



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-P34-8TW-POE\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 19745.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 04-NOV-2019

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-4-P34-8TW-PoE

[\_SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] Indoor, Commercial, Industrial, Manufacturing, Utility, Warehouse, Linear

[\_SEARCH\_MOUNTING] Surface, Suspended

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3215
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	157
Total Luminaire Watts	20.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.72 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.08 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11578	9342	8833
55	9816	7832	7915
65	7708	6692	7190
75	5308	5470	6379
85	2371	4640	5592

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75S-4-P34-8TW-POE\_.IES**

**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1084.762	1084.762	1084.762	1084.762	1084.762
5	1094.092	1080.342	1079.851	1077.396	1064.628
10	1075.431	1063.155	1064.137	1061.191	1049.405
15	1045.477	1033.691	1036.637	1033.691	1023.870
20	995.388	986.549	995.388	990.968	980.656
25	933.514	930.076	937.933	937.442	922.219
30	865.256	866.729	875.568	875.568	856.908
35	781.775	793.560	797.980	799.453	780.302
40	690.928	708.606	704.678	712.535	702.713
45	602.045	617.759	616.777	631.018	628.563
50	511.198	525.439	536.734	560.796	565.706
55	417.896	435.574	460.619	496.466	512.671
60	329.995	351.602	394.325	438.521	459.636
65	245.532	279.907	333.433	384.013	405.619
70	168.435	213.613	271.068	326.067	351.602
75	107.052	150.266	215.086	270.086	295.621
80	58.437	100.177	168.926	219.015	242.586
85	18.660	61.383	128.168	172.855	194.953
90	0.000	39.776	97.722	139.462	154.685
95	0.000	36.339	91.338	127.677	136.516
100	0.000	34.375	84.954	116.382	124.239
105	0.000	31.428	79.552	107.543	115.400
110	0.000	29.464	74.151	100.668	108.525
115	0.000	27.009	67.767	94.284	101.650
120	0.000	23.080	60.892	85.445	94.284
125	0.000	19.152	54.999	78.079	85.936
130	0.000	15.714	47.633	69.731	75.133
135	0.000	14.241	38.303	60.401	65.803
140	0.000	11.786	29.955	50.580	55.981
145	0.000	9.330	23.080	39.285	44.687
150	0.000	6.875	17.678	29.955	34.375
155	0.000	5.402	14.241	21.607	25.044
160	0.000	0.000	10.312	15.714	17.678
165	0.000	0.000	6.875	11.294	12.277
170	0.000	0.000	0.000	6.875	7.366
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75S-4-P34-8TW-POE\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	393.79	N.A.	12.20
0-30	823.72	N.A.	25.60
0-40	1318.61	N.A.	41.00
0-60	2215.73	N.A.	68.90
0-80	2766.98	N.A.	86.10
0-90	2898.61	N.A.	90.20
10-90	2796.11	N.A.	87.00
20-40	924.82	N.A.	28.80
20-50	1404.82	N.A.	43.70
40-70	1225.02	N.A.	38.10
60-80	551.25	N.A.	17.10
70-80	223.34	N.A.	6.90
80-90	131.63	N.A.	4.10
90-110	161.96	N.A.	5.00
90-120	221.26	N.A.	6.90
90-130	264.94	N.A.	8.20
90-150	308.29	N.A.	9.60
90-180	316.41	N.A.	9.80
110-180	154.45	N.A.	4.80
0-180	3215.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	102.49
10-20	291.30
20-30	429.93
30-40	494.89
40-50	480.01
50-60	417.11
60-70	327.91
70-80	223.34
80-90	131.63
90-100	88.62
100-110	73.35
110-120	59.29
120-130	43.68
130-140	28.31
140-150	15.04
150-160	6.29
160-170	1.74
170-180	0.09

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75S-4-P34-8TW-POE\_.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	57	57	57	57	55	55	55	55	52	52	52	49	49	49	46	46	46	44
1	52	49	47	45	50	48	46	44	45	43	42	42	41	40	40	39	38	36
2	47	43	40	37	45	42	39	36	39	37	34	37	35	33	35	33	31	30
3	43	38	34	31	41	37	33	30	35	31	29	33	30	28	31	29	27	25
4	39	34	29	26	38	33	29	26	31	27	25	29	26	24	27	25	23	22
5	36	30	26	22	35	29	25	22	28	24	21	26	23	21	25	22	20	19
6	34	27	23	20	32	26	22	19	25	21	19	24	21	18	23	20	18	17
7	31	25	20	17	30	24	20	17	23	19	17	22	19	16	21	18	16	15
8	29	22	18	16	28	22	18	15	21	17	15	20	17	15	19	16	14	13
9	27	21	17	14	26	20	16	14	19	16	14	18	15	13	18	15	13	12
10	25	19	15	13	25	19	15	13	18	15	12	17	14	12	16	14	12	11

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75S-4-P34-8TW-POE\_.IES**

**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

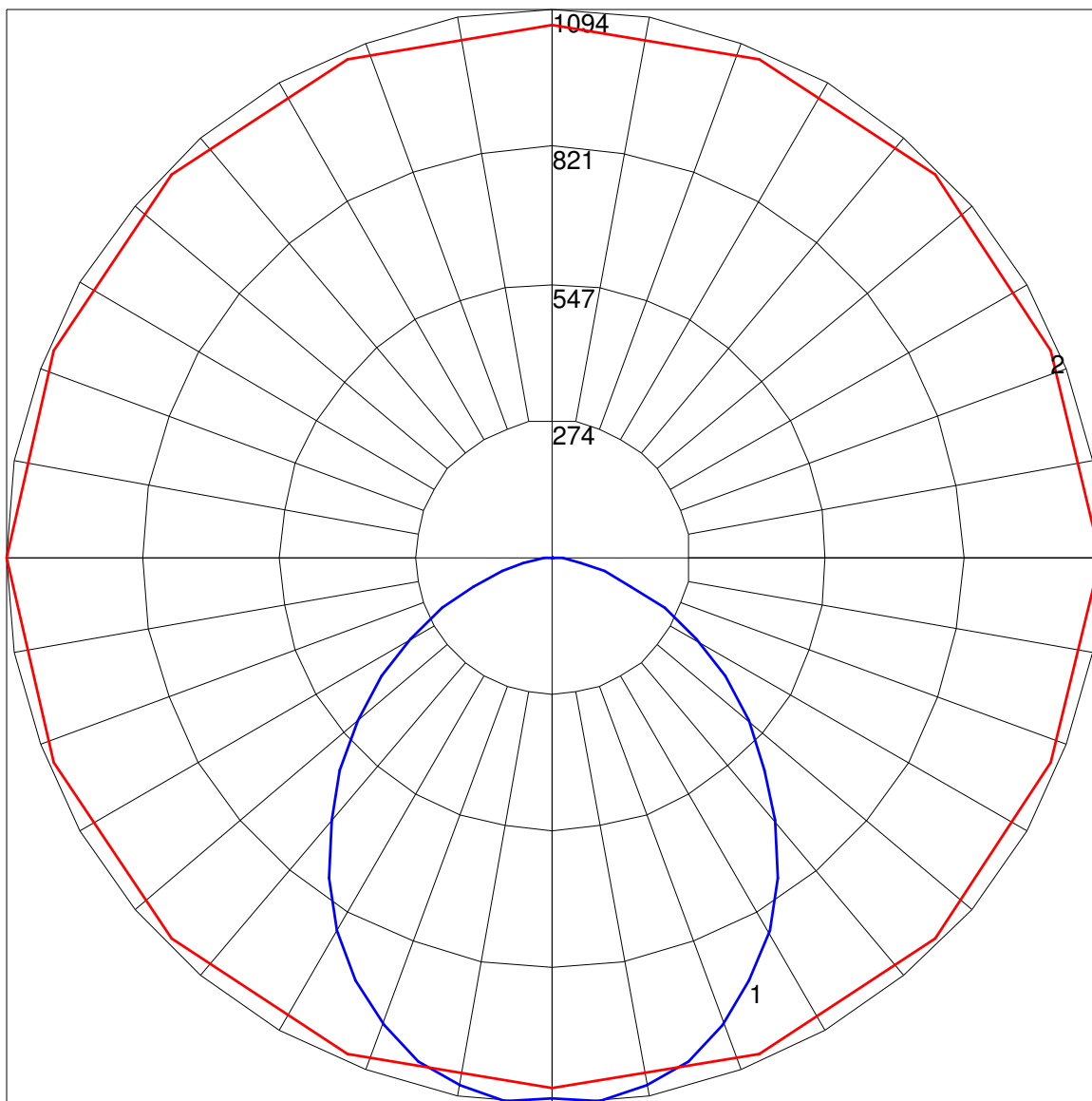
X=2H	Y=2H	20.5	21.9	21.0	22.4	23.0	21.8	23.3	22.4	23.8	24.3
	3H	21.9	23.2	22.5	23.7	24.3	24.2	25.5	24.8	26.0	26.6
	4H	22.4	23.6	22.9	24.1	24.7	25.4	26.6	25.9	27.1	27.7
	6H	22.6	23.8	23.2	24.3	24.9	26.5	27.6	27.1	28.2	28.8
	8H	22.7	23.8	23.3	24.4	25.0	27.1	28.2	27.7	28.7	29.4
	12H	22.7	23.8	23.3	24.3	25.0	27.7	28.7	28.3	29.3	30.0

UGR Viewed Endwise

4H	2H	21.1	22.3	21.7	22.9	23.5	22.2	23.4	22.7	23.9	24.6
	3H	22.7	23.8	23.3	24.4	25.0	24.8	25.8	25.4	26.4	27.0
	4H	23.3	24.3	23.9	24.8	25.5	26.1	27.0	26.7	27.6	28.3
	6H	23.7	24.6	24.3	25.2	25.8	27.4	28.2	28.0	28.8	29.5
	8H	23.8	24.6	24.5	25.2	25.9	28.1	28.9	28.7	29.5	30.2
	12H	23.9	24.6	24.5	25.3	25.9	28.8	29.5	29.5	30.2	30.9
8H	4H	23.8	24.5	24.4	25.1	25.8	26.2	27.0	26.8	27.6	28.3
	6H	24.3	25.0	25.0	25.6	26.3	27.7	28.4	28.4	29.0	29.7
	8H	24.5	25.1	25.2	25.8	26.5	28.5	29.1	29.2	29.8	30.5
	12H	24.7	25.2	25.3	25.8	26.6	29.4	29.9	30.1	30.6	31.4
12H	4H	23.8	24.5	24.5	25.2	25.9	26.2	26.9	26.8	27.6	28.3
	6H	24.5	25.1	25.2	25.7	26.5	27.7	28.3	28.4	28.9	29.7
	8H	24.8	25.3	25.4	25.9	26.7	28.6	29.1	29.2	29.8	30.5

Maximum UGR = 31.4

POLAR GRAPH



Maximum Candela = 1094.092 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.)