



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 12-4-P31-835-SAF12125-POE X.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST]GEN FROM BALLABS TEST NO. 18637.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIE, INC  
 [ISSUE DATE] 02-APRIL-2019  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] 2x4'WHITE REFL SURFACE MOUNT LUMINAIRE  
 [MORE] ARRAYS ON INTERNAL WHITE REFLS w/PAT12 LENS (PRISMS DOWN)  
 [LUMCAT] 12-4-P31-835-SAF12125-POE x  
 [LAMPCAT] HLM 80 CRI 3500K 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	3152
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	25
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	1669	1631	1613
55	1395	1341	1318
65	1154	1104	1094
75	979	958	1019
85	1018	1032	1198

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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>	1440.348	1440.348	1440.348	1440.348	1440.348
<b>5</b>	1406.294	1406.294	1404.423	1403.675	1404.423
<b>10</b>	1383.841	1381.970	1381.222	1381.970	1381.222
<b>15</b>	1316.483	1314.612	1313.115	1313.115	1313.115
<b>20</b>	1282.430	1278.313	1278.313	1277.191	1274.945
<b>25</b>	1175.030	1174.282	1170.914	1169.417	1170.914
<b>30</b>	1070.251	1068.754	1064.637	1062.018	1062.766
<b>35</b>	965.845	962.477	956.490	953.870	953.870
<b>40</b>	851.710	846.097	837.864	830.380	830.380
<b>45</b>	731.962	726.348	715.496	707.263	707.263
<b>50</b>	606.600	600.987	590.135	581.902	581.902
<b>55</b>	496.207	487.974	477.122	467.767	468.889
<b>60</b>	392.176	383.943	374.962	368.974	369.723
<b>65</b>	302.364	294.880	289.267	286.648	286.648
<b>70</b>	228.644	222.657	217.792	221.160	224.528
<b>75</b>	157.170	153.802	153.802	158.667	163.531
<b>80</b>	104.780	104.780	104.780	111.516	116.380
<b>85</b>	55.009	55.009	55.758	63.242	64.739
<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	507.24	N.A.	16.10
0-30	1047.35	N.A.	33.20
0-40	1645.16	N.A.	52.20
0-60	2628.45	N.A.	83.40
0-80	3090.74	N.A.	98.10
0-90	3151.96	N.A.	100.00
10-90	3018.25	N.A.	95.80
20-40	1137.92	N.A.	36.10
20-50	1690.53	N.A.	53.60
40-70	1275.8	N.A.	40.50
60-80	462.29	N.A.	14.70
70-80	169.78	N.A.	5.40
80-90	61.22	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	3151.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	133.71
10-20	373.54
20-30	540.10
30-40	597.82
40-50	552.61
50-60	430.68
60-70	292.51
70-80	169.78
80-90	61.22
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

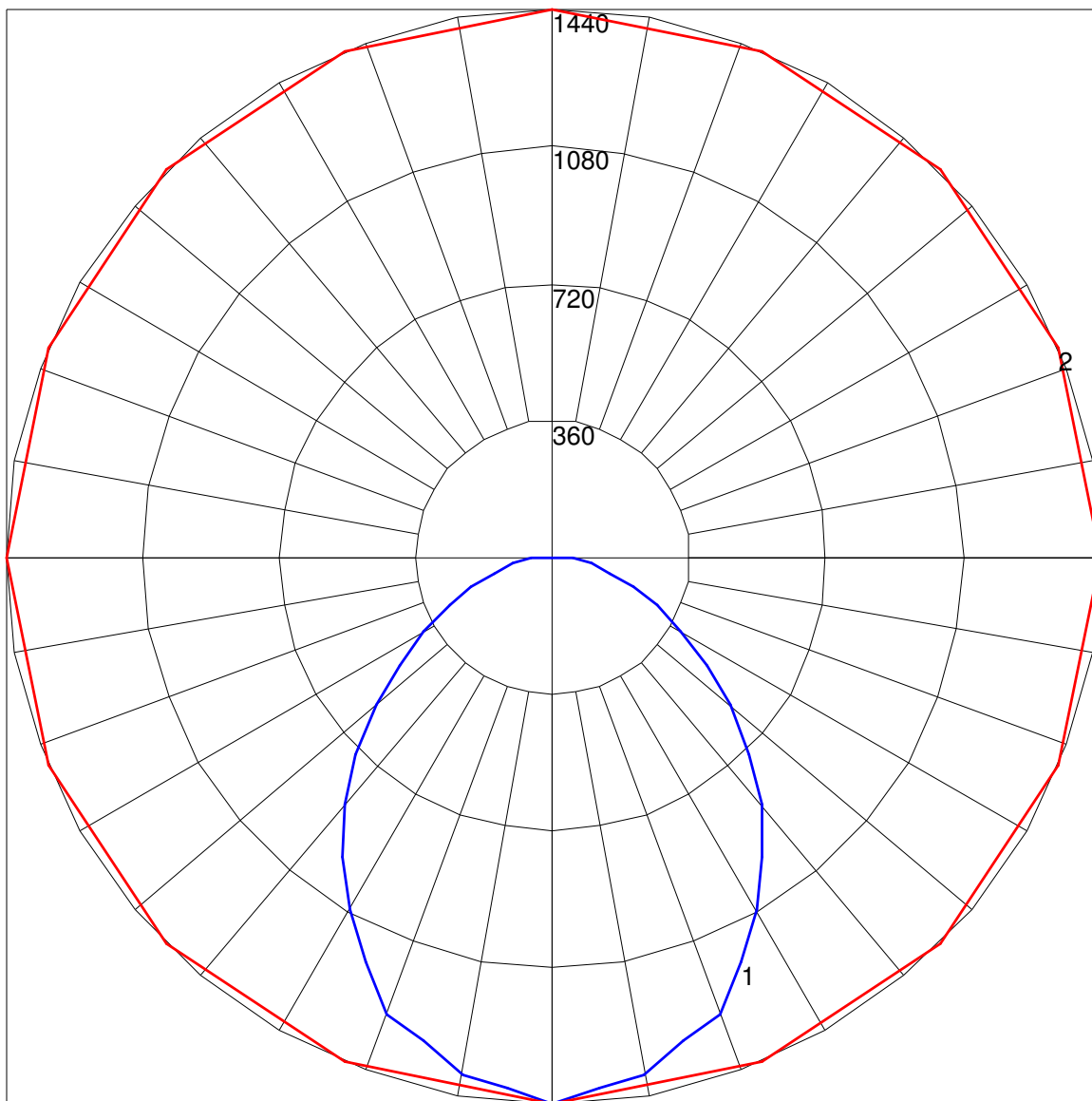
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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

POLAR GRAPH



Maximum Candela = 1440.348 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.)