



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 80-8-L65-940-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-L65-940-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	5531
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	40.5
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)	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	3000	2927	2919
55	2891	2827	2815
65	2753	2692	1439
75	2214	1230	236
85	995	435	326

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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>	2078.268	2078.268	2078.268	2078.268	2078.268
<b>5</b>	2053.579	2046.525	2040.353	2048.288	2057.106
<b>10</b>	2012.137	2005.083	2036.826	2042.116	2021.836
<b>15</b>	1965.405	1985.685	1963.641	1947.770	1947.770
<b>20</b>	1906.328	1950.415	1887.811	1878.112	1878.112
<b>25</b>	1829.616	1839.315	1808.454	1803.164	1803.164
<b>30</b>	1731.743	1716.753	1705.290	1699.118	1697.355
<b>35</b>	1627.697	1612.707	1599.481	1597.718	1594.191
<b>40</b>	1513.071	1488.382	1481.328	1478.683	1476.919
<b>45</b>	1380.809	1352.593	1347.303	1345.539	1343.776
<b>50</b>	1226.504	1206.224	1200.052	1198.288	1198.288
<b>55</b>	1079.253	1057.210	1055.446	1051.037	1051.037
<b>60</b>	911.722	894.969	893.205	889.678	887.033
<b>65</b>	757.417	742.427	740.664	570.488	395.902
<b>70</b>	578.423	565.197	452.334	306.846	313.019
<b>75</b>	372.977	372.977	207.210	178.994	39.678
<b>80</b>	197.510	127.853	36.151	29.979	29.979
<b>85</b>	56.432	29.979	24.689	18.517	18.517
<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	750.21	N.A.	13.60
0-30	1586.44	N.A.	28.70
0-40	2590.19	N.A.	46.80
0-60	4574.95	N.A.	82.70
0-80	5494.69	N.A.	99.30
0-90	5530.68	N.A.	100.00
10-90	5335.66	N.A.	96.50
20-40	1839.99	N.A.	33.30
20-50	2881.94	N.A.	52.10
40-70	2640.56	N.A.	47.70
60-80	919.74	N.A.	16.60
70-80	263.93	N.A.	4.80
80-90	36.00	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	5530.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	195.02
10-20	555.18
20-30	836.24
30-40	1003.75
40-50	1041.95
50-60	942.80
60-70	655.81
70-80	263.93
80-90	36.00
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**

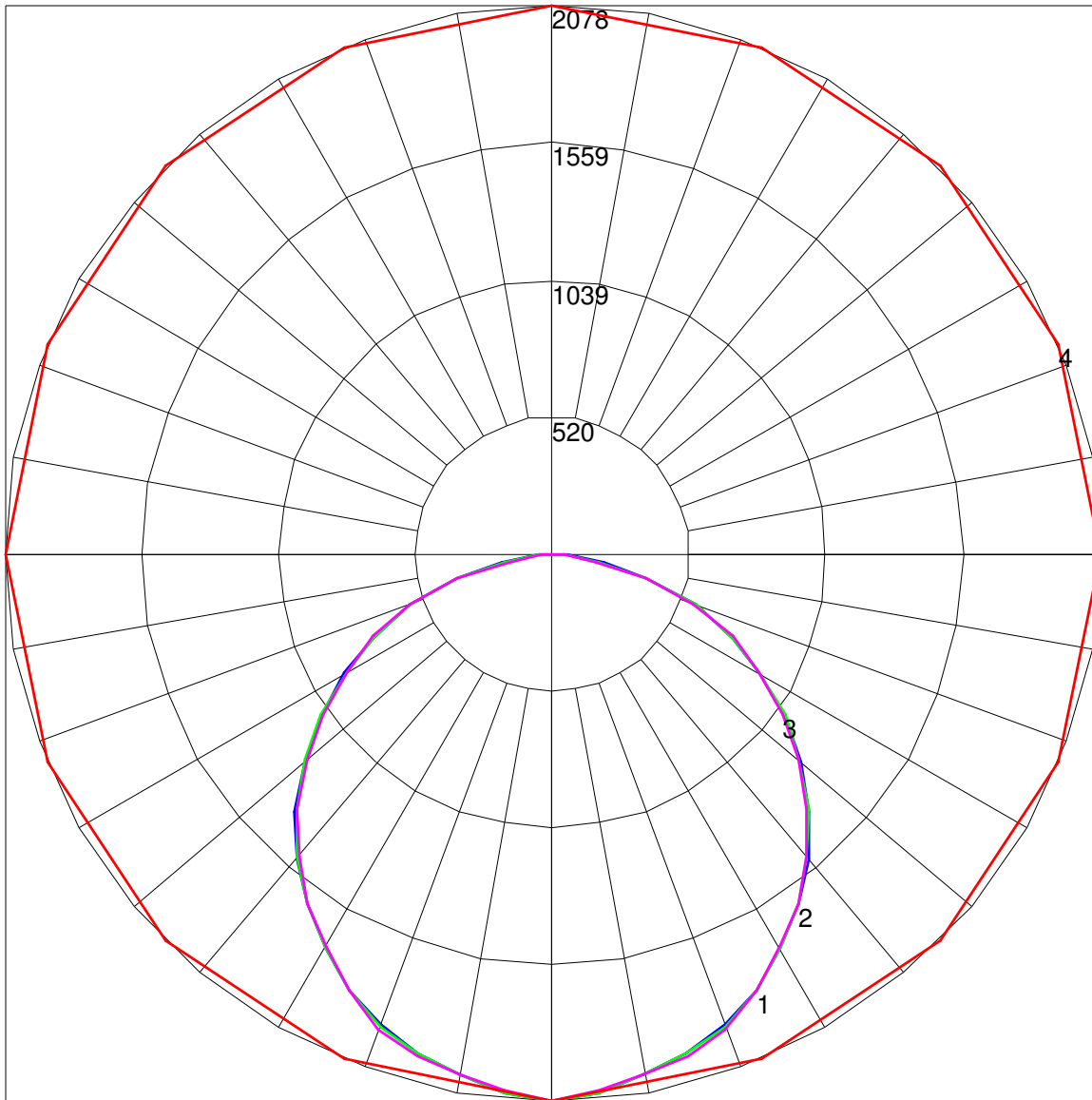
Reflectances

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	16.0	17.6	16.4	17.9	18.2	15.9	17.5	16.3	17.8	18.2
	3H	17.9	19.3	18.3	19.7	20.0	16.6	18.1	17.0	18.4	18.8
	4H	18.5	19.9	18.9	20.2	20.6	16.7	18.0	17.1	18.4	18.7
	6H	18.9	20.1	19.3	20.5	20.9	16.6	17.9	17.0	18.2	18.6
	8H	18.9	20.1	19.4	20.5	20.9	16.6	17.8	17.0	18.2	18.6
	12H	19.0	20.1	19.4	20.5	20.9	16.6	17.7	17.0	18.1	18.5
4H	2H	16.7	18.0	17.1	18.4	18.7	16.6	18.0	17.0	18.3	18.7
	3H	18.7	19.8	19.1	20.2	20.6	17.4	18.6	17.8	19.0	19.4
	4H	19.4	20.4	19.8	20.8	21.3	17.6	18.6	18.0	19.0	19.4
	6H	19.8	20.7	20.2	21.1	21.6	17.5	18.4	18.0	18.9	19.3
	8H	19.9	20.7	20.4	21.2	21.6	17.5	18.3	18.0	18.8	19.3
	12H	19.9	20.7	20.4	21.1	21.6	17.5	18.2	18.0	18.7	19.2
8H	4H	19.4	20.3	19.9	20.7	21.2	17.7	18.6	18.2	19.0	19.5
	6H	19.9	20.5	20.4	21.0	21.5	17.7	18.4	18.2	18.9	19.4
	8H	20.0	20.6	20.5	21.1	21.6	17.7	18.3	18.2	18.8	19.3
	12H	20.0	20.6	20.5	21.1	21.6	17.7	18.2	18.2	18.7	19.3
12H	4H	19.4	20.1	19.9	20.6	21.1	17.7	18.5	18.2	18.9	19.4
	6H	19.8	20.4	20.4	20.9	21.4	17.7	18.3	18.2	18.8	19.3
	8H	20.0	20.5	20.5	21.0	21.5	17.7	18.2	18.2	18.7	19.3

Maximum UGR = 21.6

POLAR GRAPH



Maximum Candela = 2078.268 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.)