



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 80-8-L230-930-DIM-UNV\_.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] GEN FROM BALLABS TEST NO. 18635.0  
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
[ISSUEDATE] 2024-01-09  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
[LUMINAIRE] 8' SUSPENDED INDUSTRIAL LED LUMINAIRE  
[MORE] WHITE REFLECTOR w/OPEN BOTTOM  
[MORE] 0-10V DIMMING DRIVER  
[LUMCAT] 80-8-L230-930-DIM-UNV  
[LAMPCAT] HLM 22 INCH LED ARRAYS  
[ \_SEARCH\_SOURCETYPE] LED  
[ \_SEARCH\_APPLICATION] INDOOR  
[ \_SEARCH\_MOUNTING] SUSPENDED

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	18190
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	146.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	8.00 ft
Luminous Width (90-270)	0.88 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9867	9627	9602
55	9507	9298	9259
65	9055	8855	4733
75	7281	4045	775
85	3272	1431	1073

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	6835.361	6835.361	6835.361	6835.361	6835.361
<b>5</b>	6754.161	6730.961	6710.660	6736.761	6765.761
<b>10</b>	6617.860	6594.659	6699.060	6716.460	6649.760
<b>15</b>	6464.158	6530.859	6458.358	6406.158	6406.158
<b>20</b>	6269.856	6414.858	6208.956	6177.056	6177.056
<b>25</b>	6017.554	6049.454	5947.953	5930.553	5930.553
<b>30</b>	5695.651	5646.351	5608.650	5588.350	5582.550
<b>35</b>	5353.448	5304.148	5260.647	5254.847	5243.247
<b>40</b>	4976.445	4895.244	4872.044	4863.344	4857.544
<b>45</b>	4541.441	4448.640	4431.240	4425.440	4419.640
<b>50</b>	4033.936	3967.236	3946.935	3941.135	3941.135
<b>55</b>	3549.632	3477.131	3471.331	3456.831	3456.831
<b>60</b>	2998.627	2943.526	2937.726	2926.126	2917.426
<b>65</b>	2491.122	2441.822	2436.022	1876.317	1302.112
<b>70</b>	1902.417	1858.917	1487.713	1009.209	1029.509
<b>75</b>	1226.711	1226.711	681.506	588.705	130.501
<b>80</b>	649.606	420.504	118.901	98.601	98.601
<b>85</b>	185.602	98.601	81.201	60.901	60.901
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2467.4	N.A.	13.60
0-30	5217.77	N.A.	28.70
0-40	8519.07	N.A.	46.80
0-60	15046.87	N.A.	82.70
0-80	18071.87	N.A.	99.30
0-90	18190.26	N.A.	100.00
10-90	17548.83	N.A.	96.50
20-40	6051.67	N.A.	33.30
20-50	9478.61	N.A.	52.10
40-70	8684.73	N.A.	47.70
60-80	3025.00	N.A.	16.60
70-80	868.06	N.A.	4.80
80-90	118.39	N.A.	0.70
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	18190.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	641.43
10-20	1825.98
20-30	2750.37
30-40	3301.31
40-50	3426.94
50-60	3100.85
60-70	2156.94
70-80	868.06
80-90	118.39
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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	41	39
7	66	53	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

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**UGR TABLE - CORRECTED**

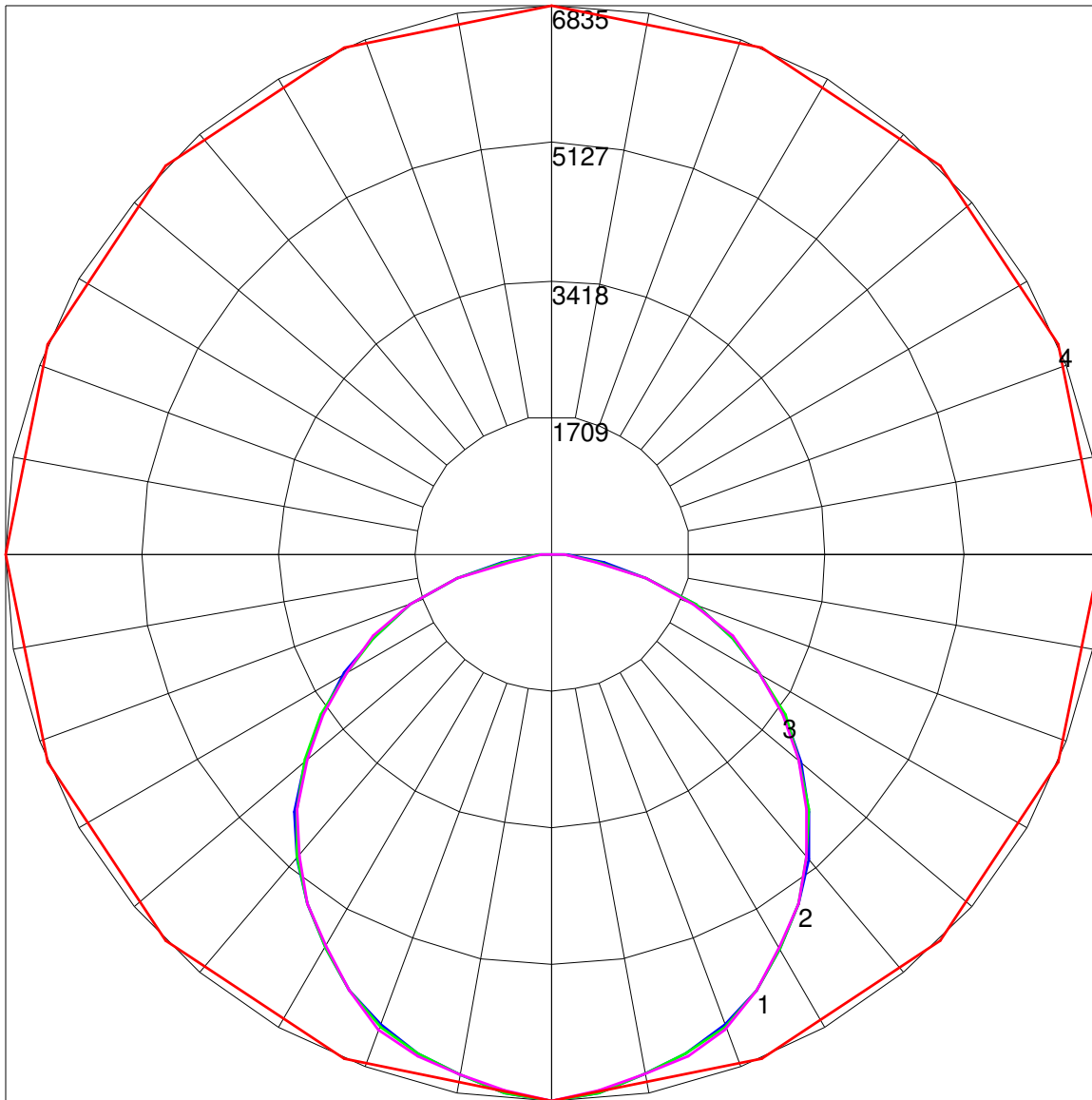
Reflectances

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	20.2	21.8	20.6	22.1	22.4	20.1	21.7	20.5	22.0	22.4
	3H	22.1	23.5	22.5	23.9	24.2	20.8	22.3	21.2	22.6	23.0
	4H	22.7	24.1	23.1	24.4	24.8	20.9	22.2	21.3	22.6	22.9
	6H	23.1	24.3	23.5	24.7	25.1	20.8	22.1	21.2	22.4	22.8
	8H	23.1	24.3	23.6	24.7	25.1	20.8	22.0	21.2	22.4	22.8
	12H	23.2	24.3	23.6	24.7	25.1	20.8	21.9	21.2	22.3	22.7
4H	2H	20.9	22.2	21.3	22.6	22.9	20.8	22.2	21.2	22.5	22.9
	3H	22.9	24.0	23.3	24.4	24.8	21.6	22.8	22.0	23.2	23.6
	4H	23.6	24.6	24.0	25.0	25.5	21.8	22.8	22.2	23.2	23.6
	6H	24.0	24.9	24.4	25.3	25.8	21.7	22.6	22.2	23.1	23.5
	8H	24.1	24.9	24.6	25.4	25.8	21.7	22.5	22.2	23.0	23.5
	12H	24.1	24.9	24.6	25.3	25.8	21.7	22.4	22.2	22.9	23.4
8H	4H	23.6	24.5	24.1	24.9	25.4	21.9	22.8	22.4	23.2	23.7
	6H	24.1	24.7	24.5	25.2	25.7	21.9	22.6	22.4	23.1	23.6
	8H	24.2	24.8	24.7	25.3	25.8	21.9	22.5	22.4	23.0	23.5
	12H	24.2	24.8	24.7	25.3	25.8	21.9	22.4	22.4	22.9	23.5
12H	4H	23.6	24.3	24.1	24.8	25.3	21.9	22.7	22.4	23.1	23.6
	6H	24.0	24.6	24.6	25.1	25.6	21.9	22.5	22.4	23.0	23.5
	8H	24.2	24.7	24.7	25.2	25.7	21.9	22.4	22.4	22.9	23.5

Maximum UGR = 25.8

POLAR GRAPH



Maximum Candela = 6835.361 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (5 - 185)  
# 3 - Vertical Plane Through Horizontal Angles (10 - 190)  
# 4 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)