



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 80-8-L230-950-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-L230-950-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	19802
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
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	10741	10480	10453
55	10350	10121	10079
65	9858	9640	5153
75	7927	4404	843
85	3561	1558	1169

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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>	7441.026	7441.026	7441.026	7441.026	7441.026
<b>5</b>	7352.630	7327.374	7305.275	7333.688	7365.258
<b>10</b>	7204.251	7178.995	7292.647	7311.589	7238.978
<b>15</b>	7036.931	7109.542	7030.617	6973.791	6973.791
<b>20</b>	6825.412	6983.262	6759.116	6724.389	6724.389
<b>25</b>	6550.754	6585.481	6474.987	6456.045	6456.045
<b>30</b>	6200.328	6146.660	6105.619	6083.520	6077.206
<b>35</b>	5827.804	5774.135	5726.780	5720.466	5707.838
<b>40</b>	5417.395	5328.999	5303.743	5294.272	5287.958
<b>45</b>	4943.846	4842.823	4823.881	4817.567	4811.253
<b>50</b>	4391.373	4318.762	4296.663	4290.349	4290.349
<b>55</b>	3864.156	3785.231	3778.917	3763.132	3763.132
<b>60</b>	3264.328	3204.345	3198.031	3185.403	3175.932
<b>65</b>	2711.854	2658.186	2651.872	2042.573	1417.489
<b>70</b>	2070.985	2023.631	1619.536	1098.633	1120.731
<b>75</b>	1335.407	1335.407	741.893	640.869	142.065
<b>80</b>	707.166	457.764	129.437	107.338	107.338
<b>85</b>	202.047	107.338	88.396	66.297	66.297
<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	2686.03	N.A.	13.60
0-30	5680.1	N.A.	28.70
0-40	9273.93	N.A.	46.80
0-60	16380.13	N.A.	82.70
0-80	19673.17	N.A.	99.30
0-90	19802.05	N.A.	100.00
10-90	19103.79	N.A.	96.50
20-40	6587.89	N.A.	33.30
20-50	10318.49	N.A.	52.10
40-70	9454.26	N.A.	47.70
60-80	3293.04	N.A.	16.60
70-80	944.98	N.A.	4.80
80-90	128.88	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	19802.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	698.26
10-20	1987.77
20-30	2994.07
30-40	3593.83
40-50	3730.6
50-60	3375.61
60-70	2348.06
70-80	944.98
80-90	128.88
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	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

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**UGR TABLE - CORRECTED**

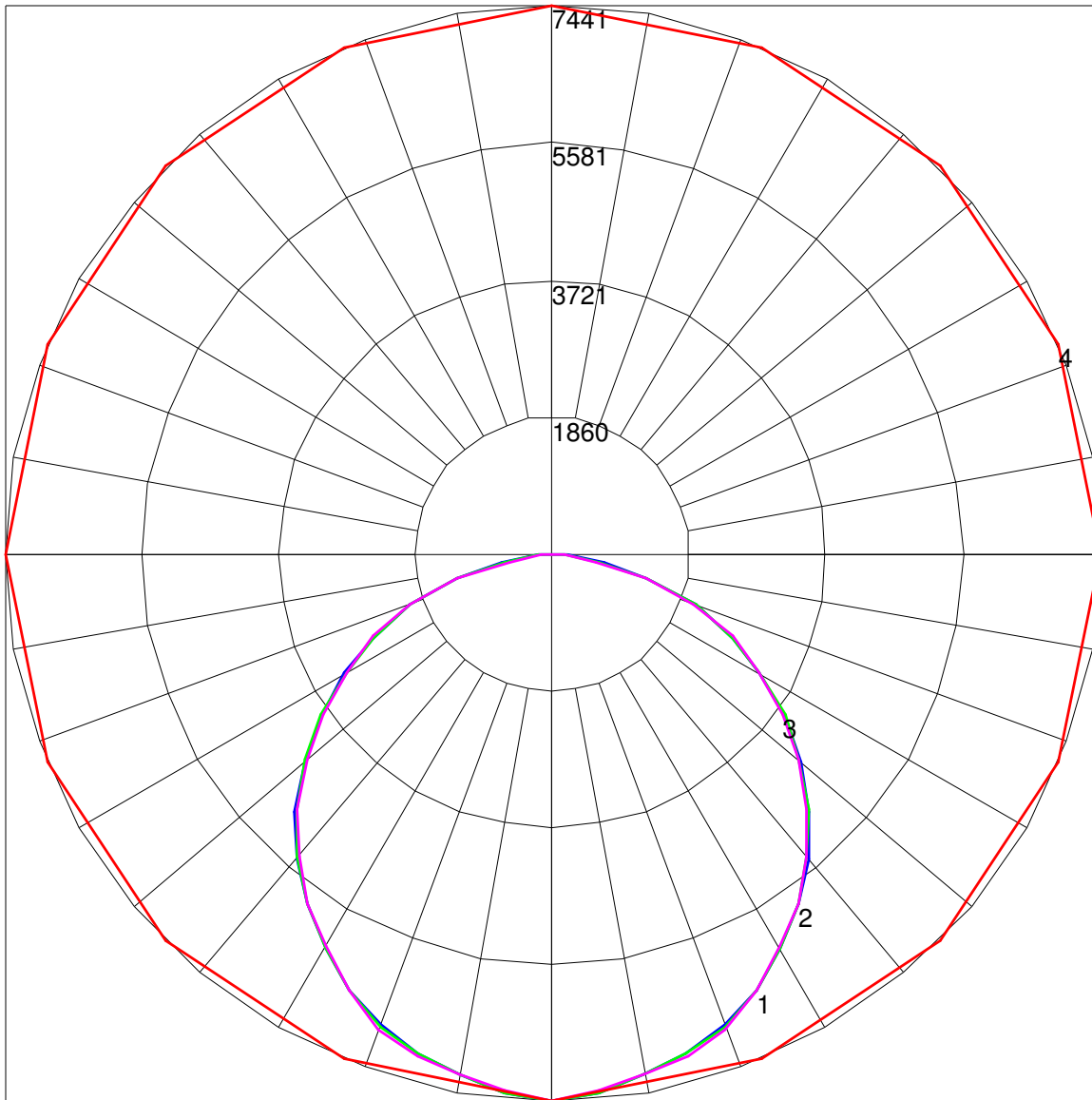
Reflectances

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	20.5	22.1	20.9	22.4	22.7	20.4	22.0	20.8	22.3	22.7
	3H	22.4	23.8	22.8	24.2	24.5	21.1	22.6	21.5	22.9	23.3
	4H	23.0	24.4	23.4	24.7	25.1	21.2	22.5	21.6	22.9	23.2
	6H	23.4	24.6	23.8	25.0	25.4	21.1	22.4	21.5	22.7	23.1
	8H	23.4	24.6	23.9	25.0	25.4	21.1	22.3	21.5	22.7	23.1
	12H	23.5	24.6	23.9	25.0	25.4	21.1	22.2	21.5	22.6	23.0
4H	2H	21.2	22.5	21.6	22.9	23.2	21.1	22.5	21.5	22.8	23.2
	3H	23.2	24.3	23.6	24.7	25.1	21.9	23.1	22.3	23.5	23.9
	4H	23.9	24.9	24.3	25.3	25.8	22.1	23.1	22.5	23.5	23.9
	6H	24.3	25.2	24.7	25.6	26.1	22.0	22.9	22.5	23.4	23.8
	8H	24.4	25.2	24.9	25.7	26.1	22.0	22.8	22.5	23.3	23.8
	12H	24.4	25.2	24.9	25.6	26.1	22.0	22.7	22.5	23.2	23.7
8H	4H	23.9	24.8	24.4	25.2	25.7	22.2	23.1	22.7	23.5	24.0
	6H	24.4	25.0	24.8	25.5	26.0	22.2	22.9	22.7	23.4	23.9
	8H	24.5	25.1	25.0	25.6	26.1	22.2	22.8	22.7	23.3	23.8
	12H	24.5	25.1	25.0	25.6	26.1	22.2	22.7	22.7	23.2	23.8
12H	4H	23.9	24.6	24.4	25.1	25.6	22.2	23.0	22.7	23.4	23.9
	6H	24.3	24.9	24.9	25.4	25.9	22.2	22.8	22.7	23.3	23.8
	8H	24.5	25.0	25.0	25.5	26.0	22.2	22.7	22.7	23.2	23.8

Maximum UGR = 26.1

POLAR GRAPH



Maximum Candela = 7441.026 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.)