



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 12-4-P62-835-SAF12125-POE.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-P62-835-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	6233
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	50
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	3300	3226	3189
55	2758	2652	2606
65	2281	2182	2163
75	1936	1895	2015
85	2012	2040	2368

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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>
0	2848.251	2848.251	2848.251	2848.251	2848.251
5	2780.911	2780.911	2777.211	2775.731	2777.211
10	2736.511	2732.811	2731.331	2732.811	2731.331
15	2603.312	2599.612	2596.652	2596.652	2596.652
20	2535.972	2527.832	2527.832	2525.612	2521.172
25	2323.593	2322.113	2315.453	2312.493	2315.453
30	2116.393	2113.433	2105.293	2100.113	2101.593
35	1909.934	1903.274	1891.434	1886.254	1886.254
40	1684.235	1673.135	1656.855	1642.055	1642.055
45	1447.435	1436.335	1414.875	1398.596	1398.596
50	1199.536	1188.436	1166.976	1150.696	1150.696
55	981.237	964.957	943.497	924.997	927.217
60	775.518	759.238	741.478	729.638	731.118
65	597.918	583.118	572.018	566.838	566.838
70	452.139	440.299	430.679	437.339	443.999
75	310.799	304.139	304.139	313.759	323.379
80	207.199	207.199	207.199	220.519	230.139
85	108.780	108.780	110.260	125.060	128.020
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1003.06	N.A.	16.10
0-30	2071.11	N.A.	33.20
0-40	3253.27	N.A.	52.20
0-60	5197.7	N.A.	83.40
0-80	6111.87	N.A.	98.10
0-90	6232.93	N.A.	100.00
10-90	5968.52	N.A.	95.80
20-40	2250.21	N.A.	36.10
20-50	3342.99	N.A.	53.60
40-70	2522.86	N.A.	40.50
60-80	914.17	N.A.	14.70
70-80	335.73	N.A.	5.40
80-90	121.06	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	6232.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	264.41
10-20	738.66
20-30	1068.04
30-40	1182.17
40-50	1092.78
50-60	851.65
60-70	578.43
70-80	335.73
80-90	121.06
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

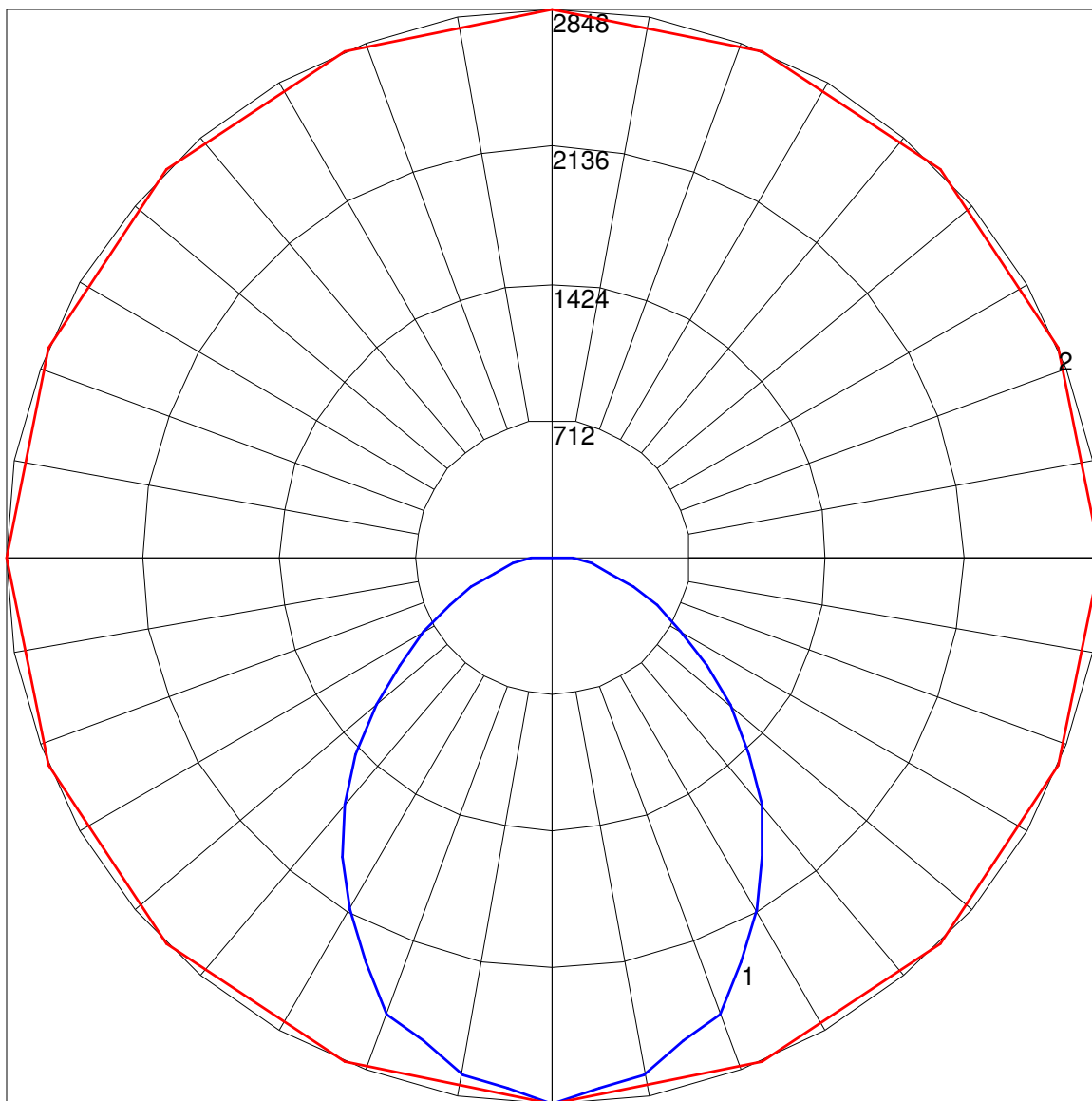
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2848.251 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.)