



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-2-L20-8FS-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] 04-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-L20-8FS-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	1951
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	13.9
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	13608	11083	10604
55	11438	9258	9502
65	8857	7875	8631
75	5926	6392	7658
85	2375	5356	6713

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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	658.280	658.280	658.280	658.280	658.280
5	663.942	655.598	655.300	653.810	646.062
10	652.618	645.168	645.764	643.976	636.824
15	634.440	627.288	629.076	627.288	621.328
20	604.044	598.680	604.044	601.362	595.104
25	566.496	564.410	569.178	568.880	559.642
30	525.074	525.968	531.332	531.332	520.008
35	474.414	481.566	484.248	485.142	473.520
40	419.285	430.013	427.629	432.397	426.437
45	365.347	374.883	374.287	382.929	381.439
50	310.217	318.859	325.713	340.315	343.295
55	253.597	264.325	279.523	301.277	311.111
60	200.255	213.367	239.293	266.113	278.927
65	148.999	169.859	202.341	233.035	246.147
70	102.214	129.630	164.495	197.871	213.367
75	64.964	91.188	130.524	163.899	179.395
80	35.462	60.792	102.512	132.908	147.212
85	11.324	37.250	77.778	104.896	118.306
90	0.000	24.138	59.302	84.632	93.870
95	0.000	22.052	55.428	77.480	82.844
100	0.000	20.860	51.554	70.626	75.394
105	0.000	19.072	48.276	65.262	70.030
110	0.000	17.880	44.998	61.090	65.858
115	0.000	16.390	41.124	57.216	61.686
120	0.000	14.006	36.952	51.852	57.216
125	0.000	11.622	33.376	47.382	52.150
130	0.000	9.536	28.906	42.316	45.594
135	0.000	8.642	23.244	36.654	39.932
140	0.000	7.152	18.178	30.694	33.972
145	0.000	5.662	14.006	23.840	27.118
150	0.000	4.172	10.728	18.178	20.860
155	0.000	3.278	8.642	13.112	15.198
160	0.000	0.000	6.258	9.536	10.728
165	0.000	0.000	4.172	6.854	7.450
170	0.000	0.000	0.000	4.172	4.470
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	238.97	N.A.	12.20
0-30	499.87	N.A.	25.60
0-40	800.19	N.A.	41.00
0-60	1344.6	N.A.	68.90
0-80	1679.12	N.A.	86.10
0-90	1759.00	N.A.	90.20
10-90	1696.8	N.A.	87.00
20-40	561.22	N.A.	28.80
20-50	852.51	N.A.	43.70
40-70	743.40	N.A.	38.10
60-80	334.52	N.A.	17.10
70-80	135.54	N.A.	6.90
80-90	79.88	N.A.	4.10
90-110	98.29	N.A.	5.00
90-120	134.27	N.A.	6.90
90-130	160.78	N.A.	8.20
90-150	187.08	N.A.	9.60
90-180	192.01	N.A.	9.80
110-180	93.73	N.A.	4.80
0-180	1951.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	62.20
10-20	176.77
20-30	260.90
30-40	300.32
40-50	291.29
50-60	253.12
60-70	198.99
70-80	135.53
80-90	79.88
90-100	53.78
100-110	44.51
110-120	35.98
120-130	26.51
130-140	17.18
140-150	9.13
150-160	3.82
160-170	1.05
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	153	153	153	153	148	148	148	148	138	138	138	130	130	130	122	122	122	118
1	138	132	126	120	133	127	122	117	119	115	111	112	109	105	105	103	100	96
2	126	115	105	98	121	111	103	96	104	97	91	98	92	87	92	88	84	80
3	115	101	90	81	110	98	88	80	92	84	77	87	80	74	82	76	71	68
4	105	89	78	69	101	87	76	68	82	73	66	77	70	63	73	67	61	58
5	97	80	68	60	93	78	67	59	74	64	57	70	62	55	66	59	54	50
6	89	72	61	52	86	70	59	52	67	57	50	63	55	49	60	53	47	44
7	83	66	54	46	80	64	53	46	61	51	44	58	49	43	55	48	42	39
8	77	60	49	41	75	58	48	41	56	46	40	53	45	39	51	43	38	35
9	72	55	44	37	70	54	44	37	51	42	36	49	41	35	47	40	34	32
10	68	51	41	34	66	50	40	33	47	39	33	45	38	32	44	36	31	29

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UGR TABLE - CORRECTED

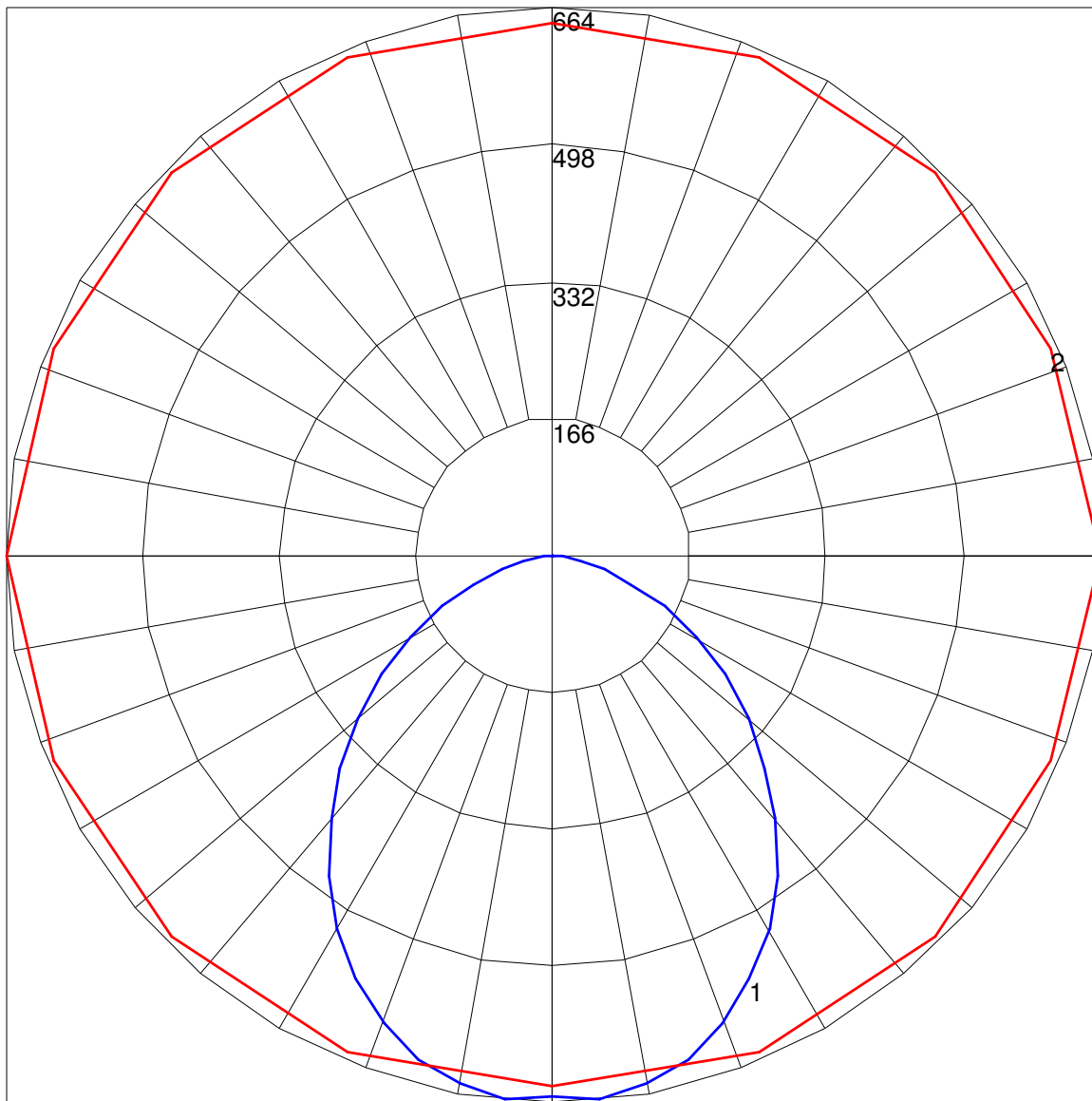
Reflectances

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					UGR Viewed Endwise				
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
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 = 663.942 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.)