



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-2-L20-835-DIM-UNV_.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] 05-NOV-2019

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 2' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-2-L20-835-DIM-UNV

[_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	1976
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	14.5
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)	1.88 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	13783	11225	10739
55	11584	9377	9623
65	8971	7976	8742
75	6002	6474	7756
85	2405	5425	6799

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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	666.715	666.715	666.715	666.715	666.715
5	672.450	663.999	663.697	662.188	654.341
10	660.981	653.435	654.039	652.228	644.984
15	642.570	635.326	637.137	635.326	629.290
20	611.784	606.352	611.784	609.068	602.730
25	573.755	571.643	576.472	576.170	566.813
30	531.803	532.708	538.141	538.141	526.672
35	480.494	487.737	490.454	491.359	479.588
40	424.657	435.523	433.108	437.937	431.901
45	370.028	379.687	379.083	387.836	386.327
50	314.192	322.945	329.887	344.676	347.694
55	256.847	267.712	283.105	305.138	315.098
60	202.821	216.101	242.360	269.523	282.501
65	150.909	172.036	204.934	236.021	249.301
70	103.523	131.291	166.603	200.407	216.101
75	65.796	92.356	132.196	166.000	181.694
80	35.916	61.571	103.825	134.611	149.098
85	11.469	37.727	78.774	106.240	119.822
90	0.000	24.447	60.062	85.716	95.073
95	0.000	22.335	56.138	78.473	83.905
100	0.000	21.127	52.214	71.531	76.360
105	0.000	19.316	48.894	66.098	70.927
110	0.000	18.109	45.574	61.873	66.702
115	0.000	16.600	41.651	57.949	62.476
120	0.000	14.185	37.425	52.516	57.949
125	0.000	11.771	33.804	47.989	52.818
130	0.000	9.658	29.276	42.858	46.178
135	0.000	8.753	23.542	37.124	40.444
140	0.000	7.244	18.411	31.087	34.407
145	0.000	5.735	14.185	24.145	27.465
150	0.000	4.225	10.865	18.411	21.127
155	0.000	3.320	8.753	13.280	15.393
160	0.000	0.000	6.338	9.658	10.865
165	0.000	0.000	4.225	6.942	7.545
170	0.000	0.000	0.000	4.225	4.527
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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Zone	Lumens	%Lamp	%Fixt
0-20	242.03	N.A.	12.20
0-30	506.27	N.A.	25.60
0-40	810.44	N.A.	41.00
0-60	1361.83	N.A.	68.90
0-80	1700.64	N.A.	86.10
0-90	1781.54	N.A.	90.20
10-90	1718.54	N.A.	87.00
20-40	568.41	N.A.	28.80
20-50	863.43	N.A.	43.70
40-70	752.92	N.A.	38.10
60-80	338.81	N.A.	17.10
70-80	137.27	N.A.	6.90
80-90	80.90	N.A.	4.10
90-110	99.55	N.A.	5.00
90-120	135.99	N.A.	6.90
90-130	162.84	N.A.	8.20
90-150	189.48	N.A.	9.60
90-180	194.47	N.A.	9.80
110-180	94.93	N.A.	4.80
0-180	1976.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	63.00
10-20	179.04
20-30	264.24
30-40	304.17
40-50	295.02
50-60	256.36
60-70	201.54
70-80	137.27
80-90	80.90
90-100	54.47
100-110	45.08
110-120	36.44
120-130	26.85
130-140	17.40
140-150	9.25
150-160	3.87
160-170	1.07
170-180	0.06

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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	154	154	154	154	149	149	149	149	140	140	140	131	131	131	123	123	123	119
1	140	133	127	121	135	129	123	118	121	116	112	113	110	106	106	104	101	97
2	127	116	106	99	122	112	104	97	105	98	92	99	93	88	93	89	84	81
3	116	102	91	82	111	99	89	81	93	84	78	87	80	75	83	77	72	68
4	106	90	79	70	102	88	77	69	83	74	66	78	70	64	74	67	62	59
5	98	81	69	60	94	79	68	59	74	65	58	70	62	56	67	60	54	51
6	90	73	61	53	87	71	60	52	67	58	51	64	55	49	61	53	48	45
7	84	66	55	47	81	64	54	46	61	52	45	58	50	44	55	48	43	40
8	78	60	49	42	75	59	49	41	56	47	40	54	45	39	51	44	38	36
9	73	56	45	38	70	54	44	37	52	43	36	49	41	35	47	40	35	32
10	68	51	41	34	66	50	40	34	48	39	33	46	38	32	44	37	32	29

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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	17.7	19.1	18.2	19.6	20.2	19.0	20.4	19.5	20.9	21.5
	3H	19.1	20.4	19.6	20.9	21.5	21.4	22.7	21.9	23.2	23.8
	4H	19.5	20.7	20.1	21.3	21.9	22.5	23.7	23.0	24.2	24.9
	6H	19.8	20.9	20.3	21.5	22.1	23.6	24.7	24.2	25.3	25.9
	8H	19.8	20.9	20.4	21.5	22.1	24.1	25.2	24.7	25.8	26.4
	12H	19.9	20.9	20.5	21.5	22.1	24.7	25.8	25.3	26.3	27.0

UGR Viewed Endwise

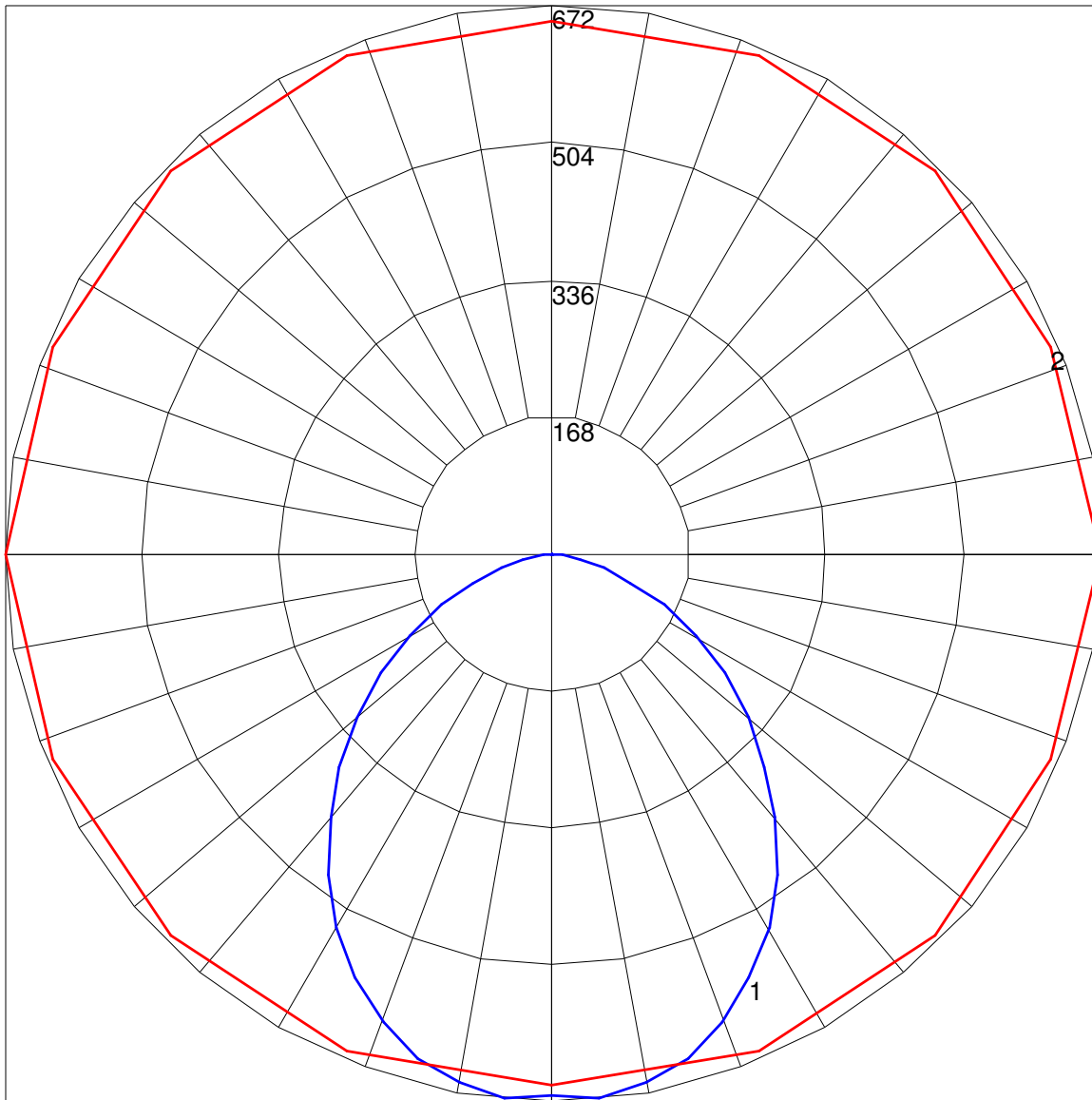
4H	2H	18.3	19.5	18.8	20.0	20.7	19.4	20.6	19.9	21.1	21.7
	3H	19.9	20.9	20.5	21.5	22.2	22.0	23.0	22.5	23.6	24.2
	4H	20.5	21.4	21.1	22.0	22.7	23.2	24.2	23.8	24.7	25.4
	6H	20.9	21.7	21.5	22.3	23.0	24.5	25.3	25.1	25.9	26.6
	8H	21.0	21.8	21.6	22.4	23.0	25.1	25.9	25.8	26.5	27.2
	12H	21.0	21.7	21.7	22.4	23.1	25.8	26.5	26.5	27.2	27.9

8H	4H	20.9	21.7	21.5	22.3	23.0	23.4	24.1	24.0	24.8	25.4
	6H	21.5	22.1	22.1	22.8	23.5	24.8	25.5	25.5	26.1	26.8
	8H	21.7	22.2	22.3	22.9	23.6	25.6	26.2	26.2	26.8	27.5
	12H	21.8	22.3	22.4	23.0	23.7	26.4	27.0	27.1	27.6	28.4

12H	4H	21.0	21.7	21.6	22.3	23.0	23.4	24.1	24.0	24.7	25.4
	6H	21.6	22.2	22.3	22.9	23.6	24.8	25.4	25.5	26.0	26.8
	8H	21.9	22.4	22.5	23.1	23.8	25.6	26.2	26.3	26.8	27.6

Maximum UGR = 28.4

POLAR GRAPH



Maximum Candela = 672.45 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.)