



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 80-8-L230-840-(L200)-WG-8014-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  
[ISSUE DATE] 2024-01-11  
[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-L230-840-(L200)-WG-8014-DIM-UNV  
[LAMPCAT] HLM 22 INCH LED ARRAYS  
[ \_SEARCH\_SOURCE TYPE] LED  
[ \_SEARCH\_APPLICATION] INDOOR  
[ \_SEARCH\_MOUNTING] SUSPENDED

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	19919
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	162
Total Luminaire Watts	123.2
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	10805	10542	10515
55	10411	10181	10139
65	9916	9697	5183
75	7973	4430	848
85	3583	1567	1176

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	7485.094	7485.094	7485.094	7485.094	7485.094
<b>5</b>	7396.175	7370.770	7348.540	7377.121	7408.878
<b>10</b>	7246.918	7221.512	7335.837	7354.891	7281.850
<b>15</b>	7078.606	7151.647	7072.255	7015.093	7015.093
<b>20</b>	6865.835	7024.620	6799.146	6764.213	6764.213
<b>25</b>	6589.551	6624.483	6513.334	6494.280	6494.280
<b>30</b>	6237.049	6183.063	6141.779	6119.549	6113.198
<b>35</b>	5862.318	5808.332	5760.696	5754.345	5741.642
<b>40</b>	5449.479	5360.560	5335.154	5325.627	5319.276
<b>45</b>	4973.126	4871.504	4852.450	4846.098	4839.747
<b>50</b>	4417.381	4344.340	4322.110	4315.759	4315.759
<b>55</b>	3887.041	3807.649	3801.297	3785.419	3785.419
<b>60</b>	3283.660	3223.322	3216.971	3204.268	3194.741
<b>65</b>	2727.915	2673.929	2667.577	2054.670	1425.883
<b>70</b>	2083.251	2035.615	1629.127	1105.139	1127.369
<b>75</b>	1343.316	1343.316	746.286	644.664	142.906
<b>80</b>	711.354	460.475	130.203	107.973	107.973
<b>85</b>	203.244	107.973	88.919	66.689	66.689
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	2701.94	N.A.	13.60
0-30	5713.74	N.A.	28.70
0-40	9328.85	N.A.	46.80
0-60	16477.14	N.A.	82.70
0-80	19789.69	N.A.	99.30
0-90	19919.33	N.A.	100.00
10-90	19216.93	N.A.	96.50
20-40	6626.91	N.A.	33.30
20-50	10379.6	N.A.	52.10
40-70	9510.26	N.A.	47.70
60-80	3312.54	N.A.	16.60
70-80	950.58	N.A.	4.80
80-90	129.64	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	19919.33	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	702.40
10-20	1999.54
20-30	3011.8
30-40	3615.11
40-50	3752.69
50-60	3395.6
60-70	2361.97
70-80	950.58
80-90	129.64
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

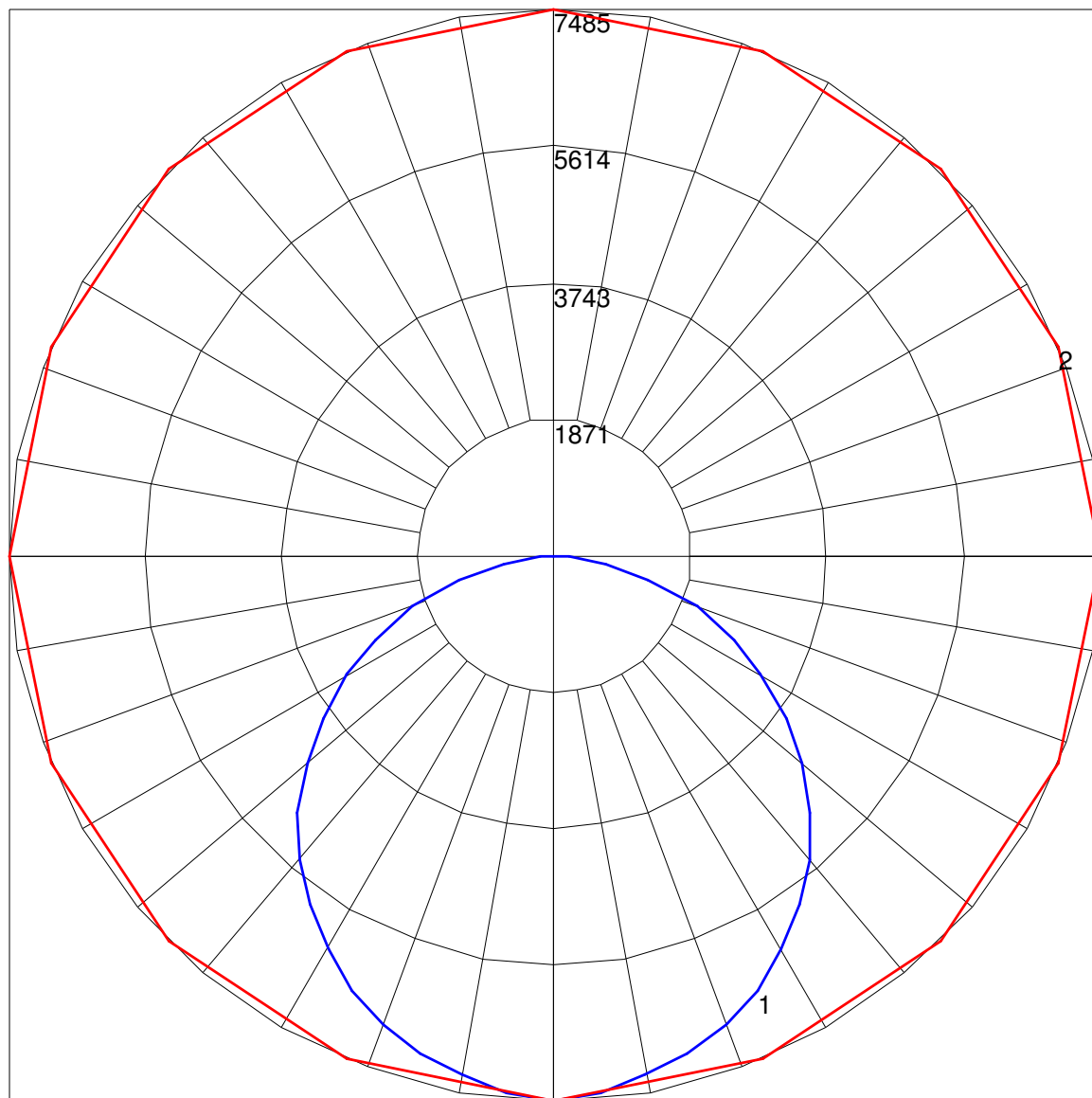
X=2H	Y=2H	20.5	22.1	20.9	22.4	22.7	20.4	22.0	20.8	22.3	22.7
	3H	22.4	23.8	22.8	24.2	24.5	21.1	22.6	21.5	22.9	23.3
	4H	23.0	24.4	23.4	24.7	25.1	21.2	22.5	21.6	22.9	23.2
	6H	23.4	24.6	23.8	25.0	25.4	21.1	22.4	21.5	22.7	23.1
	8H	23.4	24.6	23.9	25.0	25.4	21.1	22.3	21.5	22.7	23.1
	12H	23.5	24.6	23.9	25.0	25.4	21.1	22.2	21.5	22.6	23.0

### UGR Viewed Endwise

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 = 7485.094 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.)