



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 29-3-L40-835-AF-(L23)- DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]GEN FROM BALLABS TEST NO. 20306.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUE DATE] 05-20-2020  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836  
 [LUMINAIRE] 3' WALL MNT BED LIGHT LED  
 [MORE] WITH FROSTED PRISMATIC DIFFUSER TOP/BTM  
 [LUMCAT] 29-3-L40-835-A-(L23)-DIM UNV  
 [LAMPCAT] HLM 80 CRI, 3500K CCT  
 [ \_SEARCH\_SOURCETYPE] LED  
 [ \_SEARCH\_APPLICATION] Indoor, Corridor, Healthcare, Direct-Indirect  
 [ \_SEARCH\_MOUNTING] Wall

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2407
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	19.1
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.66 ft
Luminous Width (90-270)	3.05 ft
Luminous Height	0.42 ft



### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3026	2251	1321
55	3217	2344	1254
65	2986	2157	1135
75	2700	1798	981
85	2356	1482	760

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
<b>0</b>	251.781	251.781	251.781	251.781	251.781	251.781	251.781	251.781	251.781
<b>5</b>	248.430	243.292	247.089	242.845	253.792	222.068	214.248	206.653	204.195
<b>10</b>	283.505	273.675	268.537	252.228	253.121	217.600	204.195	194.812	192.578
<b>15</b>	327.070	312.995	292.218	261.388	251.781	211.791	192.578	183.642	179.397
<b>20</b>	381.134	358.794	321.261	270.324	249.100	202.184	180.067	169.343	165.545
<b>25</b>	445.699	417.327	351.868	279.707	244.185	192.578	166.663	153.705	149.013
<b>30</b>	509.147	472.732	386.273	285.963	237.260	180.961	149.907	135.385	129.353
<b>35</b>	572.148	526.797	418.890	290.207	227.653	164.875	131.811	116.619	109.470
<b>40</b>	624.649	573.712	445.476	289.760	215.366	147.003	112.598	97.406	89.587
<b>45</b>	659.278	605.660	463.572	284.845	199.727	128.460	94.725	79.087	71.491
<b>50</b>	675.363	618.841	466.030	272.558	181.631	109.470	75.959	60.990	54.512
<b>55</b>	663.522	605.660	451.285	254.462	161.748	91.597	58.533	45.128	39.543
<b>60</b>	620.181	567.233	418.220	229.217	140.077	73.054	42.001	29.266	24.351
<b>65</b>	562.765	514.062	373.539	197.493	116.842	55.629	26.586	15.639	11.170
<b>70</b>	506.020	459.327	321.484	164.205	94.278	37.979	11.394	2.011	0.000
<b>75</b>	445.253	394.092	267.196	131.811	72.384	21.671	0.000	0.000	0.000
<b>80</b>	378.900	329.527	218.270	101.427	52.054	6.255	0.000	0.000	0.000
<b>85</b>	321.261	280.377	177.163	74.395	32.171	2.904	0.000	0.000	0.000
<b>90</b>	280.377	238.377	143.428	54.288	27.256	4.021	0.000	0.000	0.670
<b>95</b>	274.792	233.908	139.407	60.990	42.448	15.192	6.255	7.819	8.490
<b>100</b>	271.664	230.781	148.343	81.544	57.863	26.809	18.990	16.756	12.511
<b>105</b>	273.675	243.515	175.375	105.449	72.831	38.426	31.054	29.937	16.979
<b>110</b>	300.707	271.218	209.780	134.715	91.821	46.022	43.565	44.235	44.682
<b>115</b>	343.155	313.442	255.579	172.024	113.938	52.501	54.735	59.650	61.437
<b>120</b>	379.347	355.442	312.325	219.387	138.290	56.746	58.533	74.172	76.852
<b>125</b>	432.965	411.071	365.943	267.196	162.641	65.012	60.320	80.874	87.799
<b>130</b>	495.519	473.625	426.263	306.516	186.546	75.959	65.682	77.523	94.725
<b>135</b>	553.829	529.254	475.189	341.591	209.333	83.778	71.714	67.246	97.183
<b>140</b>	592.479	567.904	505.796	363.932	226.313	86.459	75.959	65.682	95.395
<b>145</b>	605.436	579.521	494.626	369.294	238.600	97.406	79.310	67.916	84.895
<b>150</b>	585.330	561.425	496.413	364.602	247.536	109.470	79.310	73.948	61.661
<b>155</b>	537.967	519.871	462.232	348.964	250.441	128.236	79.087	77.746	50.714
<b>160</b>	476.306	457.093	414.869	329.304	252.004	147.226	90.927	79.980	57.639
<b>165</b>	405.486	389.624	366.389	304.505	252.675	172.695	118.630	87.129	74.395
<b>170</b>	326.846	320.367	310.537	277.696	253.568	191.908	158.173	118.853	105.002
<b>175</b>	256.026	253.568	260.271	254.462	254.909	214.472	199.057	179.397	160.184
<b>180</b>	247.760	247.760	247.760	247.760	247.760	247.760	247.760	247.760	247.760

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	92.27	N.A.	3.80
0-30	213.95	N.A.	8.90
0-40	387.60	N.A.	16.10
0-60	825.59	N.A.	34.30
0-80	1169.18	N.A.	48.60
0-90	1270.08	N.A.	52.80
10-90	1247.48	N.A.	51.80
20-40	295.34	N.A.	12.30
20-50	508.98	N.A.	21.10
40-70	634.30	N.A.	26.40
60-80	343.60	N.A.	14.30
70-80	147.28	N.A.	6.10
80-90	100.89	N.A.	4.20
90-110	202.52	N.A.	8.40
90-120	354.41	N.A.	14.70
90-130	541.77	N.A.	22.50
90-150	920.88	N.A.	38.30
90-180	1136.83	N.A.	47.20
110-180	934.31	N.A.	38.80
0-180	2406.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	22.59
10-20	69.68
20-30	121.68
30-40	173.66
40-50	213.65
50-60	224.33
60-70	196.32
70-80	147.28
80-90	100.89
90-100	89.53
100-110	112.99
110-120	151.89
120-130	187.36
130-140	201.75
140-150	177.36
150-160	124.93
160-170	68.92
170-180	22.10

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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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	96	91	86	82	89	84	80	76	71	68	65	59	57	55	49	47	45	40
2	87	78	71	65	80	72	66	61	61	56	52	51	47	44	41	39	36	32
3	78	68	59	53	72	62	55	49	53	47	42	44	40	36	36	32	30	25
4	71	59	50	44	65	55	47	41	46	40	35	38	34	30	31	28	25	21
5	65	52	43	37	59	48	40	34	41	35	30	34	29	25	28	24	21	17
6	60	46	38	31	55	43	35	29	36	30	25	30	25	22	25	21	18	15
7	55	42	33	27	50	39	31	25	33	27	22	27	22	19	22	18	15	13
8	51	38	29	24	47	35	27	22	30	24	19	25	20	16	20	16	14	11
9	47	34	26	21	43	32	24	20	27	21	17	23	18	15	19	15	12	10
10	44	31	24	18	40	29	22	17	25	19	15	21	16	13	17	13	11	9

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**UGR TABLE - CORRECTED**

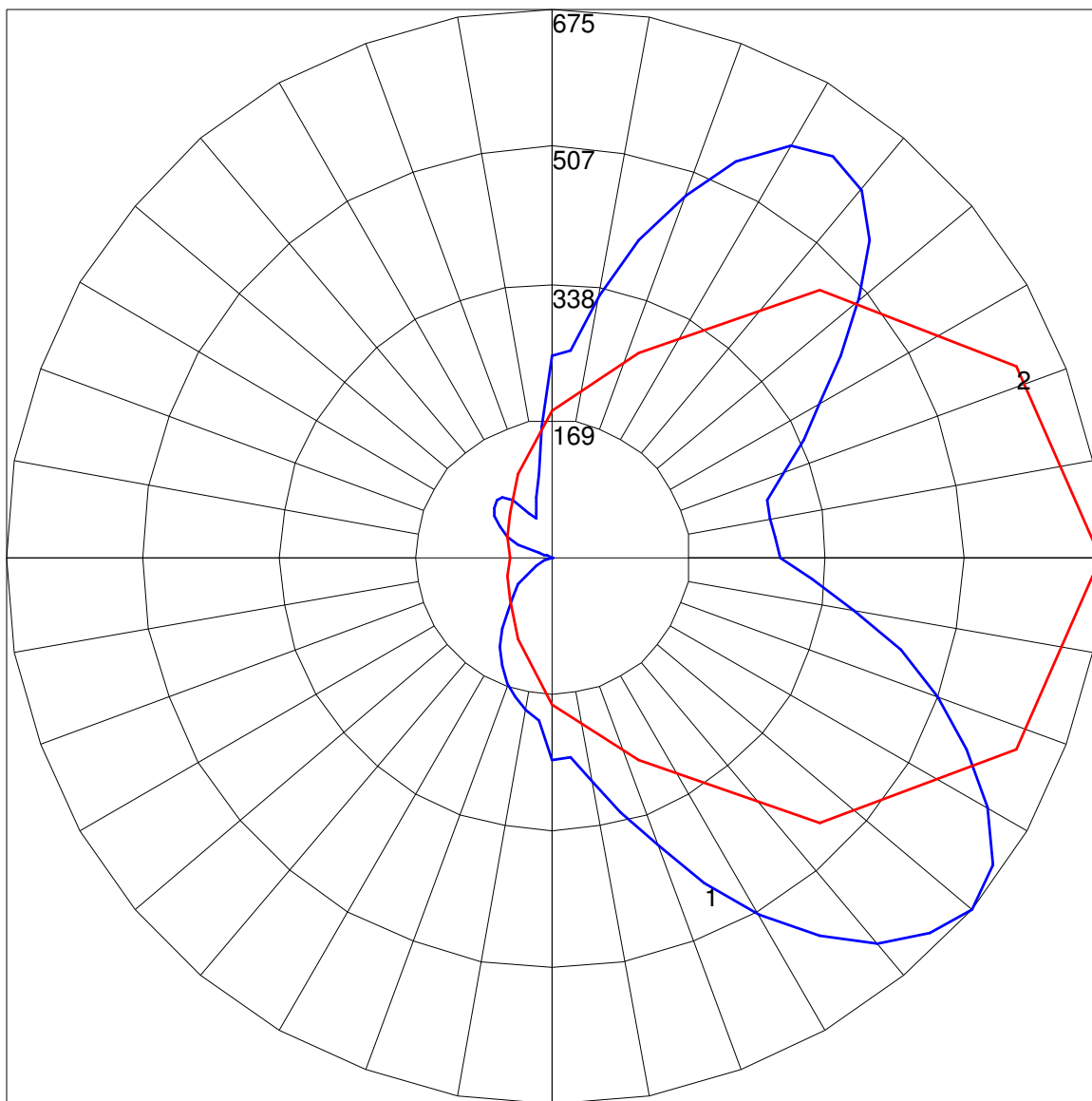
Reflectances

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	16.9	17.9	17.8	18.9	20.1	7.3	8.3	8.2	9.2	10.5
	3H	19.6	20.4	20.5	21.4	22.6	8.8	9.6	9.7	10.6	11.8
	4H	20.8	21.6	21.7	22.6	23.8	9.3	10.1	10.2	11.1	12.3
	6H	21.9	22.7	22.9	23.7	25.0	9.6	10.4	10.6	11.4	12.6
	8H	22.5	23.3	23.5	24.3	25.5	9.7	10.5	10.7	11.5	12.7
	12H	23.1	23.8	24.1	24.8	26.1	9.8	10.5	10.8	11.5	12.8
4H	2H	17.1	17.9	18.0	18.9	20.1	9.5	10.4	10.5	11.4	12.6
	3H	19.9	20.7	20.9	21.6	22.9	11.0	11.8	12.0	12.7	14.0
	4H	21.4	22.0	22.3	23.0	24.3	11.5	12.2	12.5	13.2	14.5
	6H	22.7	23.3	23.7	24.3	25.6	11.9	12.5	12.9	13.5	14.8
	8H	23.4	24.0	24.4	25.0	26.3	12.0	12.5	13.0	13.5	14.9
	12H	24.1	24.6	25.1	25.6	26.9	12.1	12.6	13.1	13.6	14.9
8H	4H	21.4	22.0	22.4	23.0	24.3	12.9	13.5	13.9	14.5	15.8
	6H	23.0	23.4	24.0	24.5	25.8	13.4	13.9	14.4	14.9	16.2
	8H	23.8	24.2	24.8	25.2	26.5	13.6	14.0	14.6	15.1	16.4
	12H	24.7	25.0	25.7	26.1	27.4	13.7	14.1	14.7	15.1	16.5
12H	4H	21.4	21.9	22.4	22.9	24.2	13.3	13.8	14.3	14.8	16.1
	6H	22.9	23.4	24.0	24.4	25.7	14.0	14.4	15.0	15.4	16.8
	8H	23.8	24.2	24.8	25.2	26.6	14.2	14.6	15.3	15.6	17.0

Maximum UGR = 27.4

POLAR GRAPH



Maximum Candela = 675.363 Located At Horizontal Angle = 0, Vertical Angle = 50  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (50) (Through Max. Cd.)