



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-4-L65-8TW-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] 4' LED SURFACE MOUNT LUMINAIRE

[MORE] WHITE REFLECTOR w/CLEAR PRISMATIC LENS

[LUMCAT] 75L-4-L65-8TW-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	7619
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	64.4
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)	3.71 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	50980	39418	31534
55	40819	27625	23090
65	28859	18467	19266
75	21930	14098	18014
85	22483	16668	18994

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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	3670.743	3670.743	3670.743	3670.743	3670.743
5	3732.858	3666.736	3646.699	3632.674	3622.655
10	3684.769	3626.663	3612.637	3596.607	3578.574
15	3612.637	3548.519	3518.464	3536.497	3508.445
20	3496.423	3434.309	3408.261	3418.280	3408.261
25	3328.114	3280.026	3243.959	3203.886	3197.875
30	3143.775	3081.661	2971.459	2883.297	2821.183
35	2903.334	2813.168	2622.818	2396.402	2210.060
40	2548.682	2464.528	2135.924	1787.283	1659.048
45	2137.928	2085.832	1653.037	1378.532	1322.429
50	1747.210	1659.048	1258.312	1077.980	1027.888
55	1388.551	1206.216	939.726	825.517	785.443
60	1025.885	825.517	693.274	615.130	613.126
65	723.329	575.056	462.850	464.854	482.887
70	496.913	388.714	310.571	362.666	370.681
75	336.618	266.490	216.398	264.486	276.508
80	236.434	190.350	168.309	184.339	190.350
85	116.213	108.199	86.158	98.180	98.180
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1346.73	N.A.	17.70
0-30	2835.01	N.A.	37.20
0-40	4443.79	N.A.	58.30
0-60	6690.08	N.A.	87.80
0-80	7513.26	N.A.	98.60
0-90	7619.16	N.A.	100.00
10-90	7271.39	N.A.	95.40
20-40	3097.06	N.A.	40.60
20-50	4424.93	N.A.	58.10
40-70	2781.76	N.A.	36.50
60-80	823.18	N.A.	10.80
70-80	287.71	N.A.	3.80
80-90	105.90	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	7619.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	347.76
10-20	998.97
20-30	1488.28
30-40	1608.78
40-50	1327.88
50-60	918.41
60-70	535.47
70-80	287.71
80-90	105.90
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	121	121	121	121	118	118	118	118	113	113	113	108	108	108	104	104	104	102
1	112	108	104	101	110	106	102	99	101	99	96	98	95	93	94	92	90	88
2	104	96	90	85	101	94	89	84	91	86	82	88	84	80	85	81	79	77
3	96	86	79	73	93	85	78	72	82	76	71	79	74	70	76	72	69	67
4	88	78	70	63	86	76	69	63	74	67	62	71	66	61	69	65	61	59
5	82	70	62	56	80	69	61	56	67	60	55	65	59	54	63	58	54	52
6	76	64	56	50	74	63	55	49	61	54	49	60	53	49	58	53	48	46
7	71	58	50	45	69	58	50	44	56	49	44	55	48	44	53	48	44	42
8	66	54	46	40	65	53	45	40	52	45	40	51	44	40	49	44	39	38
9	62	50	42	37	61	49	42	37	48	41	36	47	41	36	46	40	36	34
10	59	46	39	34	57	46	38	33	45	38	33	44	38	33	43	37	33	31

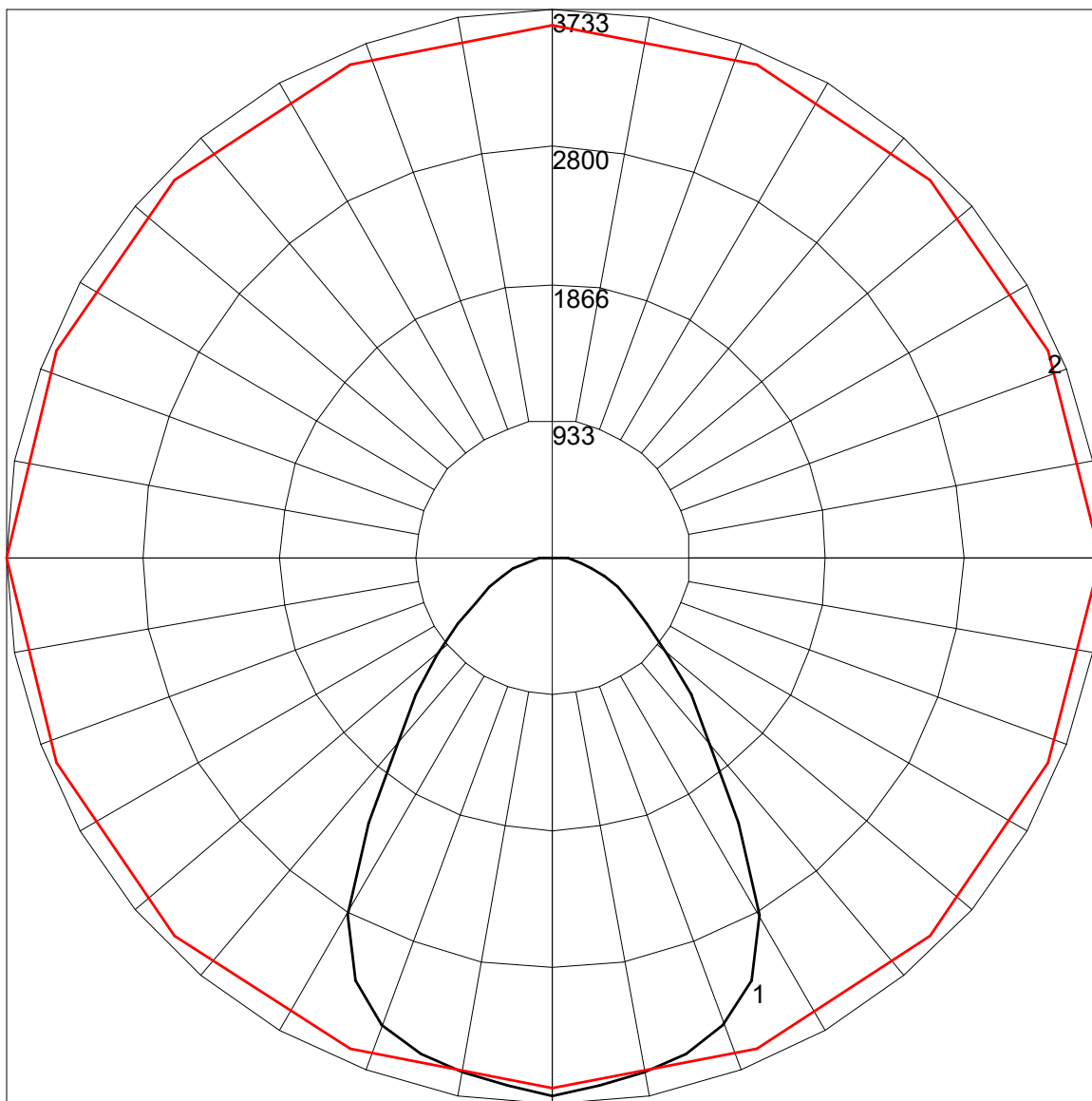
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	23.8	25.3	24.2	25.6	25.9	21.2	22.6	21.5	22.9	23.3
	3H	25.0	26.3	25.3	26.6	27.0	22.7	24.0	23.1	24.3	24.7
	4H	25.4	26.6	25.8	27.0	27.4	23.3	24.5	23.7	24.9	25.3
	6H	25.9	27.0	26.3	27.4	27.7	23.9	25.0	24.3	25.4	25.8
	8H	26.0	27.1	26.5	27.5	27.9	24.1	25.2	24.6	25.6	26.0
	12H	26.2	27.2	26.6	27.6	28.0	24.3	25.4	24.8	25.7	26.2
4H	2H	23.9	25.2	24.3	25.5	25.9	21.6	22.9	22.0	23.2	23.6
	3H	25.3	26.3	25.7	26.7	27.1	23.3	24.3	23.7	24.7	25.1
	4H	25.8	26.7	26.2	27.1	27.6	24.1	25.0	24.6	25.5	25.9
	6H	26.4	27.2	26.9	27.7	28.1	24.9	25.7	25.4	26.1	26.6
	8H	26.7	27.4	27.1	27.9	28.3	25.2	25.9	25.6	26.4	26.8
	12H	26.9	27.6	27.4	28.0	28.5	25.4	26.1	25.9	26.6	27.1
8H	4H	25.9	26.6	26.4	27.1	27.6	24.3	25.1	24.8	25.5	26.0
	6H	26.6	27.2	27.1	27.7	28.2	25.3	25.9	25.8	26.4	26.9
	8H	27.0	27.5	27.5	28.0	28.5	25.7	26.2	26.2	26.7	27.2
	12H	27.3	27.8	27.8	28.3	28.9	26.1	26.5	26.6	27.0	27.6
12H	4H	25.9	26.6	26.4	27.1	27.5	24.4	25.1	24.9	25.5	26.0
	6H	26.7	27.2	27.2	27.7	28.2	25.3	25.9	25.9	26.4	26.9
	8H	27.1	27.6	27.6	28.0	28.6	25.8	26.3	26.3	26.8	27.4

Maximum UGR = 28.9

POLAR GRAPH



Maximum Candela = 3732.858 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.)