



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L45-8FS-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] 4' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-4-L45-8FS-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	4375
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
Total Luminaire Watts	29.6
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	15755	12713	12020
55	13357	10657	10771
65	10489	9107	9784
75	7223	7444	8680
85	3227	6315	7609

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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	1476.153	1476.153	1476.153	1476.153	1476.153
5	1488.850	1470.139	1469.471	1466.129	1448.755
10	1463.456	1446.750	1448.087	1444.077	1428.039
15	1422.693	1406.656	1410.665	1406.656	1393.291
20	1354.532	1342.504	1354.532	1348.518	1334.485
25	1270.334	1265.656	1276.348	1275.680	1254.964
30	1177.448	1179.452	1191.481	1191.481	1166.087
35	1063.846	1079.884	1085.898	1087.903	1061.841
40	940.221	964.277	958.931	969.623	956.258
45	819.268	840.652	839.316	858.695	855.353
50	695.643	715.022	730.392	763.136	769.818
55	568.676	592.733	626.814	675.596	697.648
60	449.061	478.463	536.601	596.743	625.477
65	334.122	380.900	453.738	522.568	551.970
70	229.208	290.687	368.871	443.715	478.463
75	145.677	204.483	292.691	367.535	402.283
80	79.521	136.322	229.876	298.037	330.113
85	25.393	83.531	174.412	235.222	265.293
90	0.000	54.128	132.981	189.782	210.497
95	0.000	49.450	124.294	173.744	185.772
100	0.000	46.777	115.606	158.374	169.066
105	0.000	42.768	108.256	146.346	157.038
110	0.000	40.095	100.905	136.990	147.682
115	0.000	36.753	92.218	128.303	138.327
120	0.000	31.408	82.862	116.275	128.303
125	0.000	26.062	74.843	106.251	116.943
130	0.000	21.384	64.820	94.891	102.241
135	0.000	19.379	52.123	82.194	89.545
140	0.000	16.038	40.763	68.829	76.180
145	0.000	12.697	31.408	53.460	60.810
150	0.000	9.355	24.057	40.763	46.777
155	0.000	7.351	19.379	29.403	34.080
160	0.000	0.000	14.033	21.384	24.057
165	0.000	0.000	9.355	15.370	16.706
170	0.000	0.000	0.000	9.355	10.024
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	535.87	N.A.	12.20
0-30	1120.92	N.A.	25.60
0-40	1794.38	N.A.	41.00
0-60	3015.18	N.A.	68.90
0-80	3765.33	N.A.	86.10
0-90	3944.45	N.A.	90.20
10-90	3804.97	N.A.	87.00
20-40	1258.5	N.A.	28.80
20-50	1911.7	N.A.	43.70
40-70	1667.02	N.A.	38.10
60-80	750.15	N.A.	17.10
70-80	303.93	N.A.	6.90
80-90	179.12	N.A.	4.10
90-110	220.40	N.A.	5.00
90-120	301.09	N.A.	6.90
90-130	360.53	N.A.	8.20
90-150	419.52	N.A.	9.60
90-180	430.58	N.A.	9.80
110-180	210.17	N.A.	4.80
0-180	4375.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	139.48
10-20	396.40
20-30	585.05
30-40	673.45
40-50	653.20
50-60	567.61
60-70	446.22
70-80	303.93
80-90	179.12
90-100	120.59
100-110	99.81
110-120	80.69
120-130	59.44
130-140	38.52
140-150	20.47
150-160	8.56
160-170	2.36
170-180	0.13

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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	201	201	201	201	195	195	195	195	182	182	182	171	171	171	160	160	160	155
1	182	173	166	159	176	168	161	154	157	152	146	148	143	139	139	135	132	127
2	166	151	139	129	159	146	135	126	137	128	121	129	122	115	122	116	110	106
3	151	133	119	107	145	129	116	105	121	110	101	114	105	97	108	100	94	89
4	138	118	103	91	133	114	100	90	108	96	87	102	92	84	96	88	81	76
5	128	105	90	79	123	103	88	78	97	85	75	92	81	73	87	78	71	66
6	118	95	80	69	113	93	78	68	88	75	66	83	72	64	79	70	62	58
7	109	86	71	61	105	84	70	60	80	68	59	76	65	57	72	63	56	52
8	102	79	64	54	98	77	63	54	73	61	52	70	59	51	67	57	50	46
9	95	72	59	49	92	71	58	49	68	56	47	65	54	46	62	52	45	42
10	89	67	53	45	86	65	53	44	63	51	43	60	49	42	57	48	41	38

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UGR TABLE - CORRECTED

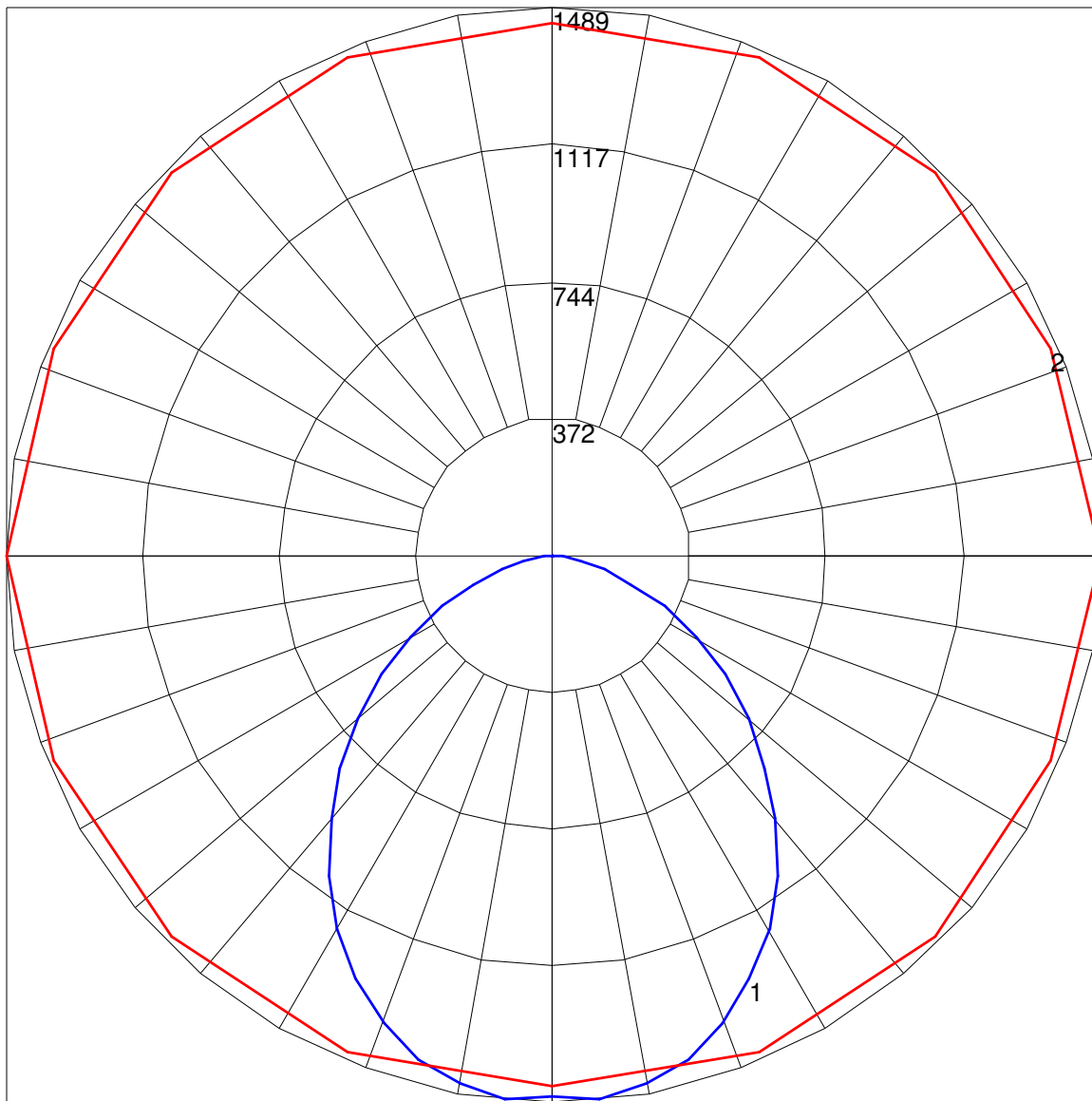
Reflectances

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	17.2	18.6	17.7	19.1	19.7	18.5	20.0	19.1	20.5	21.0
	3H	18.6	19.9	19.1	20.4	21.0	20.9	22.2	21.5	22.7	23.3
	4H	19.1	20.3	19.6	20.8	21.4	22.1	23.3	22.6	23.8	24.4
	6H	19.3	20.5	19.9	21.0	21.6	23.2	24.3	23.8	24.9	25.5
	8H	19.4	20.5	20.0	21.1	21.7	23.8	24.9	24.4	25.4	26.1
	12H	19.4	20.5	20.0	21.0	21.7	24.4	25.4	25.0	26.0	26.7
4H	2H	17.8	19.0	18.4	19.6	20.2	18.9	20.1	19.4	20.6	21.3
	3H	19.4	20.5	20.0	21.1	21.7	21.5	22.5	22.1	23.1	23.7
	4H	20.0	21.0	20.6	21.5	22.2	22.8	23.7	23.4	24.3	25.0
	6H	20.4	21.3	21.0	21.9	22.5	24.1	24.9	24.7	25.5	26.2
	8H	20.5	21.3	21.1	21.9	22.6	24.8	25.6	25.4	26.2	26.9
	12H	20.6	21.3	21.2	21.9	22.6	25.5	26.2	26.1	26.9	27.6
8H	4H	20.4	21.2	21.1	21.8	22.5	22.9	23.7	23.5	24.3	25.0
	6H	21.0	21.7	21.7	22.3	23.0	24.4	25.1	25.1	25.7	26.4
	8H	21.2	21.8	21.9	22.5	23.2	25.2	25.8	25.9	26.5	27.2
	12H	21.4	21.9	22.0	22.5	23.3	26.1	26.6	26.8	27.3	28.1
12H	4H	20.5	21.2	21.2	21.9	22.6	22.9	23.6	23.5	24.3	25.0
	6H	21.2	21.8	21.9	22.4	23.2	24.4	25.0	25.1	25.6	26.4
	8H	21.5	22.0	22.1	22.6	23.4	25.3	25.8	25.9	26.5	27.2

Maximum UGR = 28.1

POLAR GRAPH



Maximum Candela = 1488.85 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.)