



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 80-8-L106-935-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-L106-935-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	8524
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	66.4
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	4623	4511	4499
55	4455	4357	4339
65	4243	4149	2218
75	3412	1896	363
85	1533	671	503

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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>	3202.996	3202.996	3202.996	3202.996	3202.996
<b>5</b>	3164.946	3154.074	3144.562	3156.792	3170.381
<b>10</b>	3101.076	3090.205	3139.126	3147.280	3116.024
<b>15</b>	3029.053	3060.308	3026.335	3001.874	3001.874
<b>20</b>	2938.005	3005.951	2909.467	2894.519	2894.519
<b>25</b>	2819.778	2834.726	2787.163	2779.010	2779.010
<b>30</b>	2668.937	2645.835	2628.169	2618.656	2615.938
<b>35</b>	2508.583	2485.481	2465.097	2462.379	2456.944
<b>40</b>	2331.922	2293.872	2283.001	2278.924	2276.206
<b>45</b>	2128.083	2084.597	2076.444	2073.726	2071.008
<b>50</b>	1890.270	1859.015	1849.502	1846.785	1846.785
<b>55</b>	1663.329	1629.356	1626.638	1619.843	1619.843
<b>60</b>	1405.133	1379.313	1376.595	1371.159	1367.083
<b>65</b>	1167.320	1144.218	1141.500	879.227	610.159
<b>70</b>	891.457	871.074	697.131	472.907	482.420
<b>75</b>	574.827	574.827	319.348	275.863	61.152
<b>80</b>	304.400	197.045	55.716	46.204	46.204
<b>85</b>	86.971	46.204	38.050	28.538	28.538
<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	1156.21	N.A.	13.60
0-30	2445.01	N.A.	28.70
0-40	3991.97	N.A.	46.80
0-60	7050.84	N.A.	82.70
0-80	8468.33	N.A.	99.30
0-90	8523.81	N.A.	100.00
10-90	8223.24	N.A.	96.50
20-40	2835.76	N.A.	33.30
20-50	4441.6	N.A.	52.10
40-70	4069.6	N.A.	47.70
60-80	1417.49	N.A.	16.60
70-80	406.77	N.A.	4.80
80-90	55.48	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	8523.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	300.57
10-20	855.64
20-30	1288.8
30-40	1546.97
40-50	1605.84
50-60	1453.03
60-70	1010.73
70-80	406.77
80-90	55.48
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	39	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**

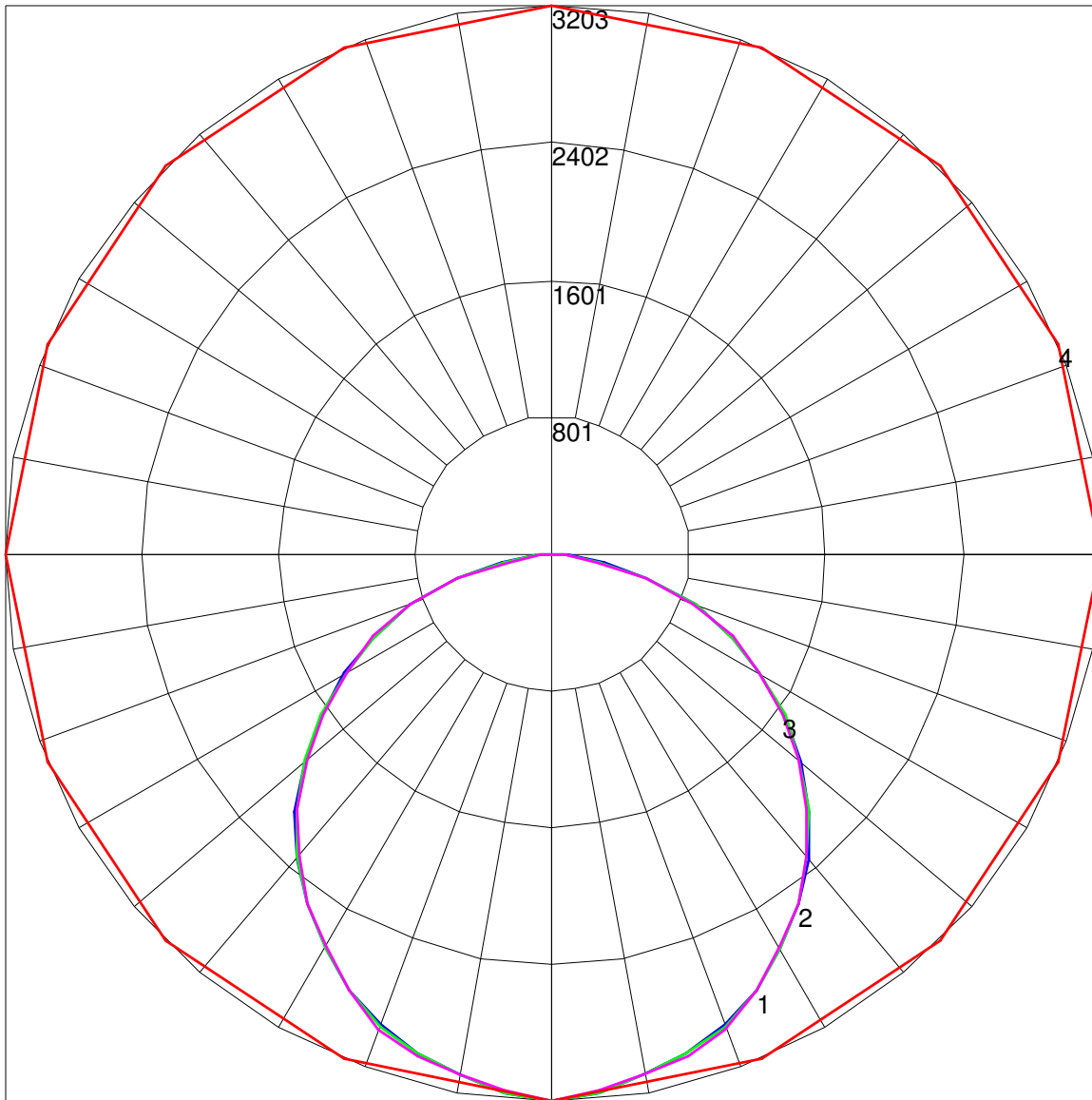
Reflectances

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	17.5	19.1	17.9	19.4	19.7	17.4	19.0	17.8	19.3	19.7
	3H	19.4	20.8	19.8	21.2	21.5	18.1	19.6	18.5	19.9	20.3
	4H	20.0	21.4	20.4	21.7	22.1	18.2	19.5	18.6	19.9	20.2
	6H	20.4	21.6	20.8	22.0	22.4	18.1	19.4	18.5	19.7	20.1
	8H	20.4	21.6	20.9	22.0	22.4	18.1	19.3	18.5	19.7	20.1
	12H	20.5	21.6	20.9	22.0	22.4	18.1	19.2	18.5	19.6	20.0
4H	2H	18.2	19.5	18.6	19.9	20.2	18.1	19.5	18.5	19.8	20.2
	3H	20.2	21.3	20.6	21.7	22.1	18.9	20.1	19.3	20.5	20.9
	4H	20.9	21.9	21.3	22.3	22.8	19.1	20.1	19.5	20.5	20.9
	6H	21.3	22.2	21.7	22.6	23.1	19.0	19.9	19.5	20.4	20.8
	8H	21.4	22.2	21.9	22.7	23.1	19.0	19.8	19.5	20.3	20.8
	12H	21.4	22.2	21.9	22.6	23.1	19.0	19.7	19.5	20.2	20.7
8H	4H	20.9	21.8	21.4	22.2	22.7	19.2	20.1	19.7	20.5	21.0
	6H	21.4	22.0	21.8	22.5	23.0	19.2	19.9	19.7	20.4	20.9
	8H	21.5	22.1	22.0	22.6	23.1	19.2	19.8	19.7	20.3	20.8
	12H	21.5	22.1	22.0	22.6	23.1	19.2	19.7	19.7	20.2	20.8
12H	4H	20.9	21.6	21.4	22.1	22.6	19.2	20.0	19.7	20.4	20.9
	6H	21.3	21.9	21.9	22.4	22.9	19.2	19.8	19.7	20.3	20.8
	8H	21.5	22.0	22.0	22.5	23.0	19.2	19.7	19.7	20.2	20.8

Maximum UGR = 23.1

POLAR GRAPH



Maximum Candela = 3202.996 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.)