



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-2-L25-8TW-A12125-DIM-UNV 4000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 17755.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 23-JUL-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 22" LED SURFACE MOUNT LUMINAIRE

[MORE] WHITE REFLECTOR w/CLEAR PRISMATIC LENS

[LUMCAT] 75L-2-L25-8TW-AF12125-DIM-UNV 4000k

[_SEARCH_SOURCETYPE]LED

[_SEARCH_APPLICATION]INDOOR,COMMERCIAL,INDUSTRIAL,DIRECT,LINEAR,MANUFACTURING,WAREHOUSE

[_SEARCH_MOUNTING]CEILING,SURFACE,SUSPENDED,WALL

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2949
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	26.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.71 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	42833	33118	26494
55	34296	23210	19400
65	24247	15515	16187
75	18425	11845	15135
85	18890	14005	15959

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1420.607	1420.607	1420.607	1420.607	1420.607
5	1444.645	1419.056	1411.302	1405.873	1401.996
10	1426.035	1403.547	1398.119	1391.916	1384.937
15	1398.119	1373.305	1361.673	1368.652	1357.796
20	1353.143	1329.105	1319.024	1322.901	1319.024
25	1288.006	1269.396	1255.438	1239.929	1237.603
30	1216.666	1192.627	1149.978	1115.859	1091.820
35	1123.613	1088.718	1015.051	927.427	855.311
40	986.360	953.792	826.619	691.693	642.065
45	827.395	807.233	639.738	533.503	511.791
50	676.184	642.065	486.977	417.187	397.801
55	537.380	466.815	363.682	319.481	303.973
60	397.025	319.481	268.302	238.060	237.285
65	279.934	222.551	179.127	179.902	186.881
70	192.309	150.435	120.193	140.355	143.456
75	130.274	103.134	83.748	102.358	107.011
80	91.502	73.667	65.137	71.341	73.667
85	44.976	41.874	33.344	37.997	37.997
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	521.20	N.A.	17.70
0-30	1097.17	N.A.	37.20
0-40	1719.78	N.A.	58.30
0-60	2589.11	N.A.	87.80
0-80	2907.69	N.A.	98.60
0-90	2948.67	N.A.	100.00
10-90	2814.09	N.A.	95.40
20-40	1198.58	N.A.	40.60
20-50	1712.48	N.A.	58.10
40-70	1076.56	N.A.	36.50
60-80	318.58	N.A.	10.80
70-80	111.35	N.A.	3.80
80-90	40.98	N.A.	1.40
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2948.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	134.59
10-20	386.61
20-30	575.98
30-40	622.61
40-50	513.90
50-60	355.43
60-70	207.23
70-80	111.35
80-90	40.98
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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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	118	118	118	118	116	116	116	116	110	110	110	106	106	106	101	101	101	99
1	110	106	102	99	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75
3	93	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65
4	86	76	68	62	84	74	67	62	72	66	61	70	64	60	68	63	59	57
5	80	69	61	55	78	68	60	54	65	59	54	64	58	53	62	57	53	51
6	74	62	54	49	73	62	54	48	60	53	48	58	52	48	57	51	47	45
7	69	57	49	44	68	56	49	43	55	48	43	54	47	43	52	47	43	41
8	65	53	45	39	63	52	44	39	51	44	39	49	43	39	48	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34
10	57	45	38	33	56	45	37	33	44	37	33	43	37	32	42	36	32	31

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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

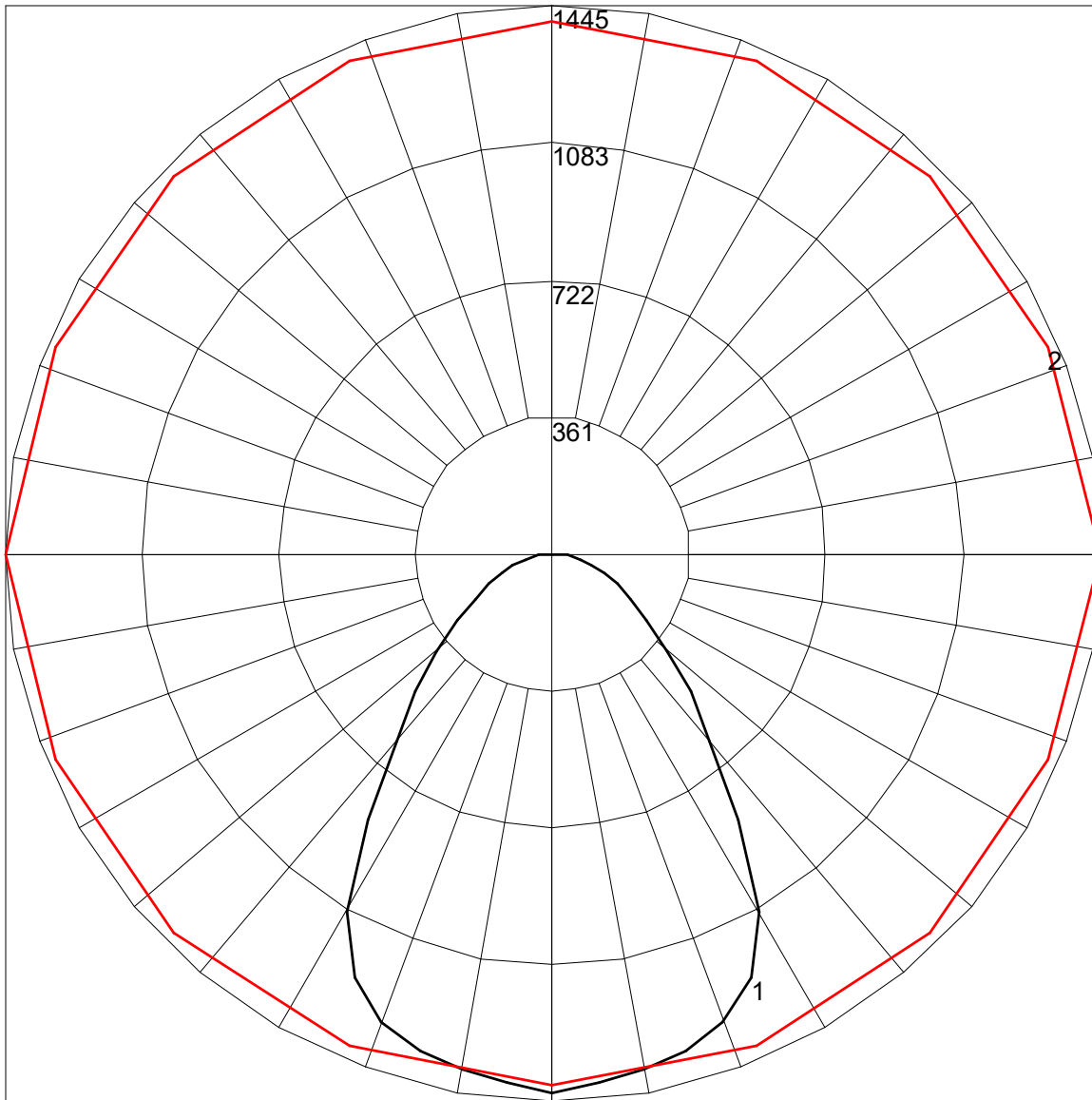
X=2H	Y=2H	23.3	24.8	23.7	25.1	25.4	20.7	22.1	21.0	22.4	22.8
	3H	24.5	25.8	24.8	26.1	26.5	22.2	23.5	22.5	23.8	24.2
	4H	24.9	26.1	25.3	26.5	26.9	22.8	24.0	23.2	24.4	24.8
	6H	25.4	26.5	25.8	26.8	27.2	23.4	24.5	23.8	24.9	25.3
	8H	25.5	26.6	26.0	27.0	27.4	23.6	24.7	24.1	25.1	25.5
	12H	25.7	26.7	26.1	27.1	27.5	23.8	24.8	24.2	25.2	25.7

UGR Viewed Endwise

4H	2H	23.4	24.6	23.8	25.0	25.4	21.1	22.3	21.5	22.7	23.1
	3H	24.7	25.8	25.2	26.2	26.6	22.8	23.8	23.2	24.2	24.6
	4H	25.3	26.2	25.7	26.6	27.1	23.6	24.5	24.1	25.0	25.4
	6H	25.9	26.7	26.4	27.1	27.6	24.4	25.2	24.8	25.6	26.1
	8H	26.2	26.9	26.6	27.4	27.8	24.7	25.4	25.1	25.9	26.3
	12H	26.4	27.1	26.9	27.5	28.0	24.9	25.6	25.4	26.1	26.6
8H	4H	25.4	26.1	25.9	26.6	27.1	23.8	24.6	24.3	25.0	25.5
	6H	26.1	26.7	26.6	27.2	27.7	24.8	25.4	25.3	25.9	26.3
	8H	26.5	27.0	27.0	27.5	28.0	25.2	25.7	25.7	26.2	26.7
	12H	26.8	27.3	27.3	27.8	28.4	25.5	26.0	26.1	26.5	27.1
12H	4H	25.4	26.1	25.9	26.5	27.0	23.9	24.5	24.4	25.0	25.5
	6H	26.2	26.7	26.7	27.2	27.7	24.8	25.4	25.4	25.9	26.4
	8H	26.6	27.0	27.1	27.5	28.1	25.3	25.8	25.8	26.3	26.9

Maximum UGR = 28.4

POLAR GRAPH



Maximum Candela = 1444.645 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)