



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 12-4-P62-8TW-SAF12125-POE N_4000K.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-P62-8TW-SAF12125-POE N-4000k
 [LAMPCAT] HLM 80 CRI TUNABLE WHITE 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	6240
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	3304	3230	3193
55	2761	2655	2609
65	2284	2185	2165
75	1938	1897	2017
85	2015	2042	2371

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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	2851.450	2851.450	2851.450	2851.450	2851.450
5	2784.034	2784.034	2780.330	2778.848	2780.330
10	2739.585	2735.880	2734.399	2735.880	2734.399
15	2606.235	2602.531	2599.568	2599.568	2599.568
20	2538.820	2530.671	2530.671	2528.448	2524.003
25	2326.202	2324.720	2318.053	2315.090	2318.053
30	2118.770	2115.807	2107.658	2102.472	2103.953
35	1912.079	1905.411	1893.558	1888.372	1888.372
40	1686.126	1675.014	1658.715	1643.899	1643.899
45	1449.061	1437.948	1416.464	1400.166	1400.166
50	1200.883	1189.771	1168.287	1151.989	1151.989
55	982.339	966.041	944.557	926.036	928.258
60	776.388	760.090	742.310	730.457	731.939
65	598.590	583.773	572.661	567.475	567.475
70	452.646	440.793	431.162	437.830	444.497
75	311.148	304.481	304.481	314.111	323.742
80	207.432	207.432	207.432	220.767	230.398
85	108.902	108.902	110.383	125.200	128.163
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1004.19	N.A.	16.10
0-30	2073.43	N.A.	33.20
0-40	3256.92	N.A.	52.20
0-60	5203.54	N.A.	83.40
0-80	6118.73	N.A.	98.10
0-90	6239.93	N.A.	100.00
10-90	5975.22	N.A.	95.80
20-40	2252.74	N.A.	36.10
20-50	3346.74	N.A.	53.60
40-70	2525.7	N.A.	40.50
60-80	915.19	N.A.	14.70
70-80	336.11	N.A.	5.40
80-90	121.20	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	6239.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	264.70
10-20	739.49
20-30	1069.24
30-40	1183.49
40-50	1094.01
50-60	852.61
60-70	579.08
70-80	336.11
80-90	121.20
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

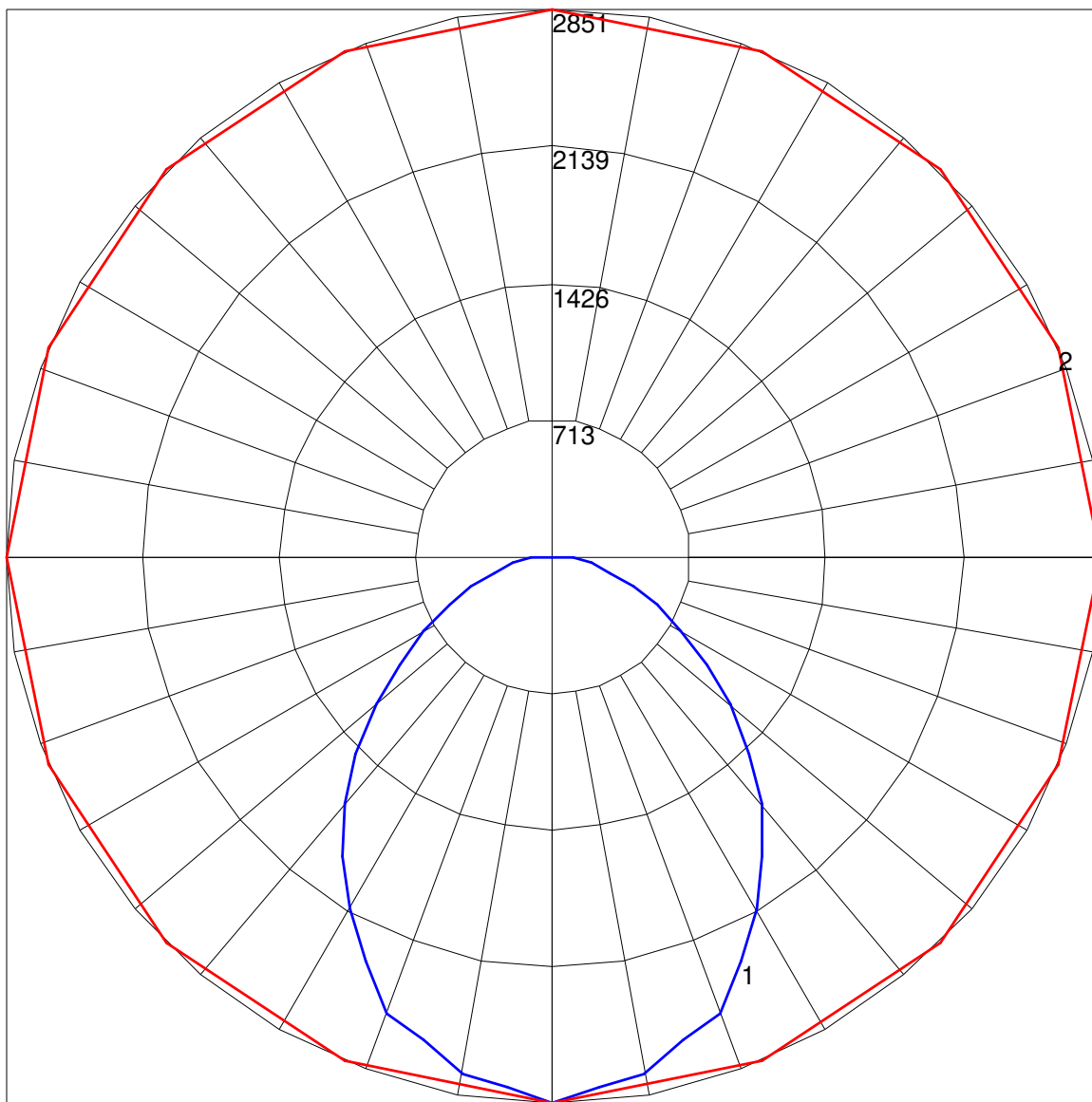
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2851.45 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.)