



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 80-4-L63-840-(L50)-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] 02-24-2021

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 4-32 LED 22" ARRAYS 4' INDUSTRIAL LUMINAIRE

[MORE] WHITE REFLECTOR w/OPEN BOTTOM

[LUMCAT] 80-4-L63-840-(L50)-DIM-UNV

[LAMPCAT] 80 CRI 4000K CCT

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5006
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	159
Total Luminaire Watts	31.5
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)	4.00 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	5431	5299	5285
55	5233	5118	5096
65	4985	4874	2605
75	4008	2227	426
85	1801	788	591

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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>
0	1881.241	1881.241	1881.241	1881.241	1881.241
5	1858.892	1852.507	1846.920	1854.104	1862.085
10	1821.379	1814.994	1843.728	1848.517	1830.159
15	1779.077	1797.435	1777.481	1763.114	1763.114
20	1725.601	1765.509	1708.840	1700.061	1700.061
25	1656.162	1664.942	1637.007	1632.218	1632.218
30	1567.568	1553.999	1543.623	1538.036	1536.440
35	1473.386	1459.817	1447.845	1446.249	1443.056
40	1369.626	1347.278	1340.893	1338.498	1336.902
45	1249.904	1224.363	1219.574	1217.978	1216.381
50	1110.227	1091.870	1086.283	1084.687	1084.687
55	976.936	956.982	955.386	951.395	951.395
60	825.288	810.123	808.526	805.334	802.939
65	685.611	672.043	670.446	516.403	358.370
70	523.587	511.614	409.451	277.756	283.343
75	337.618	337.618	187.565	162.025	35.917
80	178.786	115.732	32.724	27.137	27.137
85	51.082	27.137	22.348	16.761	16.761
90	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	679.08	N.A.	13.60
0-30	1436.04	N.A.	28.70
0-40	2344.64	N.A.	46.80
0-60	4141.23	N.A.	82.70
0-80	4973.77	N.A.	99.30
0-90	5006.36	N.A.	100.00
10-90	4829.82	N.A.	96.50
20-40	1665.55	N.A.	33.30
20-50	2608.72	N.A.	52.10
40-70	2390.23	N.A.	47.70
60-80	832.55	N.A.	16.60
70-80	238.91	N.A.	4.80
80-90	32.58	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	5006.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	176.53
10-20	502.55
20-30	756.96
30-40	908.59
40-50	943.17
50-60	853.42
60-70	593.64
70-80	238.91
80-90	32.58
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	42	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**

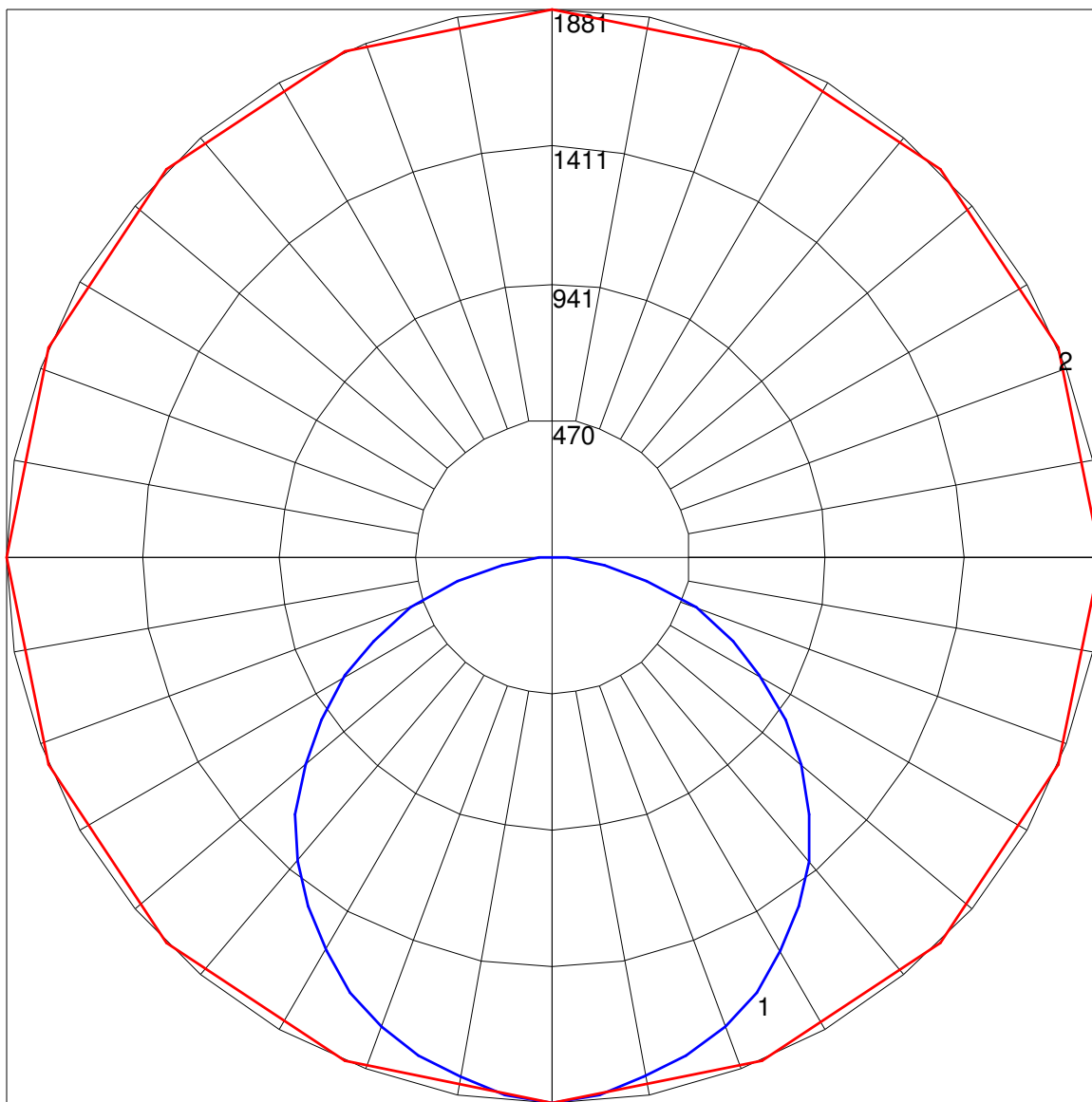
Reflectances

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	18.1	19.7	18.5	20.0	20.3	18.0	19.6	18.4	20.0	20.3
	3H	20.0	21.4	20.4	21.8	22.1	18.7	20.2	19.1	20.5	20.9
	4H	20.6	22.0	21.0	22.3	22.7	18.8	20.1	19.2	20.5	20.9
	6H	21.0	22.2	21.4	22.6	23.0	18.7	20.0	19.1	20.4	20.7
	8H	21.0	22.2	21.5	22.6	23.0	18.7	19.9	19.1	20.3	20.7
	12H	21.1	22.2	21.5	22.6	23.0	18.7	19.8	19.1	20.2	20.6
4H	2H	18.8	20.1	19.2	20.5	20.9	18.7	20.1	19.1	20.4	20.8
	3H	20.8	21.9	21.2	22.3	22.7	19.5	20.7	20.0	21.1	21.5
	4H	21.5	22.5	21.9	22.9	23.4	19.7	20.7	20.1	21.1	21.5
	6H	21.9	22.8	22.4	23.2	23.7	19.6	20.5	20.1	21.0	21.4
	8H	22.0	22.8	22.5	23.3	23.7	19.6	20.5	20.1	20.9	21.4
	12H	22.1	22.8	22.5	23.3	23.7	19.6	20.3	20.1	20.8	21.3
8H	4H	21.6	22.4	22.0	22.8	23.3	19.9	20.7	20.3	21.1	21.6
	6H	22.0	22.6	22.5	23.1	23.6	19.8	20.5	20.3	21.0	21.5
	8H	22.1	22.7	22.6	23.2	23.7	19.8	20.4	20.3	20.9	21.4
	12H	22.1	22.7	22.6	23.2	23.7	19.8	20.3	20.3	20.8	21.4
12H	4H	21.5	22.3	22.0	22.7	23.2	19.8	20.6	20.3	21.1	21.5
	6H	22.0	22.6	22.5	23.0	23.6	19.8	20.4	20.4	20.9	21.4
	8H	22.1	22.6	22.6	23.1	23.7	19.8	20.3	20.3	20.8	21.4

Maximum UGR = 23.7

POLAR GRAPH



Maximum Candela = 1881.241 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.)