



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75-4-P34-8TW-POEN 4000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 17875.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 25-OCT-2019

[MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 4' PoE STRIP w/WHITE REFLECTOR

[LUMCAT] 75-4-P34/8TW-PoEN 4000k

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3420
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	167
Total Luminaire Watts	20.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.62 ft
Luminous Width (90-270)	0.22 ft
Luminous Height	0.01 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15534	14858	14659
55	15143	14325	14033
65	14114	13003	12600
75	11900	10516	10085
85	6242	5941	4905

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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	1161.143	1161.143	1161.143	1161.143	1161.143
5	1169.628	1162.355	1157.507	1154.275	1153.063
10	1156.699	1149.427	1143.771	1140.539	1138.922
15	1137.306	1128.014	1122.358	1117.510	1119.126
20	1106.601	1098.925	1092.461	1087.612	1090.441
25	1067.816	1061.351	1052.059	1048.019	1046.403
30	1024.182	1014.889	1004.385	1001.153	992.669
35	968.428	960.751	948.631	946.207	937.318
40	903.785	887.624	881.160	876.716	874.292
45	828.234	808.437	804.397	800.761	797.933
50	744.602	726.422	723.190	721.573	712.281
55	655.315	636.326	633.498	633.498	625.418
60	558.351	541.382	533.302	536.938	524.817
65	450.478	437.954	428.662	436.338	420.177
70	341.394	325.637	320.789	328.869	316.345
75	233.118	217.765	217.765	217.765	212.917
80	124.033	121.609	121.609	119.589	114.741
85	41.614	43.634	46.462	44.442	40.402
90	3.636	3.636	5.656	3.636	3.636
95	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	427.61	N.A.	12.50
0-30	913.93	N.A.	26.70
0-40	1508.74	N.A.	44.10
0-60	2698.5	N.A.	78.90
0-80	3360.96	N.A.	98.30
0-90	3418.79	N.A.	100.00
10-90	3308.62	N.A.	96.70
20-40	1081.13	N.A.	31.60
20-50	1703.58	N.A.	49.80
40-70	1618.86	N.A.	47.30
60-80	662.46	N.A.	19.40
70-80	233.36	N.A.	6.80
80-90	57.83	N.A.	1.70
90-110	1.13	N.A.	0.00
90-120	1.13	N.A.	0.00
90-130	1.13	N.A.	0.00
90-150	1.13	N.A.	0.00
90-180	1.13	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3419.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	110.17
10-20	317.45
20-30	486.32
30-40	594.81
40-50	622.45
50-60	567.31
60-70	429.10
70-80	233.36
80-90	57.83
90-100	1.13
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	133	133	133	133	129	129	129	129	124	124	124	118	118	118	114	114	114	111
1	121	116	111	107	118	113	109	105	108	105	102	104	101	98	100	98	96	93
2	110	101	93	87	107	99	92	86	95	89	84	91	86	82	88	84	80	77
3	100	88	79	72	97	87	78	71	83	76	70	80	74	69	77	72	67	65
4	92	78	68	61	89	77	67	60	74	66	59	71	64	59	69	63	58	55
5	84	70	60	52	82	68	59	52	66	58	51	64	56	51	62	55	50	48
6	78	63	53	45	75	62	52	45	60	51	45	58	50	44	56	49	44	42
7	72	57	47	40	70	56	46	40	54	46	40	52	45	39	51	44	39	37
8	67	52	42	36	65	51	42	35	49	41	35	48	41	35	47	40	35	33
9	62	47	38	32	61	47	38	32	45	37	32	44	37	32	43	36	31	29
10	59	44	35	29	57	43	35	29	42	34	29	41	34	29	40	33	28	26

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UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	21.2	22.9	21.6	23.2	23.5	21.1	22.8	21.5	23.1	23.4
	3H	23.0	24.5	23.4	24.8	25.2	22.9	24.4	23.2	24.7	25.0
	4H	23.7	25.1	24.1	25.4	25.8	23.5	24.9	23.9	25.2	25.6
	6H	24.1	25.4	24.5	25.7	26.1	23.8	25.1	24.2	25.5	25.9
	8H	24.2	25.4	24.6	25.8	26.2	23.9	25.2	24.4	25.6	26.0
	12H	24.2	25.4	24.7	25.8	26.2	24.0	25.2	24.4	25.6	26.0

UGR Viewed Endwise

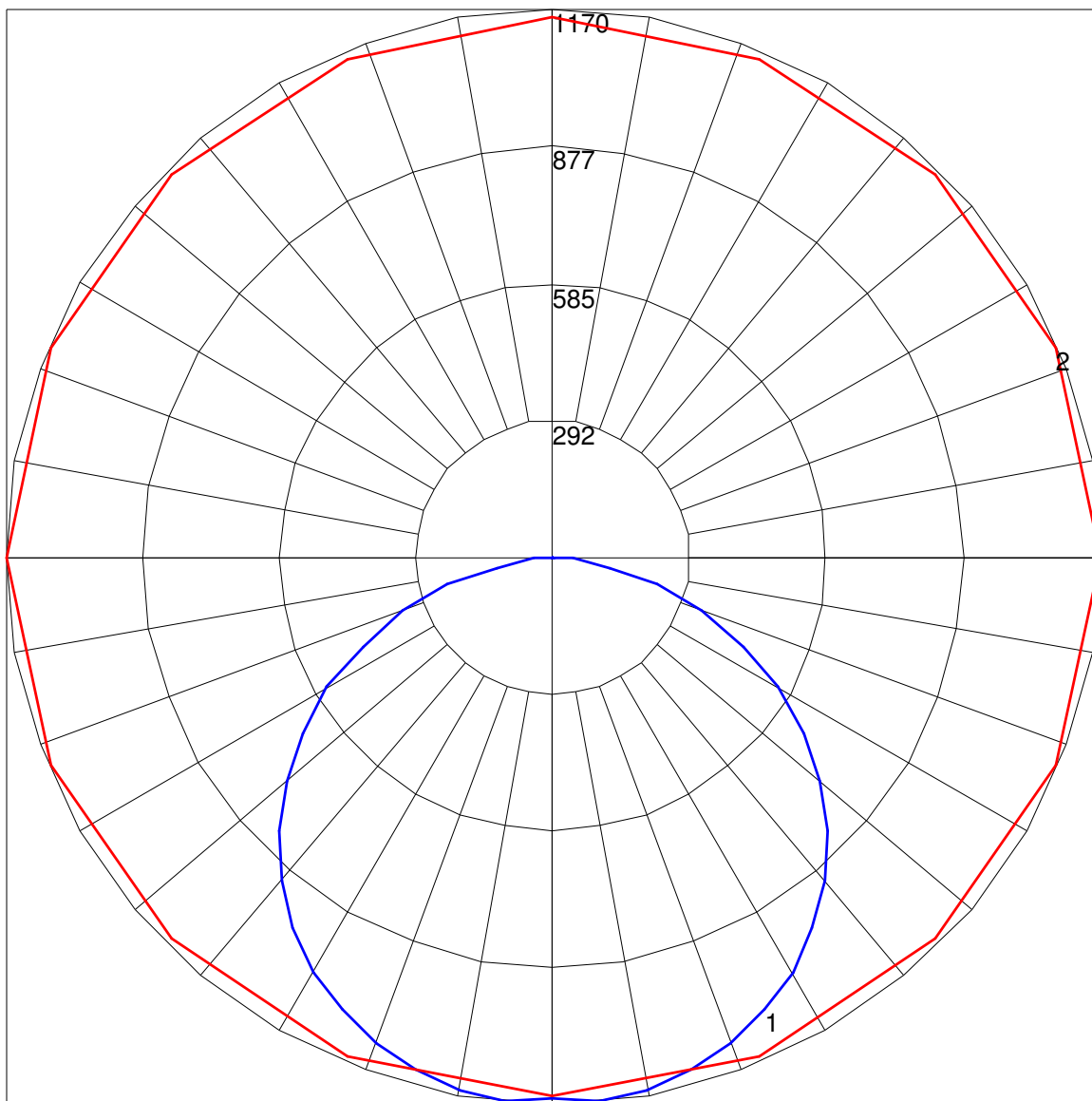
4H	2H	21.8	23.2	22.2	23.6	23.9	21.7	23.1	22.1	23.5	23.9
	3H	23.8	25.0	24.2	25.4	25.8	23.7	24.9	24.1	25.3	25.7
	4H	24.6	25.6	25.0	26.0	26.5	24.4	25.5	24.8	25.9	26.3
	6H	25.1	26.0	25.5	26.4	26.9	24.9	25.8	25.4	26.3	26.7
	8H	25.2	26.1	25.7	26.5	27.0	25.0	25.9	25.5	26.4	26.8
	12H	25.3	26.1	25.8	26.6	27.0	25.1	25.9	25.6	26.4	26.8

8H	4H	24.8	25.7	25.3	26.1	26.6	24.7	25.5	25.1	26.0	26.4
	6H	25.4	26.1	25.9	26.6	27.1	25.3	26.0	25.8	26.5	27.0
	8H	25.6	26.3	26.1	26.8	27.3	25.5	26.1	26.0	26.6	27.1
	12H	25.7	26.3	26.3	26.8	27.4	25.6	26.2	26.1	26.7	27.2

12H	4H	24.8	25.6	25.3	26.1	26.5	24.7	25.5	25.2	25.9	26.4
	6H	25.5	26.1	26.0	26.6	27.1	25.3	26.0	25.8	26.4	27.0
	8H	25.7	26.3	26.2	26.8	27.3	25.5	26.1	26.0	26.6	27.2

Maximum UGR = 27.4

POLAR GRAPH



Maximum Candela = 1169.628 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)