



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 12-4-L84-840-SAF12125-(L65)-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM BALLABS TEST NO. 18637.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIE, INC  
 [ISSUEDATE] 02-SEP-2021  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] 2x4' WHITE SURFACE MOUNT LED LUMINAIRE  
 [MORE] w/PAT12 FROSTED LENS (PRISMS DOWN)  
 [LUMCAT] 12-4-L84-840-SAF12125-(L65)-DIM-UNV  
 [LAMPCAT] HLM 80 CRI 4000K CCT  
 [\_SEARCH\_SOURCETYPE] LED  
 [\_SEARCH\_APPLICATION] INDOOR  
 [\_SEARCH\_MOUNTING] SURFACE

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6714
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	50.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.77 ft
Luminous Width (90-270)	1.77 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3555	3475	3435
55	2971	2857	2808
65	2457	2351	2329
75	2086	2041	2170
85	2168	2197	2551

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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>	3068.050	3068.050	3068.050	3068.050	3068.050
<b>5</b>	2995.514	2995.514	2991.528	2989.934	2991.528
<b>10</b>	2947.688	2943.702	2942.108	2943.702	2942.108
<b>15</b>	2804.209	2800.224	2797.035	2797.035	2797.035
<b>20</b>	2731.673	2722.905	2722.905	2720.513	2715.731
<b>25</b>	2502.904	2501.310	2494.136	2490.948	2494.136
<b>30</b>	2279.715	2276.527	2267.759	2262.179	2263.773
<b>35</b>	2057.323	2050.149	2037.396	2031.816	2031.816
<b>40</b>	1814.207	1802.250	1784.714	1768.772	1768.772
<b>45</b>	1559.134	1547.177	1524.061	1506.525	1506.525
<b>50</b>	1292.104	1280.148	1257.032	1239.496	1239.496
<b>55</b>	1056.959	1039.423	1016.307	996.379	998.770
<b>60</b>	835.364	817.828	798.697	785.944	787.538
<b>65</b>	644.059	628.117	616.161	610.581	610.581
<b>70</b>	487.030	474.276	463.914	471.088	478.262
<b>75</b>	334.783	327.609	327.609	337.972	348.334
<b>80</b>	223.189	223.189	223.189	237.537	247.899
<b>85</b>	117.174	117.174	118.768	134.710	137.899
<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	1080.47	N.A.	16.10
0-30	2230.93	N.A.	33.20
0-40	3504.33	N.A.	52.20
0-60	5598.81	N.A.	83.40
0-80	6583.52	N.A.	98.10
0-90	6713.92	N.A.	100.00
10-90	6429.11	N.A.	95.80
20-40	2423.86	N.A.	36.10
20-50	3600.97	N.A.	53.60
40-70	2717.55	N.A.	40.50
60-80	984.71	N.A.	14.70
70-80	361.64	N.A.	5.40
80-90	130.40	N.A.	1.90
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	6713.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	284.81
10-20	795.66
20-30	1150.46
30-40	1273.39
40-50	1177.11
50-60	917.37
60-70	623.07
70-80	361.64
80-90	130.40
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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	68	90	81	74	68	78	72	67	75	70	65	73	68	64	62
4	85	74	65	59	83	72	64	59	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42
7	68	55	46	41	66	54	46	40	52	45	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	41	34	30	40	34	30	28

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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

X=2H	Y=2H	15.2	16.8	15.6	17.1	17.4	UGR Viewed Endwise	14.9	16.5	15.3	16.8	17.1
	3H	16.8	18.2	17.2	18.5	18.9		16.5	17.9	16.9	18.2	18.6
	4H	17.3	18.7	17.7	19.0	19.4		17.2	18.5	17.6	18.8	19.2
	6H	17.8	19.1	18.3	19.4	19.8		17.8	19.0	18.2	19.4	19.8
	8H	18.1	19.2	18.5	19.6	20.0		18.1	19.2	18.5	19.6	20.0
	12H	18.2	19.3	18.6	19.7	20.1		18.3	19.4	18.7	19.8	20.2

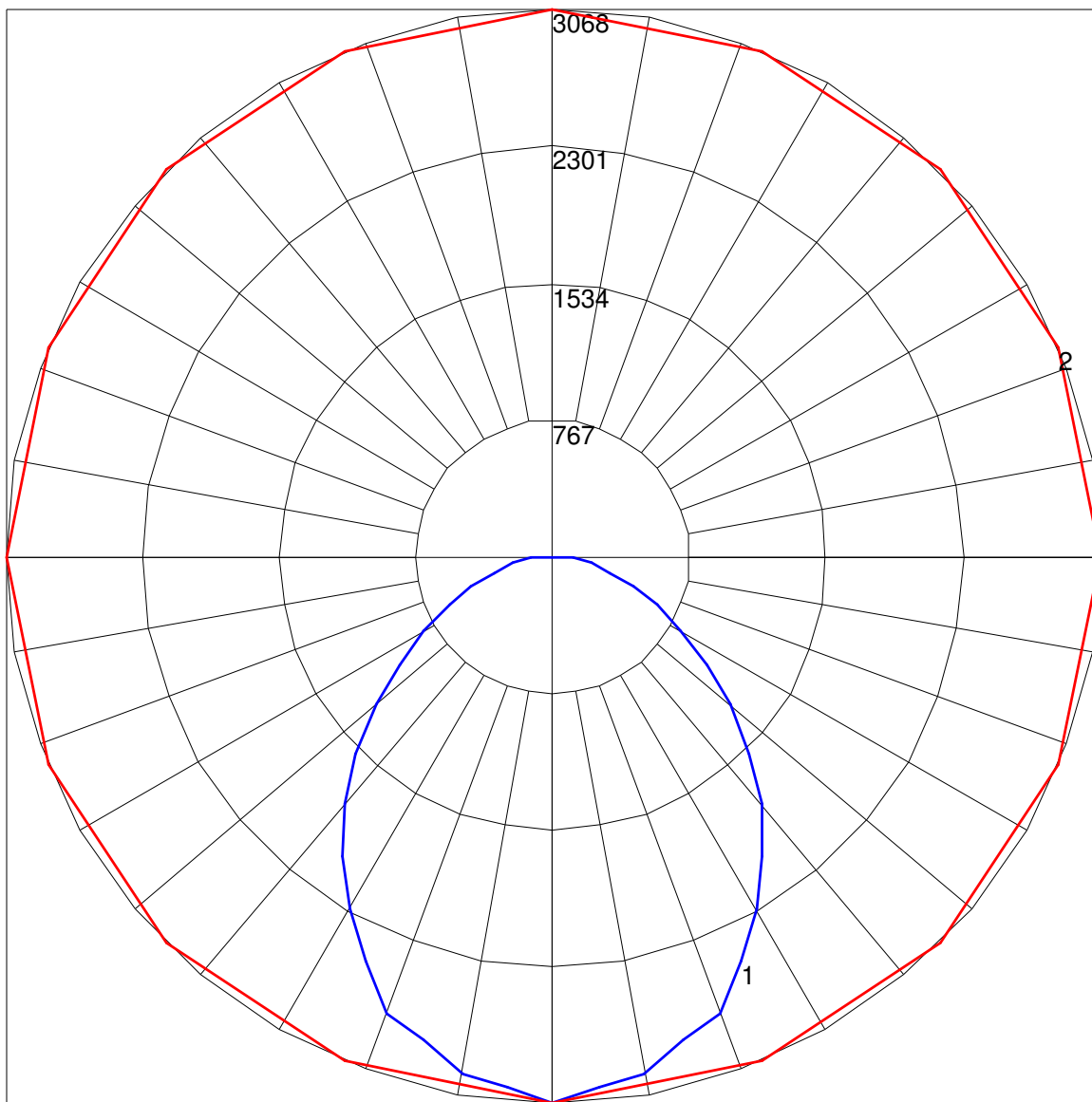
4H	2H	15.7	17.0	16.1	17.4	17.7	15.4	16.8	15.8	17.1	17.5
	3H	17.5	18.6	17.9	19.0	19.4	17.3	18.4	17.7	18.8	19.2
	4H	18.2	19.2	18.6	19.6	20.0	18.1	19.1	18.5	19.5	19.9
	6H	18.8	19.7	19.3	20.1	20.6	18.8	19.7	19.3	20.2	20.6
	8H	19.1	19.9	19.6	20.4	20.8	19.2	20.0	19.6	20.4	20.9
	12H	19.3	20.1	19.8	20.5	21.0	19.5	20.2	20.0	20.7	21.2

8H	4H	18.5	19.3	18.9	19.7	20.2	18.4	19.2	18.8	19.6	20.1
	6H	19.3	19.9	19.8	20.4	20.9	19.3	20.0	19.8	20.5	20.9
	8H	19.6	20.2	20.2	20.7	21.2	19.7	20.3	20.3	20.9	21.3
	12H	20.0	20.5	20.5	21.0	21.6	20.2	20.7	20.7	21.2	21.8

12H	4H	18.5	19.2	19.0	19.7	20.2	18.4	19.1	18.9	19.6	20.1
	6H	19.4	20.0	19.9	20.4	21.0	19.4	20.0	19.9	20.4	21.0
	8H	19.8	20.3	20.3	20.8	21.4	19.9	20.4	20.4	20.9	21.5

Maximum UGR = 21.8

POLAR GRAPH



Maximum Candela = 3068.05 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.)