



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 80-8-L65-950-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-L65-950-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	5731
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
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	3108	3033	3025
55	2995	2929	2917
65	2853	2790	1491
75	2294	1274	244
85	1031	451	338

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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>	2153.386	2153.386	2153.386	2153.386	2153.386
<b>5</b>	2127.804	2120.496	2114.100	2122.323	2131.459
<b>10</b>	2084.865	2077.556	2110.446	2115.927	2094.914
<b>15</b>	2036.443	2057.456	2034.616	2018.171	2018.171
<b>20</b>	1975.231	2020.912	1956.045	1945.995	1945.995
<b>25</b>	1895.747	1905.797	1873.820	1868.338	1868.338
<b>30</b>	1794.336	1778.804	1766.927	1760.532	1758.705
<b>35</b>	1686.529	1670.998	1657.294	1655.467	1651.812
<b>40</b>	1567.760	1542.179	1534.870	1532.129	1530.302
<b>45</b>	1430.718	1401.482	1396.001	1394.173	1392.346
<b>50</b>	1270.836	1249.822	1243.427	1241.600	1241.600
<b>55</b>	1118.262	1095.422	1093.595	1089.027	1089.027
<b>60</b>	944.676	927.317	925.490	921.835	919.095
<b>65</b>	784.793	769.262	767.435	591.108	410.212
<b>70</b>	599.330	585.626	468.683	317.937	324.333
<b>75</b>	386.458	386.458	214.699	185.463	41.113
<b>80</b>	204.649	132.474	37.458	31.063	31.063
<b>85</b>	58.471	31.063	25.581	19.186	19.186
<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	777.32	N.A.	13.60
0-30	1643.79	N.A.	28.70
0-40	2683.82	N.A.	46.80
0-60	4740.31	N.A.	82.70
0-80	5693.29	N.A.	99.30
0-90	5730.59	N.A.	100.00
10-90	5528.52	N.A.	96.50
20-40	1906.49	N.A.	33.30
20-50	2986.11	N.A.	52.10
40-70	2736.00	N.A.	47.70
60-80	952.99	N.A.	16.60
70-80	273.47	N.A.	4.80
80-90	37.30	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	5730.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	202.07
10-20	575.25
20-30	866.46
30-40	1040.03
40-50	1079.61
50-60	976.88
60-70	679.51
70-80	273.47
80-90	37.30
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**

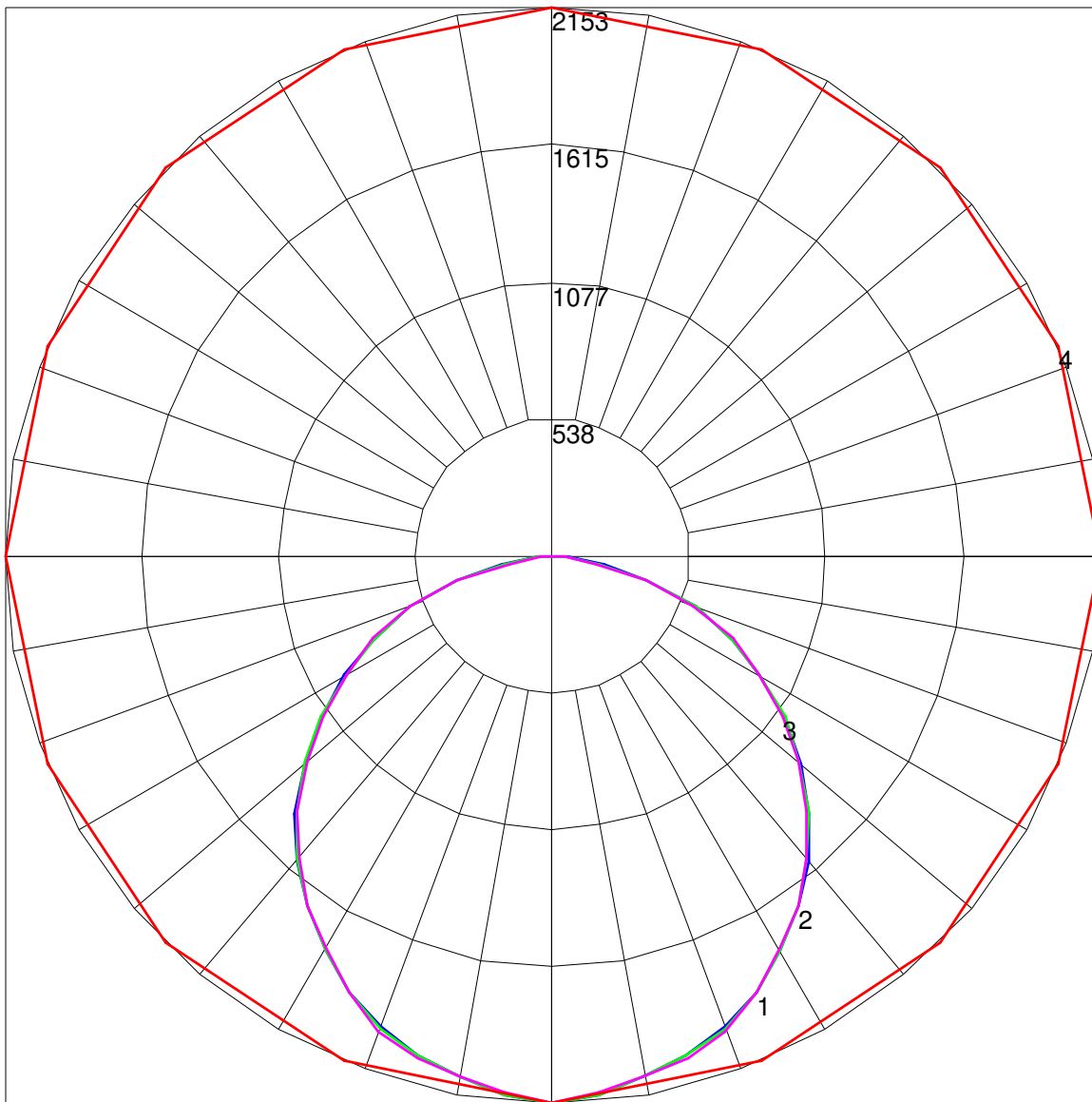
Reflectances

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	16.2	17.8	16.6	18.1	18.4	16.1	17.7	16.5	18.0	18.4
	3H	18.1	19.5	18.5	19.9	20.2	16.8	18.3	17.2	18.6	19.0
	4H	18.7	20.1	19.1	20.4	20.8	16.9	18.2	17.3	18.6	18.9
	6H	19.1	20.3	19.5	20.7	21.1	16.8	18.1	17.2	18.4	18.8
	8H	19.1	20.3	19.6	20.7	21.1	16.8	18.0	17.2	18.4	18.8
	12H	19.2	20.3	19.6	20.7	21.1	16.8	17.9	17.2	18.3	18.7
4H	2H	16.9	18.2	17.3	18.6	18.9	16.8	18.2	17.2	18.5	18.9
	3H	18.9	20.0	19.3	20.4	20.8	17.6	18.8	18.0	19.2	19.6
	4H	19.6	20.6	20.0	21.0	21.5	17.8	18.8	18.2	19.2	19.6
	6H	20.0	20.9	20.4	21.3	21.8	17.7	18.6	18.2	19.1	19.5
	8H	20.1	20.9	20.6	21.4	21.8	17.7	18.5	18.2	19.0	19.5
	12H	20.1	20.9	20.6	21.3	21.8	17.7	18.4	18.2	18.9	19.4
8H	4H	19.6	20.5	20.1	20.9	21.4	17.9	18.8	18.4	19.2	19.7
	6H	20.1	20.7	20.6	21.2	21.7	17.9	18.6	18.4	19.1	19.6
	8H	20.2	20.8	20.7	21.3	21.8	17.9	18.5	18.4	19.0	19.5
	12H	20.2	20.8	20.7	21.3	21.8	17.9	18.4	18.4	18.9	19.5
12H	4H	19.6	20.3	20.1	20.8	21.3	17.9	18.7	18.4	19.1	19.6
	6H	20.0	20.6	20.6	21.1	21.6	17.9	18.5	18.4	19.0	19.5
	8H	20.2	20.7	20.7	21.2	21.7	17.9	18.4	18.4	18.9	19.5

Maximum UGR = 21.8

POLAR GRAPH



Maximum Candela = 2153.386 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.)