



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 12-2-P30-835-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] 11-FEB-2015  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] 2x2' WHITE REFL SURFACE MOUNT LUMINAIRE  
 [MORE] ARRAYS ON INTERNAL WHITE REFLS w/PAT12 LENS (PRISMS DOWN)  
 [LUMCAT] 12-2-P30-835-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	3245
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
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)	1.78 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	3635	3554	3513
55	3038	2921	2871
65	2513	2404	2382
75	2133	2087	2219
85	2217	2247	2609

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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>	1482.845	1482.845	1482.845	1482.845	1482.845
<b>5</b>	1447.787	1447.787	1445.861	1445.090	1445.861
<b>10</b>	1424.672	1422.746	1421.975	1422.746	1421.975
<b>15</b>	1355.326	1353.400	1351.859	1351.859	1351.859
<b>20</b>	1320.268	1316.030	1316.030	1314.874	1312.563
<b>25</b>	1209.700	1208.929	1205.462	1203.921	1205.462
<b>30</b>	1101.828	1100.287	1096.050	1093.353	1094.123
<b>35</b>	994.342	990.875	984.711	982.014	982.014
<b>40</b>	876.840	871.061	862.585	854.880	854.880
<b>45</b>	753.558	747.779	736.607	728.131	728.131
<b>50</b>	624.498	618.719	607.547	599.071	599.071
<b>55</b>	510.848	502.372	491.200	481.568	482.724
<b>60</b>	403.747	395.271	386.025	379.861	380.632
<b>65</b>	311.286	303.581	297.802	295.105	295.105
<b>70</b>	235.391	229.227	224.218	227.686	231.153
<b>75</b>	161.807	158.340	158.340	163.348	168.356
<b>80</b>	107.871	107.871	107.871	114.806	119.814
<b>85</b>	56.632	56.632	57.403	65.108	66.649
<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	522.21	N.A.	16.10
0-30	1078.25	N.A.	33.20
0-40	1693.71	N.A.	52.20
0-60	2706.01	N.A.	83.40
0-80	3181.94	N.A.	98.10
0-90	3244.96	N.A.	100.00
10-90	3107.31	N.A.	95.80
20-40	1171.49	N.A.	36.10
20-50	1740.41	N.A.	53.60
40-70	1313.44	N.A.	40.50
60-80	475.93	N.A.	14.70
70-80	174.79	N.A.	5.40
80-90	63.03	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	3244.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	137.65
10-20	384.56
20-30	556.04
30-40	615.45
40-50	568.92
50-60	443.38
60-70	301.14
70-80	174.79
80-90	63.03
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

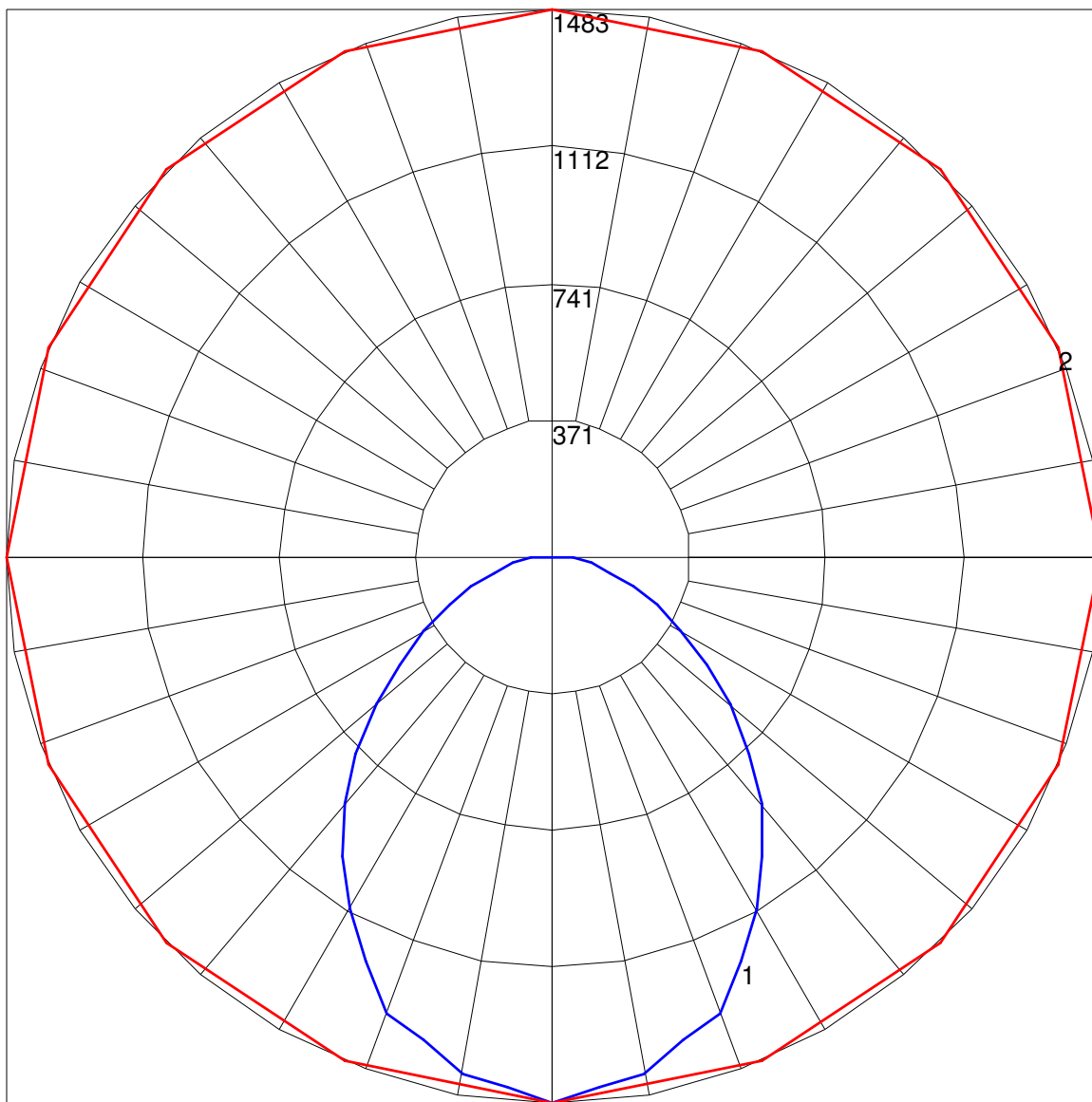
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1482.845 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.)