



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 12-2-P30-8TW-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
 [ISSUE DATE] 2-APR-2019
 [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-P30-8TW-SAF12125-POE x-4000k
 [LAMPCAT] HLM 80 CRI TUANBLE 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	3034
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
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	3399	3323	3284
55	2841	2731	2684
65	2349	2248	2227
75	1994	1951	2075
85	2073	2101	2439

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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	1386.426	1386.426	1386.426	1386.426	1386.426
5	1353.647	1353.647	1351.846	1351.126	1351.846
10	1332.035	1330.234	1329.514	1330.234	1329.514
15	1267.198	1265.397	1263.957	1263.957	1263.957
20	1234.420	1230.458	1230.458	1229.377	1227.216
25	1131.041	1130.321	1127.079	1125.638	1127.079
30	1030.184	1028.743	1024.781	1022.259	1022.980
35	929.687	926.445	920.682	918.160	918.160
40	819.825	814.422	806.497	799.293	799.293
45	704.559	699.156	688.710	680.786	680.786
50	583.891	578.488	568.042	560.118	560.118
55	477.631	469.706	459.260	450.255	451.336
60	377.494	369.569	360.925	355.161	355.882
65	291.045	283.841	278.438	275.916	275.916
70	220.085	214.321	209.639	212.881	216.123
75	151.286	148.044	148.044	152.727	157.409
80	100.857	100.857	100.857	107.341	112.024
85	52.950	52.950	53.670	60.875	62.315
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	488.26	N.A.	16.10
0-30	1008.14	N.A.	33.20
0-40	1583.58	N.A.	52.20
0-60	2530.05	N.A.	83.40
0-80	2975.04	N.A.	98.10
0-90	3033.96	N.A.	100.00
10-90	2905.26	N.A.	95.80
20-40	1095.32	N.A.	36.10
20-50	1627.25	N.A.	53.60
40-70	1228.04	N.A.	40.50
60-80	444.98	N.A.	14.70
70-80	163.42	N.A.	5.40
80-90	58.93	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	3033.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	128.70
10-20	359.55
20-30	519.88
30-40	575.44
40-50	531.93
50-60	414.55
60-70	281.56
70-80	163.42
80-90	58.93
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

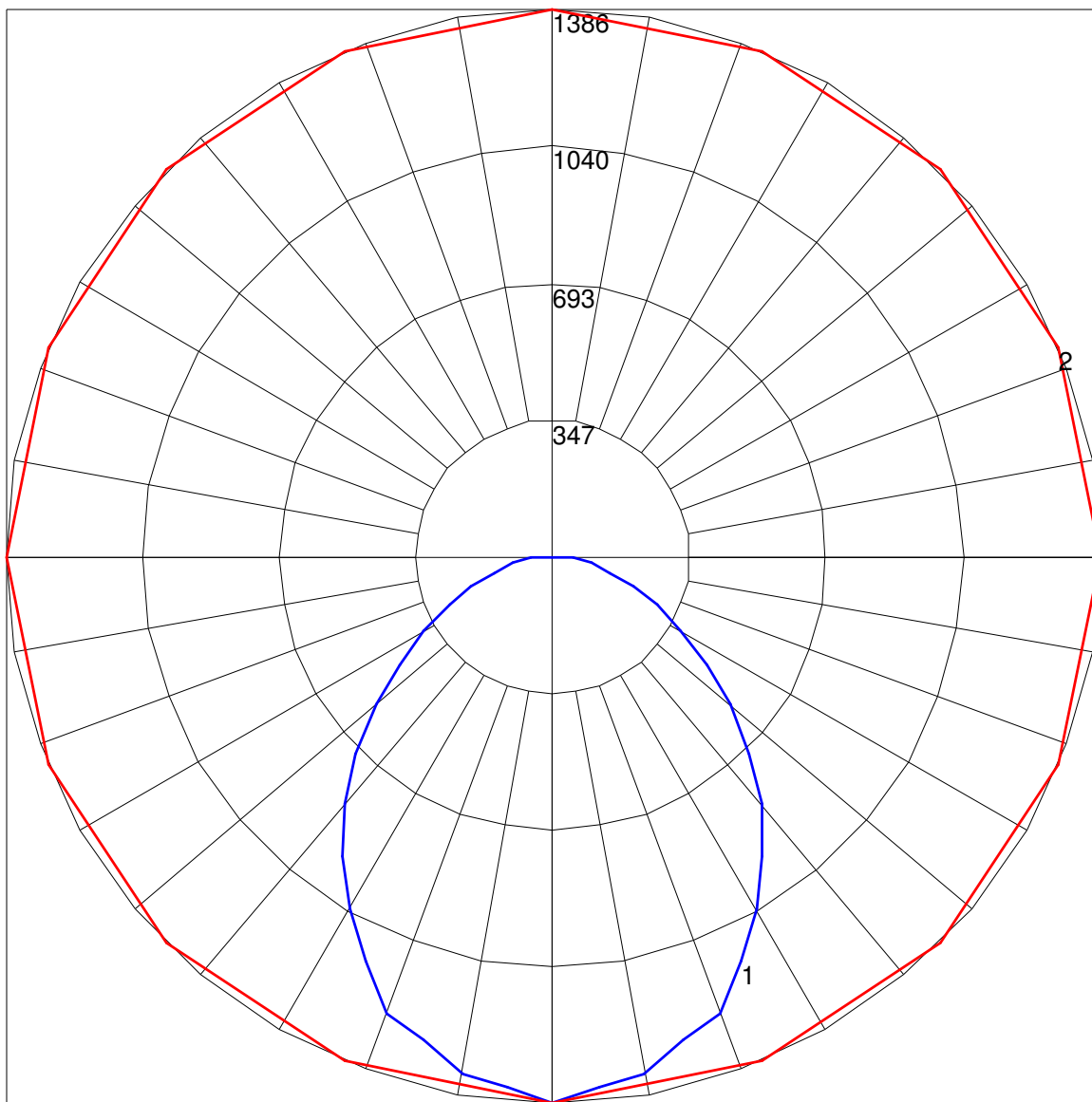
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1386.426 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.)