



IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 80-8-L154-950-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-L154-950-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	13254
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	100.2
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	7189	7015	6997
55	6928	6775	6746
65	6598	6452	3449
75	5306	2948	564
85	2384	1043	782

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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>	4980.614	4980.614	4980.614	4980.614	4980.614
<b>5</b>	4921.447	4904.542	4889.750	4908.769	4929.900
<b>10</b>	4822.131	4805.226	4881.298	4893.977	4845.375
<b>15</b>	4710.136	4758.737	4705.909	4667.873	4667.873
<b>20</b>	4568.557	4674.213	4524.181	4500.937	4500.937
<b>25</b>	4384.716	4407.960	4334.001	4321.322	4321.322
<b>30</b>	4150.160	4114.237	4086.766	4071.975	4067.748
<b>35</b>	3900.812	3864.889	3833.192	3828.966	3820.514
<b>40</b>	3626.107	3566.940	3550.035	3543.696	3539.469
<b>45</b>	3309.140	3241.520	3228.841	3224.615	3220.389
<b>50</b>	2939.344	2890.743	2875.951	2871.725	2871.725
<b>55</b>	2586.454	2533.626	2529.400	2518.834	2518.834
<b>60</b>	2184.962	2144.813	2140.587	2132.134	2125.795
<b>65</b>	1815.167	1779.244	1775.017	1367.186	948.789
<b>70</b>	1386.204	1354.507	1084.029	735.364	750.156
<b>75</b>	893.848	893.848	496.582	428.963	95.090
<b>80</b>	473.338	306.402	86.638	71.846	71.846
<b>85</b>	135.239	71.846	59.167	44.375	44.375
<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	1797.88	N.A.	13.60
0-30	3801.95	N.A.	28.70
0-40	6207.46	N.A.	46.80
0-60	10963.96	N.A.	82.70
0-80	13168.14	N.A.	99.30
0-90	13254.41	N.A.	100.00
10-90	12787.03	N.A.	96.50
20-40	4409.58	N.A.	33.30
20-50	6906.63	N.A.	52.10
40-70	6328.17	N.A.	47.70
60-80	2204.18	N.A.	16.60
70-80	632.52	N.A.	4.80
80-90	86.27	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	13254.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	467.38
10-20	1330.51
20-30	2004.07
30-40	2405.51
40-50	2497.06
50-60	2259.45
60-70	1571.66
70-80	632.52
80-90	86.27
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**

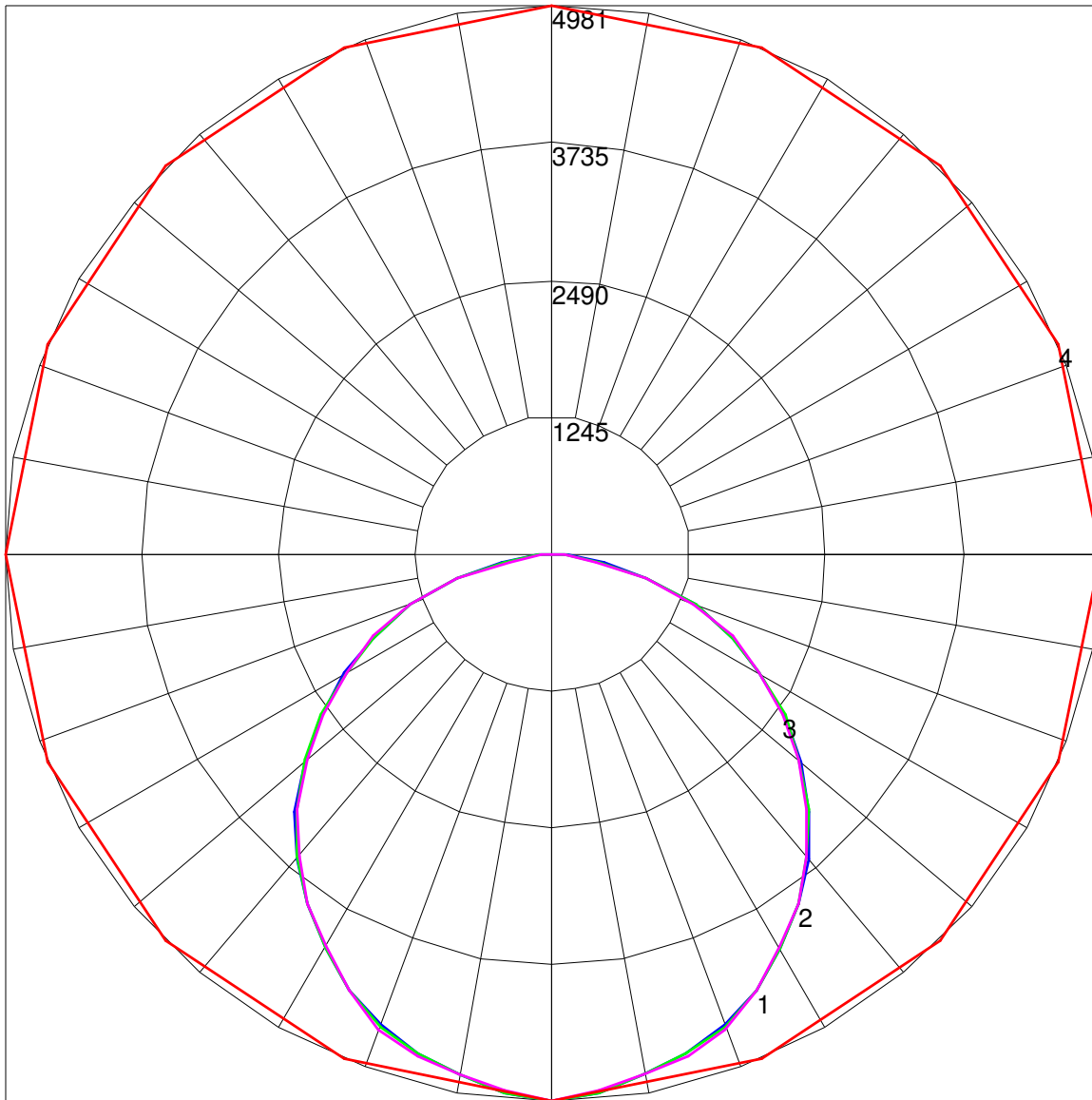
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	19.1	20.7	19.5	21.0	21.3	19.0	20.6	19.4	20.9	21.3
	3H	21.0	22.4	21.4	22.8	23.1	19.7	21.2	20.1	21.5	21.9
	4H	21.6	23.0	22.0	23.3	23.7	19.8	21.1	20.2	21.5	21.8
	6H	22.0	23.2	22.4	23.6	24.0	19.7	21.0	20.1	21.3	21.7
	8H	22.0	23.2	22.5	23.6	24.0	19.7	20.9	20.1	21.3	21.7
	12H	22.1	23.2	22.5	23.6	24.0	19.7	20.8	20.1	21.2	21.6
4H	2H	19.8	21.1	20.2	21.5	21.8	19.7	21.1	20.1	21.4	21.8
	3H	21.8	22.9	22.2	23.3	23.7	20.5	21.7	20.9	22.1	22.5
	4H	22.5	23.5	22.9	23.9	24.4	20.7	21.7	21.1	22.1	22.5
	6H	22.9	23.8	23.3	24.2	24.7	20.6	21.5	21.1	22.0	22.4
	8H	23.0	23.8	23.5	24.3	24.7	20.6	21.4	21.1	21.9	22.4
	12H	23.0	23.8	23.5	24.2	24.7	20.6	21.3	21.1	21.8	22.3
8H	4H	22.5	23.4	23.0	23.8	24.3	20.8	21.7	21.3	22.1	22.6
	6H	23.0	23.6	23.4	24.1	24.6	20.8	21.5	21.3	22.0	22.5
	8H	23.1	23.7	23.6	24.2	24.7	20.8	21.4	21.3	21.9	22.4
	12H	23.1	23.7	23.6	24.2	24.7	20.8	21.3	21.3	21.8	22.4
12H	4H	22.5	23.2	23.0	23.7	24.2	20.8	21.6	21.3	22.0	22.5
	6H	22.9	23.5	23.5	24.0	24.5	20.8	21.4	21.3	21.9	22.4
	8H	23.1	23.6	23.6	24.1	24.6	20.8	21.3	21.3	21.8	22.4

Maximum UGR = 24.7

POLAR GRAPH



Maximum Candela = 4980.614 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.)