



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 11-4-P33-8TW-SAF12125-POE X\_4000K.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]GEN FROM BALLABS TEST NO. 18638.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUE DATE] 2-APRIL-2019  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] 1x4'SURFACE MNT LUMINAIRE w/WHITE REFL  
 [MORE] ARRAYS ON INTERNAL WHITE REFLS w/PAT12 LENS (PRISMS DOWN)  
 [LUMCAT] 11-4-P33-8TW-SAF12125-POE x-4000k  
 [LAMP CAT] 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	3010
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
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)	3.80 ft
Luminous Width (90-270)	0.77 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3811	3599	3425
55	3076	2821	2611
65	2523	2267	2157
75	2109	1978	2060
85	2184	2184	2451

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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>	1394.148	1394.148	1394.148	1394.148	1394.148
<b>5</b>	1384.934	1384.358	1382.055	1382.055	1382.055
<b>10</b>	1360.172	1359.020	1357.293	1357.293	1356.717
<b>15</b>	1295.100	1294.524	1292.797	1291.069	1289.342
<b>20</b>	1266.883	1264.580	1257.670	1254.790	1253.639
<b>25</b>	1149.985	1145.954	1137.892	1132.133	1129.254
<b>30</b>	1053.817	1048.058	1035.389	1024.448	1017.538
<b>35</b>	958.225	950.163	933.463	916.763	908.701
<b>40</b>	837.295	826.929	805.047	780.285	775.102
<b>45</b>	733.641	720.972	692.755	665.114	659.355
<b>50</b>	598.890	585.646	558.005	531.515	523.453
<b>55</b>	480.264	466.443	440.530	416.344	407.706
<b>60</b>	373.731	359.910	338.028	318.448	313.842
<b>65</b>	290.231	279.290	260.863	249.922	248.194
<b>70</b>	213.643	205.581	194.064	192.336	194.064
<b>75</b>	148.571	144.540	139.357	142.812	145.116
<b>80</b>	99.623	97.320	96.744	101.927	103.654
<b>85</b>	51.827	51.251	51.827	58.161	58.161
<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	498.81	N.A.	16.60
0-30	1025.56	N.A.	34.10
0-40	1605.55	N.A.	53.30
0-60	2534.53	N.A.	84.20
0-80	2953.45	N.A.	98.10
0-90	3009.95	N.A.	100.00
10-90	2878.7	N.A.	95.60
20-40	1106.74	N.A.	36.80
20-50	1637.36	N.A.	54.40
40-70	1193.45	N.A.	39.70
60-80	418.93	N.A.	13.90
70-80	154.45	N.A.	5.10
80-90	56.50	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	3009.95	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	131.25
10-20	367.55
20-30	526.75
30-40	579.99
40-50	530.62
50-60	398.36
60-70	264.48
70-80	154.45
80-90	56.50
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

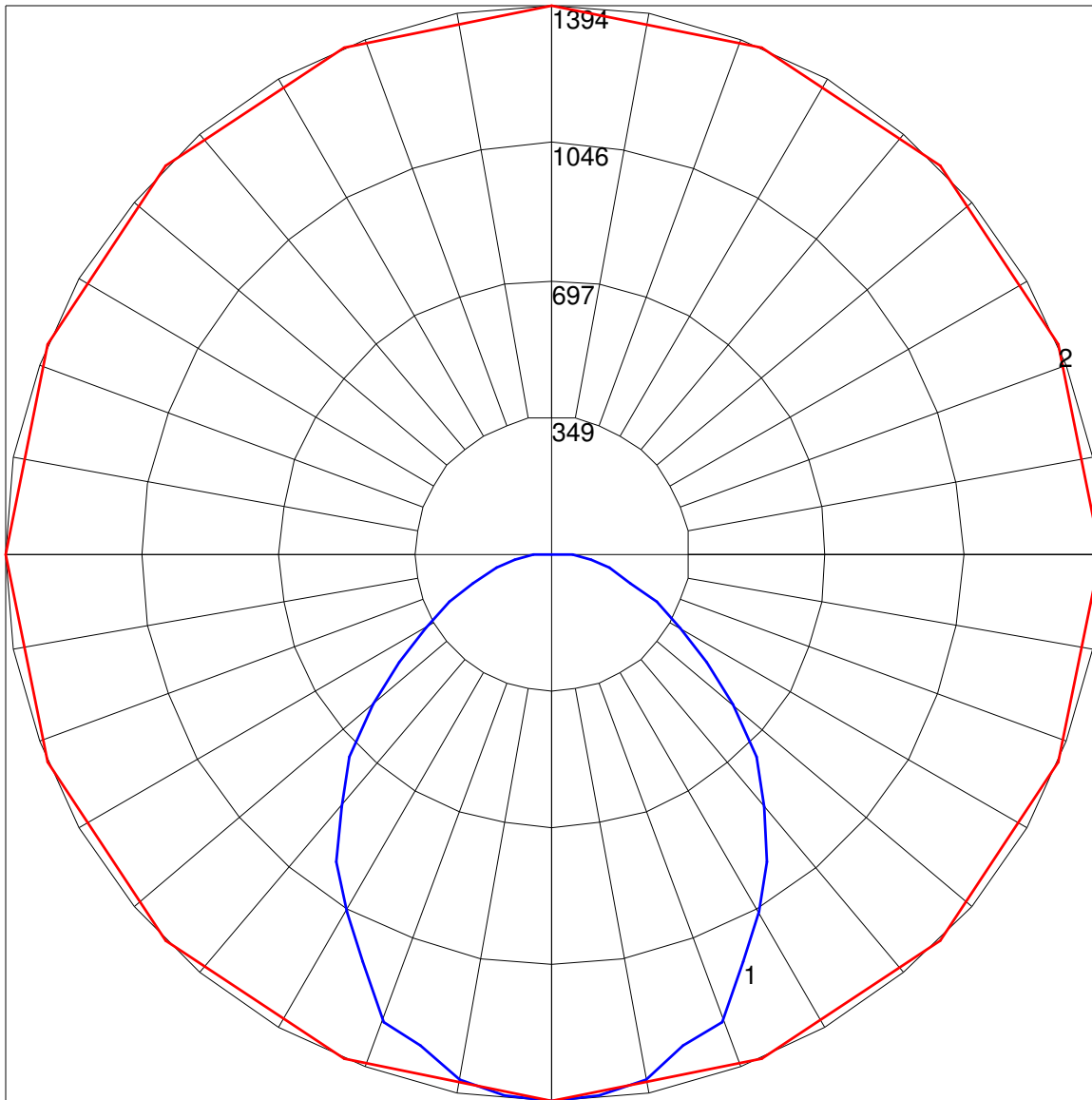
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	86
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	56	51	60	55	50	48
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	66	55	47	41	53	46	41	52	45	41	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	31	40	34	30	29

POLAR GRAPH



Maximum Candela = 1394.148 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.)