



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-P72-835-(P50)-POE PR_.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] 12-16-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] SURFACE MOUNT LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-4-P72-835-(P50)-POE PR

[LAMPCAT] HLM 80 CRI, 3500K CCT

[_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	5126
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	165
Total Luminaire Watts	31
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	18460	14896	14083
55	15650	12487	12620
65	12289	10670	11464
75	8463	8722	10171
85	3781	7399	8916

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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	1729.545	1729.545	1729.545	1729.545	1729.545
5	1744.421	1722.499	1721.716	1717.801	1697.444
10	1714.669	1695.095	1696.661	1691.964	1673.173
15	1666.909	1648.118	1652.816	1648.118	1632.459
20	1587.048	1572.955	1587.048	1580.001	1563.559
25	1488.396	1482.915	1495.442	1494.659	1470.388
30	1379.565	1381.914	1396.007	1396.007	1366.255
35	1246.463	1265.254	1272.300	1274.649	1244.114
40	1101.616	1129.803	1123.539	1136.066	1120.407
45	959.902	984.956	983.390	1006.096	1002.181
50	815.055	837.761	855.769	894.133	901.963
55	666.294	694.480	734.411	791.566	817.404
60	526.145	560.595	628.712	699.178	732.845
65	391.477	446.284	531.626	612.270	646.720
70	268.553	340.585	432.191	519.881	560.595
75	170.684	239.584	342.934	430.625	471.338
80	93.172	159.723	269.336	349.197	386.779
85	29.752	97.869	204.351	275.600	310.833
90	0.000	63.419	155.808	222.359	246.631
95	0.000	57.939	145.629	203.568	217.661
100	0.000	54.807	135.451	185.560	198.087
105	0.000	50.109	126.839	171.467	183.994
110	0.000	46.977	118.226	160.506	173.033
115	0.000	43.062	108.048	150.327	162.071
120	0.000	36.799	97.086	136.234	150.327
125	0.000	30.535	87.691	124.490	137.017
130	0.000	25.055	75.947	111.179	119.792
135	0.000	22.706	61.070	96.303	104.916
140	0.000	18.791	47.760	80.644	89.257
145	0.000	14.876	36.799	62.636	71.249
150	0.000	10.961	28.186	47.760	54.807
155	0.000	8.612	22.706	34.450	39.931
160	0.000	0.000	16.442	25.055	28.186
165	0.000	0.000	10.961	18.008	19.574
170	0.000	0.000	0.000	10.961	11.744
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	627.86	N.A.	12.20
0-30	1313.34	N.A.	25.60
0-40	2102.39	N.A.	41.00
0-60	3532.76	N.A.	68.90
0-80	4411.67	N.A.	86.10
0-90	4621.54	N.A.	90.20
10-90	4458.12	N.A.	87.00
20-40	1474.53	N.A.	28.80
20-50	2239.85	N.A.	43.70
40-70	1953.18	N.A.	38.10
60-80	878.92	N.A.	17.10
70-80	356.10	N.A.	6.90
80-90	209.87	N.A.	4.10
90-110	258.24	N.A.	5.00
90-120	352.77	N.A.	6.90
90-130	422.42	N.A.	8.20
90-150	491.54	N.A.	9.60
90-180	504.49	N.A.	9.80
110-180	246.25	N.A.	4.80
0-180	5126.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	163.42
10-20	464.44
20-30	685.47
30-40	789.06
40-50	765.32
50-60	665.04
60-70	522.82
70-80	356.10
80-90	209.87
90-100	141.30
100-110	116.94
110-120	94.54
120-130	69.64
130-140	45.13
140-150	23.98
150-160	10.03
160-170	2.77
170-180	0.15

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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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	106	101	96	92	102	97	93	89	91	88	85	86	83	81	81	78	76	74
2	96	88	81	75	92	85	78	73	80	74	70	75	71	67	71	67	64	61
3	88	77	69	62	84	75	67	61	70	64	59	66	61	56	62	58	54	52
4	80	68	60	53	77	66	58	52	63	56	50	59	53	48	56	51	47	44
5	74	61	52	46	71	59	51	45	56	49	44	53	47	42	50	45	41	39
6	68	55	46	40	66	54	45	39	51	44	38	48	42	37	46	40	36	34
7	63	50	41	35	61	49	41	35	46	39	34	44	38	33	42	36	32	30
8	59	46	37	32	57	45	37	31	43	35	30	41	34	30	39	33	29	27
9	55	42	34	28	53	41	33	28	39	32	27	37	31	27	36	30	26	24
10	52	39	31	26	50	38	31	26	36	30	25	35	29	24	33	28	24	22

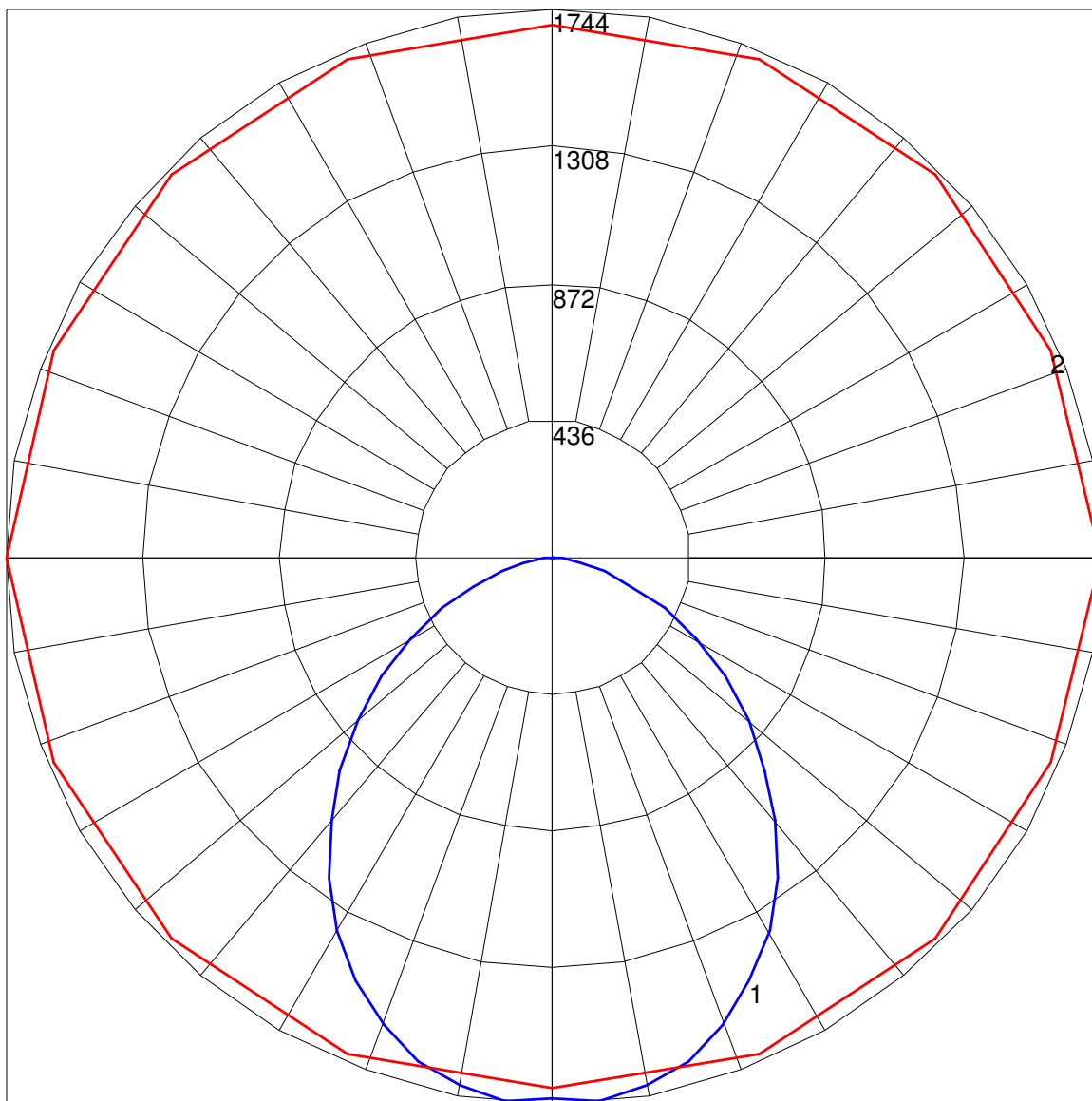
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	18.8	20.2	19.3	20.7	21.3	21.0	22.5	21.6	23.0	23.5
	3H	20.0	21.2	20.5	21.8	22.3	23.4	24.7	24.0	25.2	25.8
	4H	20.3	21.5	20.8	22.0	22.6	24.6	25.8	25.1	26.3	26.9
	6H	20.4	21.6	21.0	22.1	22.7	25.7	26.8	26.3	27.4	28.0
	8H	20.4	21.5	21.0	22.1	22.7	26.3	27.4	26.9	27.9	28.6
	12H	20.4	21.5	21.0	22.0	22.7	26.9	27.9	27.5	28.5	29.2
4H	2H	19.6	20.8	20.1	21.3	22.0	21.4	22.6	21.9	23.1	23.8
	3H	21.0	22.0	21.6	22.6	23.3	24.0	25.0	24.6	25.6	26.2
	4H	21.5	22.4	22.0	23.0	23.6	25.3	26.2	25.9	26.8	27.5
	6H	21.7	22.5	22.3	23.2	23.8	26.6	27.4	27.2	28.0	28.7
	8H	21.8	22.5	22.4	23.2	23.8	27.3	28.1	27.9	28.7	29.4
	12H	21.8	22.5	22.4	23.1	23.8	28.0	28.7	28.6	29.4	30.1
8H	4H	22.1	22.9	22.7	23.5	24.2	25.4	26.2	26.0	26.8	27.5
	6H	22.5	23.2	23.2	23.8	24.5	26.9	27.6	27.6	28.2	28.9
	8H	22.7	23.2	23.3	23.9	24.6	27.7	28.3	28.4	29.0	29.7
	12H	22.7	23.2	23.4	23.9	24.7	28.6	29.1	29.3	29.8	30.6
12H	4H	22.3	23.0	22.9	23.6	24.3	25.4	26.1	26.0	26.8	27.5
	6H	22.8	23.4	23.5	24.0	24.8	26.9	27.5	27.6	28.1	28.9
	8H	23.0	23.5	23.7	24.2	25.0	27.8	28.3	28.4	29.0	29.7

Maximum UGR = 30.6

POLAR GRAPH



Maximum Candela = 1744.421 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.)