H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L600-830-ND-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 19459.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 2023-07-20
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 96 INCH LOW PROFILE LED HIGHBAY LUMINAIRE
[MORE] WHITE REFL w/CLEAR ACRYLIC ROD DIFFUSERS OVER LED
[MORE] 0-10V UNIVERSAL VOLTAGE 120-277 DRIVERS
[LUMCAT] GL-8-L600-830-ND-DIM-UNV
[LAMPCAT] 22 INCH HLM LED ARRAYS
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Indoor, Commercial, Industrial, Manufacturing, Warehouse, High Bay
[_SEARCH_MOUNTING] Pendant, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	54973
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	390
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	0.58
Spacing Criterion (Diagonal)	0.72
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	8.00 ft
Luminous Width (90-270)	1.04 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	67698	7225	5341
55	46392	5363	4009
65	28074	4065	4126
75	13747	4491	3746
85	5271	1660	1660

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	55443.628	55443.628	55443.628	55443.628	55443.628
5	54204.247	53773.414	52909.782	52195.662	51782.535
10	53773.414	52008.771	48103.736	44745.603	44125.912
15	53041.589	49156.227	41723.873	36054.195	34177.417
20	53942.599	45026.923	31476.353	22973.803	20270.771
25	51501.215	38814.277	23048.559	15578.827	13363.679
30	50338.557	31118.309	14001.075	8596.979	7414.648
35	45908.260	22316.734	8276.313	5423.769	4918.180
40	42923.909	15297.507	5368.685	4072.253	3810.606
45	37106.685	9535.368	3960.119	3096.486	2927.301
50	28621.841	6399.536	3116.159	2533.846	2384.334
55	20626.847	4748.995	2384.334	1951.534	1782.348
60	14189.933	3377.806	1859.072	1632.836	1520.701
65	9196.997	2083.341	1331.843	1408.567	1351.516
70	5443.442	1501.029	1144.952	1182.330	1050.523
75	2758.115	1125.280	901.011	806.582	751.498
80	1331.843	826.254	562.640	356.076	300.993
85	356.076	263.614	112.135	112.135	112.135
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	16655.32	N.A.	30.30
0-30	29206.76	N.A.	53.10
0-40	39077.66	N.A.	71.10
0-60	50864.25	N.A.	92.50
0-80	54700.33	N.A.	99.50
0-90	54972.8	N.A.	100.00
10-90	50048.66	N.A.	91.00
20-40	22422.34	N.A.	40.80
20-50	29584.94	N.A.	53.80
40-70	14382.32	N.A.	26.20
60-80	3836.08	N.A.	7.00
70-80	1240.35	N.A.	2.30
80-90	272.46	N.A.	0.50
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	54972.8	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	4924.14
10-20	11731.18
20-30	12551.44
30-40	9870.9
40-50	7162.6
50-60	4623.99
60-70	2595.73
70-80	1240.35
80-90	272.46
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	51
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	48	47
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44
10	65	54	47	43	64	53	47	43	52	46	42	51	46	42	51	46	42	41

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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	20.9	22.2	21.3	22.6	22.9	14.0	14.0	14.0	14.0	14.0
	3H	22.8	24.0	23.2	24.3	24.6	14.0	15.2	14.4	15.5	15.9
	4H	23.3	24.4	23.7	24.7	25.1	14.8	15.8	15.2	16.2	16.6
	6H	23.6	24.6	24.1	25.0	25.4	15.1	16.1	15.5	16.4	16.8
	8H	23.7	24.6	24.1	25.0	25.4	15.1	16.1	15.6	16.5	16.9
	12H	23.7	24.6	24.2	25.0	25.4	15.1	16.0	15.6	16.4	16.8
4H	2H	20.8	21.9	21.2	22.2	22.6	14.0	14.0	14.0	14.0	14.4
	3H	22.7	23.6	23.1	24.0	24.4	14.9	15.8	15.4	16.2	16.6
	4H	23.3	24.0	23.7	24.5	24.9	15.8	16.6	16.2	17.0	17.4
	6H	23.7	24.4	24.2	24.8	25.3	16.2	16.9	16.7	17.3	17.8
	8H	23.8	24.4	24.3	24.9	25.4	16.3	16.9	16.7	17.4	17.8
	12H	23.9	24.4	24.3	24.9	25.4	16.3	16.9	16.8	17.3	17.8
8H	4H	23.2	23.8	23.6	24.3	24.7	16.2	16.9	16.7	17.3	17.8
	6H	23.7	24.2	24.2	24.7	25.2	16.7	17.3	17.2	17.8	18.2
	8H	23.8	24.3	24.3	24.8	25.3	16.9	17.3	17.4	17.8	18.3
	12H	23.9	24.3	24.4	24.8	25.4	16.9	17.3	17.4	17.8	18.4
12H	4H	23.2	23.7	23.6	24.2	24.7	16.3	16.9	16.8	17.4	17.9
	6H	23.6	24.1	24.2	24.6	25.1	16.9	17.3	17.4	17.8	18.4
	8H	23.8	24.2	24.3	24.7	25.3	17.0	17.4	17.5	17.9	18.5

Maximum UGR = 25.4

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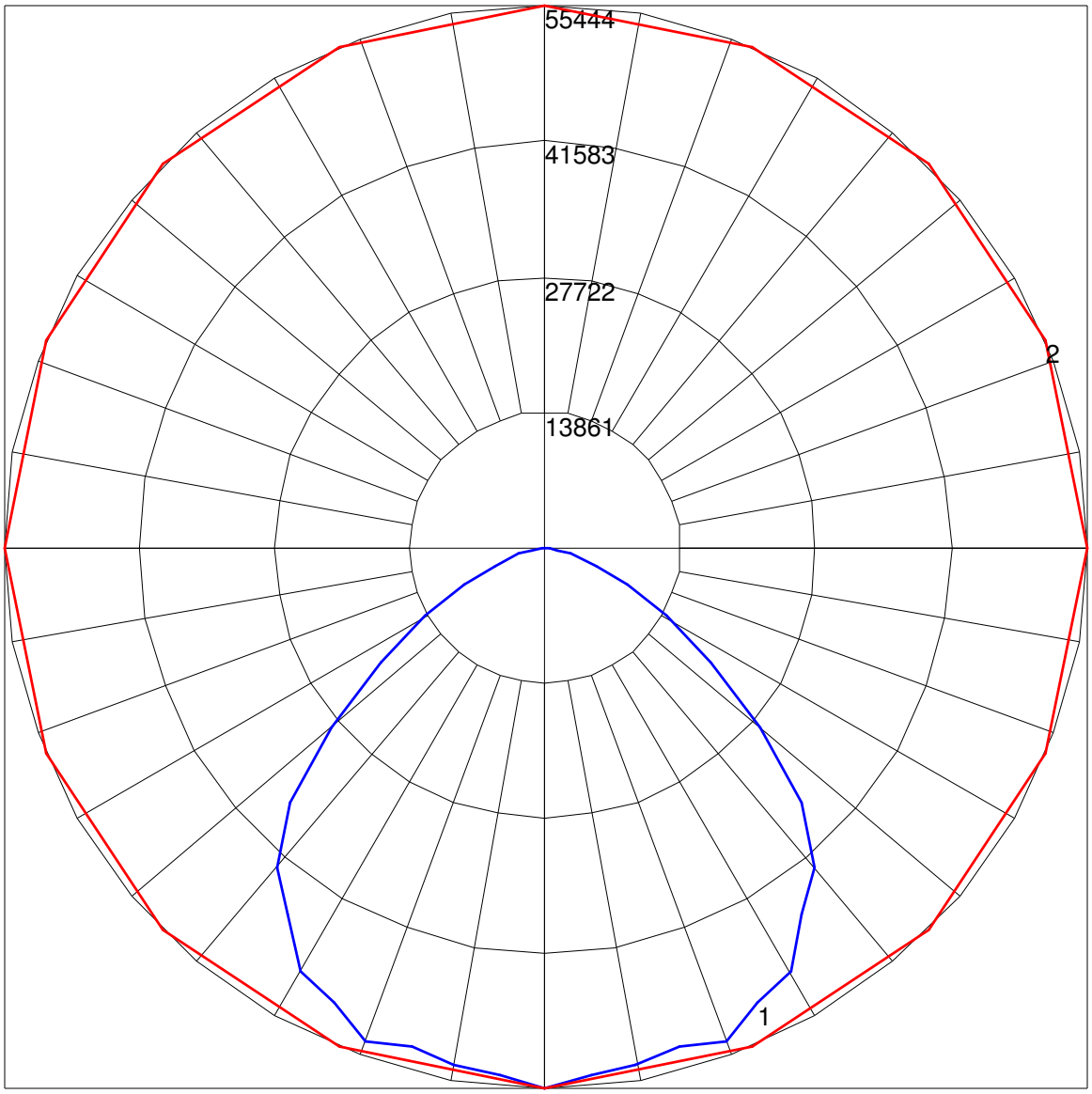
POLAR GRAPH



Maximum Candela = 55443.628 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

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