



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-8-P73-835-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] 12-20-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 89.25 INCH LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-8-P73-835-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	6867
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	49
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)	7.44 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	12498	10036	9431
55	10644	8428	8451
65	8422	7220	7677
75	5894	5923	6811
85	2818	5058	5970

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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	2316.969	2316.969	2316.969	2316.969	2316.969
5	2336.898	2307.529	2306.481	2301.236	2273.965
10	2297.041	2270.819	2272.916	2266.623	2241.450
15	2233.059	2207.886	2214.179	2207.886	2186.909
20	2126.074	2107.194	2126.074	2116.634	2094.607
25	1993.915	1986.573	2003.355	2002.306	1969.791
30	1848.121	1851.268	1870.148	1870.148	1830.290
35	1669.812	1694.985	1704.425	1707.572	1666.666
40	1475.770	1513.530	1505.138	1521.921	1500.943
45	1285.923	1319.487	1317.390	1347.807	1342.563
50	1091.881	1122.298	1146.423	1197.818	1208.306
55	892.594	930.354	983.847	1060.415	1095.028
60	704.845	750.996	842.248	936.647	981.749
65	524.439	597.860	712.187	820.222	866.372
70	359.765	456.261	578.980	696.454	750.996
75	228.655	320.956	459.408	576.882	631.424
80	124.816	213.971	360.814	467.799	518.145
85	39.857	131.110	273.757	369.205	416.404
90	0.000	84.959	208.727	297.881	330.396
95	0.000	77.617	195.091	272.708	291.588
100	0.000	73.421	181.456	248.584	265.366
105	0.000	67.128	169.918	229.704	246.486
110	0.000	62.933	158.380	215.020	231.802
115	0.000	57.688	144.745	201.384	217.118
120	0.000	49.297	130.061	182.505	201.384
125	0.000	40.906	117.474	166.771	183.553
130	0.000	33.564	101.741	148.941	160.478
135	0.000	30.417	81.812	129.012	140.550
140	0.000	25.173	63.981	108.034	119.572
145	0.000	19.929	49.297	83.910	95.448
150	0.000	14.684	37.760	63.981	73.421
155	0.000	11.538	30.417	46.151	53.493
160	0.000	0.000	22.026	33.564	37.760
165	0.000	0.000	14.684	24.124	26.222
170	0.000	0.000	0.000	14.684	15.733
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	841.11	N.A.	12.20
0-30	1759.4	N.A.	25.60
0-40	2816.45	N.A.	41.00
0-60	4732.63	N.A.	68.90
0-80	5910.06	N.A.	86.10
0-90	6191.2	N.A.	90.20
10-90	5972.28	N.A.	87.00
20-40	1975.34	N.A.	28.80
20-50	3000.6	N.A.	43.70
40-70	2616.56	N.A.	38.10
60-80	1177.43	N.A.	17.10
70-80	477.05	N.A.	6.90
80-90	281.15	N.A.	4.10
90-110	345.95	N.A.	5.00
90-120	472.59	N.A.	6.90
90-130	565.89	N.A.	8.20
90-150	658.48	N.A.	9.60
90-180	675.83	N.A.	9.80
110-180	329.89	N.A.	4.80
0-180	6867.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	218.92
10-20	622.19
20-30	918.29
30-40	1057.05
40-50	1025.26
50-60	890.92
60-70	700.38
70-80	477.05
80-90	281.15
90-100	189.29
100-110	156.66
110-120	126.64
120-130	93.30
130-140	60.46
140-150	32.13
150-160	13.44
160-170	3.71
170-180	0.20

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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**

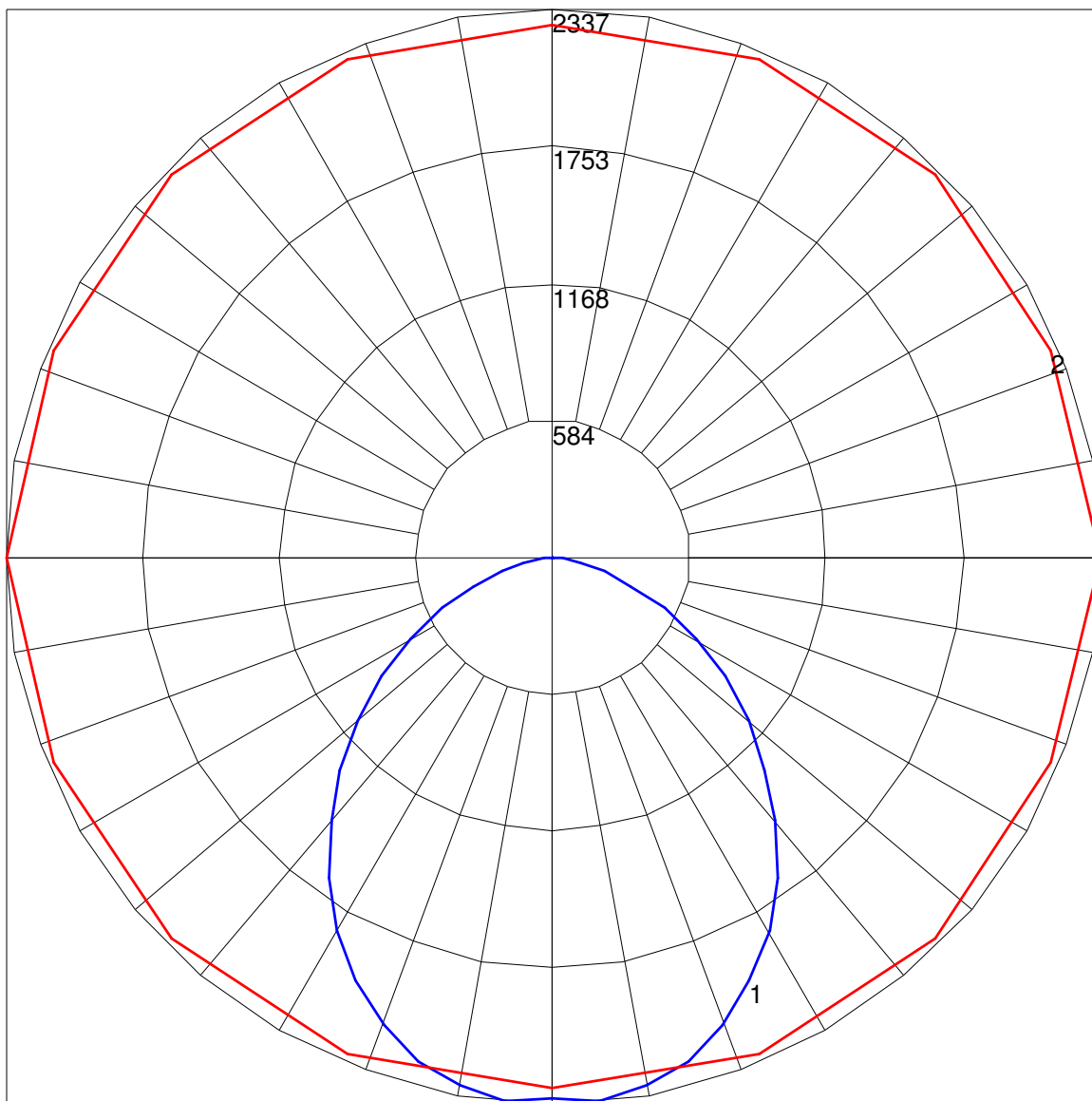
Reflectances

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	17.4	18.8	17.9	19.3	19.9	19.7	21.1	20.2	21.6	22.2
	3H	18.6	19.8	19.1	20.4	20.9	22.1	23.4	22.6	23.9	24.5
	4H	18.9	20.1	19.4	20.6	21.2	23.2	24.4	23.8	25.0	25.6
	6H	19.0	20.2	19.6	20.7	21.3	24.4	25.5	25.0	26.1	26.7
	8H	19.0	20.1	19.6	20.7	21.3	25.0	26.1	25.6	26.6	27.3
	12H	19.0	20.1	19.6	20.6	21.3	25.6	26.7	26.2	27.2	27.9
4H	2H	18.2	19.4	18.8	20.0	20.6	20.0	21.2	20.6	21.8	22.4
	3H	19.6	20.7	20.2	21.2	21.9	22.6	23.7	23.2	24.3	24.9
	4H	20.1	21.0	20.7	21.6	22.3	24.0	24.9	24.5	25.5	26.1
	6H	20.3	21.2	20.9	21.8	22.4	25.3	26.1	25.9	26.7	27.4
	8H	20.4	21.2	21.0	21.8	22.5	26.0	26.8	26.6	27.4	28.1
	12H	20.4	21.1	21.0	21.7	22.4	26.8	27.5	27.4	28.1	28.8
8H	4H	20.7	21.5	21.3	22.1	22.8	24.1	24.9	24.7	25.5	26.2
	6H	21.2	21.8	21.8	22.5	23.1	25.6	26.2	26.2	26.9	27.6
	8H	21.3	21.9	21.9	22.5	23.2	26.4	27.0	27.1	27.7	28.4
	12H	21.3	21.9	22.0	22.5	23.3	27.3	27.9	28.0	28.5	29.3
12H	4H	20.9	21.6	21.5	22.2	22.9	24.1	24.8	24.7	25.4	26.1
	6H	21.4	22.0	22.1	22.7	23.4	25.6	26.2	26.3	26.8	27.6
	8H	21.6	22.2	22.3	22.8	23.6	26.5	27.0	27.1	27.7	28.4

Maximum UGR = 29.3

POLAR GRAPH



Maximum Candela = 2336.898 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.)