	29.3	30.4	29.8	30.8	31.2
	6H	29.6	30.6	30.1	31.0	31.5	29.7	30.7	30.2	31.1	31.6
	8H	29.7	30.6	30.2	31.0	31.5	29.8	30.7	30.3	31.1	31.6
	12H	29.8	30.5	30.3	31.0	31.5	29.9	30.6	30.4	31.1	31.6
8H	4H	29.5	30.3	29.9	30.8	31.2	29.6	30.4	30.0	30.9	31.3
	6H	29.9	30.7	30.4	31.1	31.6	30.0	30.7	30.5	31.2	31.7
	8H	30.1	30.7	30.6	31.2	31.7	30.2	30.8	30.7	31.3	31.8
	12H	30.1	30.7	30.6	31.2	31.7	30.2	30.8	30.7	31.3	31.9
12H	4H	29.5	30.3	30.0	30.7	31.2	29.6	30.3	30.1	30.8	31.3
	6H	30.0	30.6	30.5	31.1	31.6	30.1	30.7	30.6	31.2	31.7
	8H	30.1	30.7	30.6	31.2	31.7	30.2	30.8	30.7	31.3	31.8

Maximum UGR = 31.9

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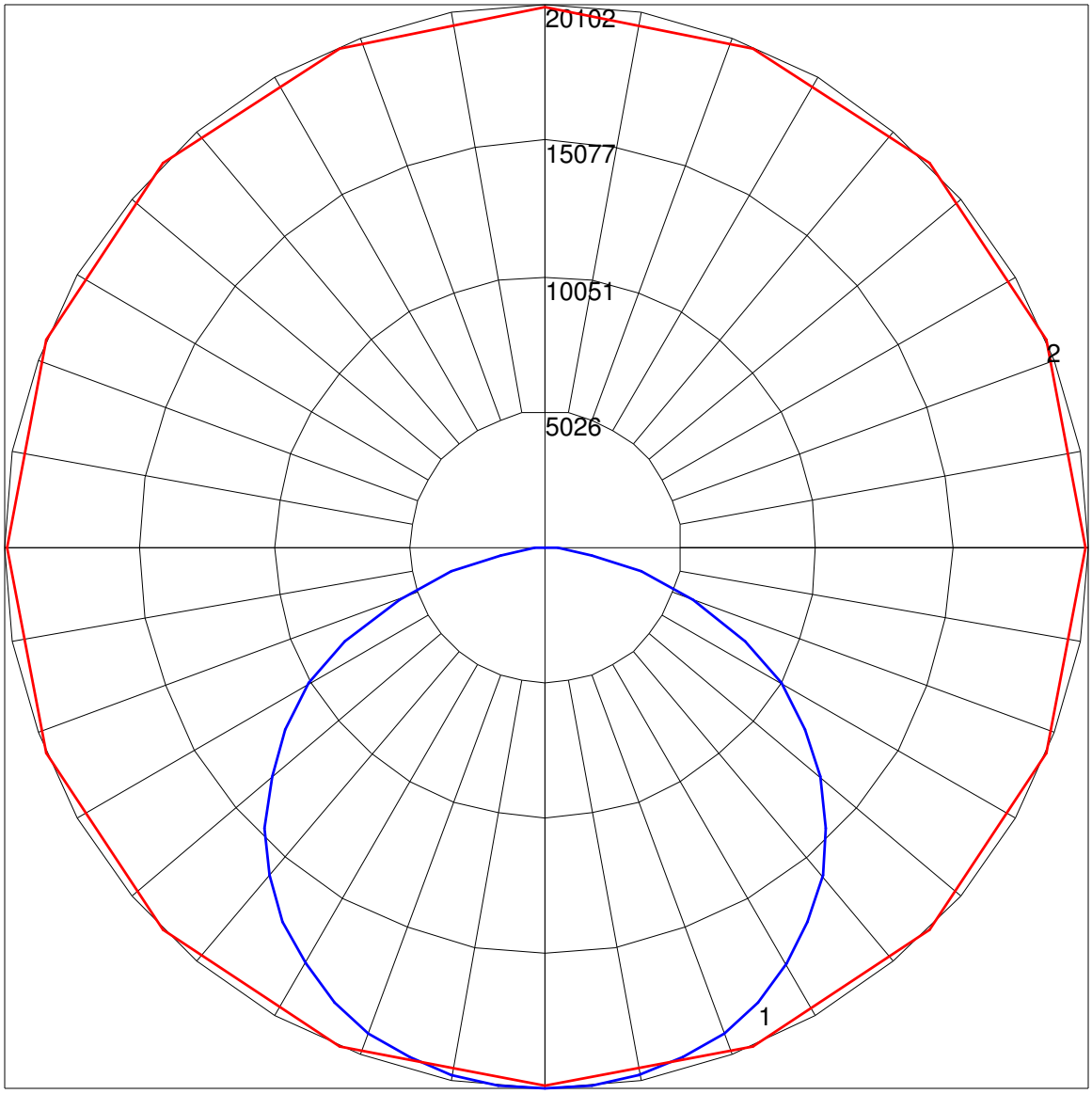
POLAR GRAPH



Maximum Candela = 20102.016 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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