



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 12-4-P31-8TW-SAF12125-POE X_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
 [ISSUEDATE] 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-P31-8TW-SAF12125-POE x-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	3130
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
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	1657	1620	1601
55	1385	1332	1309
65	1146	1096	1086
75	972	951	1012
85	1011	1024	1189

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 12-4-P31-8TW-SAF12125-POE X_4000K.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1430.295	1430.295	1430.295	1430.295	1430.295
5	1396.479	1396.479	1394.621	1393.878	1394.621
10	1374.183	1372.325	1371.582	1372.325	1371.582
15	1307.294	1305.436	1303.950	1303.950	1303.950
20	1273.479	1269.391	1269.391	1268.276	1266.047
25	1166.829	1166.086	1162.741	1161.255	1162.741
30	1062.781	1061.294	1057.207	1054.605	1055.349
35	959.104	955.759	949.814	947.213	947.213
40	845.765	840.191	832.016	824.584	824.584
45	726.853	721.279	710.502	702.327	702.327
50	602.366	596.792	586.016	577.841	577.841
55	492.744	484.569	473.792	464.502	465.617
60	389.438	381.263	372.345	366.399	367.142
65	300.254	292.822	287.248	284.647	284.647
70	227.049	221.103	216.272	219.617	222.961
75	156.073	152.728	152.728	157.559	162.390
80	104.048	104.048	104.048	110.737	115.568
85	54.625	54.625	55.369	62.801	64.287
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 12-4-P31-8TW-SAF12125-POE X_4000K.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	503.70	N.A.	16.10
0-30	1040.04	N.A.	33.20
0-40	1633.68	N.A.	52.20
0-60	2610.11	N.A.	83.40
0-80	3069.17	N.A.	98.10
0-90	3129.96	N.A.	100.00
10-90	2997.19	N.A.	95.80
20-40	1129.98	N.A.	36.10
20-50	1678.73	N.A.	53.60
40-70	1266.9	N.A.	40.50
60-80	459.06	N.A.	14.70
70-80	168.59	N.A.	5.40
80-90	60.79	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	3129.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	132.78
10-20	370.93
20-30	536.33
30-40	593.64
40-50	548.76
50-60	427.67
60-70	290.47
70-80	168.59
80-90	60.79
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

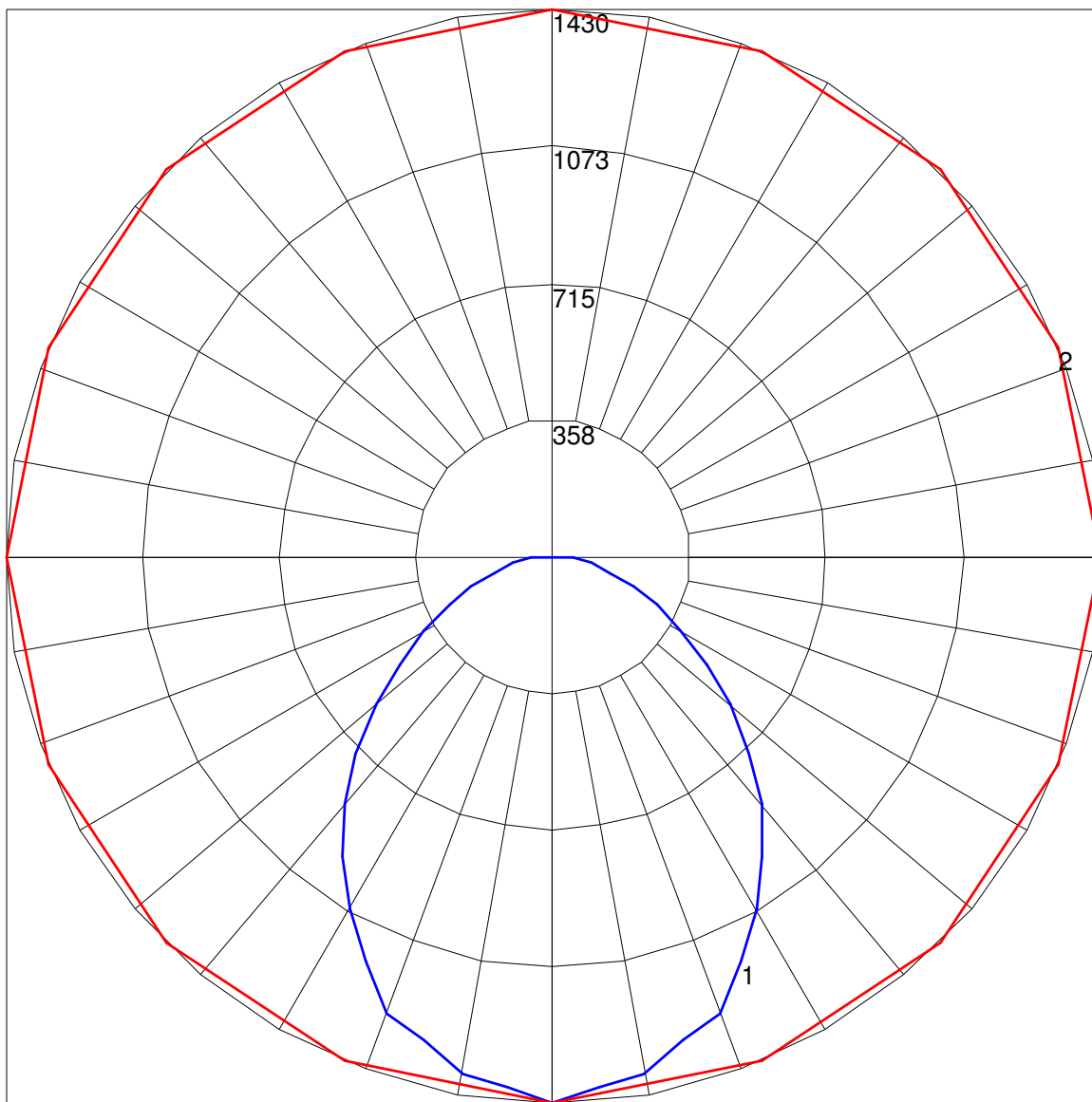
IES INDOOR REPORT
PHOTOMETRIC FILENAME : 12-4-P31-8TW-SAF12125-POE X_4000K.IES

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 = 1430.295 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.)