

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 29-3-L79-835-AF-DRV-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] 09-08-2023  
[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-L79-835-AF-DRV-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	7857
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	59.62
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	9879	7347	4314
55	10499	7652	4093
65	9748	7040	3705
75	8814	5868	3203
85	7692	4836	2480

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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>	821.871	821.871	821.871	821.871	821.871	821.871	821.871	821.871	821.871
<b>5</b>	810.932	794.159	806.557	792.701	828.434	724.880	699.356	674.561	666.540
<b>10</b>	925.425	893.338	876.565	823.330	826.247	710.295	666.540	635.911	628.618
<b>15</b>	1067.630	1021.687	953.866	853.229	821.871	691.334	628.618	599.448	585.592
<b>20</b>	1244.110	1171.185	1048.670	882.399	813.120	659.976	587.780	552.776	540.378
<b>25</b>	1454.865	1362.249	1148.578	913.028	797.076	628.618	544.025	501.728	486.413
<b>30</b>	1661.974	1543.105	1260.883	933.447	774.469	590.697	489.331	441.929	422.239
<b>35</b>	1867.624	1719.585	1367.354	947.303	743.111	538.191	430.261	380.671	357.335
<b>40</b>	2038.999	1872.728	1454.136	945.845	703.002	479.850	367.545	317.955	292.432
<b>45</b>	2152.033	1977.012	1513.205	929.801	651.955	419.322	309.204	258.156	233.362
<b>50</b>	2204.540	2020.038	1521.227	889.692	592.885	357.335	247.947	199.087	177.938
<b>55</b>	2165.889	1977.012	1473.096	830.622	527.981	298.995	191.065	147.310	129.078
<b>60</b>	2024.414	1851.580	1365.167	748.216	457.243	238.467	137.100	95.532	79.489
<b>65</b>	1836.995	1678.017	1219.315	644.662	381.401	181.585	86.781	51.048	36.463
<b>70</b>	1651.764	1499.350	1049.399	536.003	307.746	123.973	37.192	6.563	0.000
<b>75</b>	1453.406	1286.407	872.190	430.261	236.279	70.738	0.000	0.000	0.000
<b>80</b>	1236.818	1075.652	712.483	331.082	169.917	20.419	0.000	0.000	0.000
<b>85</b>	1048.670	915.216	578.300	242.842	105.013	9.480	0.000	0.000	0.000
<b>90</b>	915.216	778.116	468.182	177.209	88.969	13.127	0.000	0.000	2.188
<b>95</b>	896.984	763.531	455.056	199.087	138.559	49.589	20.419	25.524	27.712
<b>100</b>	886.775	753.321	484.226	266.178	188.877	87.511	61.987	54.694	40.838
<b>105</b>	893.338	794.889	572.466	344.209	237.737	125.432	101.367	97.720	55.423
<b>110</b>	981.578	885.316	684.771	439.741	299.724	150.227	142.205	144.393	145.851
<b>115</b>	1120.137	1023.146	834.268	561.527	371.920	171.375	178.668	194.711	200.545
<b>120</b>	1238.276	1160.246	1019.499	716.129	451.409	185.231	191.065	242.113	250.864
<b>125</b>	1413.297	1341.830	1194.521	872.190	530.898	212.213	196.899	263.991	286.597
<b>130</b>	1617.489	1546.022	1391.420	1000.539	608.928	247.947	214.401	253.052	309.204
<b>135</b>	1807.825	1727.607	1551.127	1115.032	683.313	273.471	234.091	219.506	317.226
<b>140</b>	1933.986	1853.768	1651.035	1187.957	738.736	282.222	247.947	214.401	311.392
<b>145</b>	1976.283	1891.689	1614.572	1205.460	778.845	317.955	258.886	221.694	277.117
<b>150</b>	1910.650	1832.619	1620.406	1190.145	808.015	357.335	258.886	241.384	201.275
<b>155</b>	1756.048	1696.978	1508.830	1139.097	817.496	418.593	258.156	253.781	165.541
<b>160</b>	1554.773	1492.057	1354.228	1074.923	822.600	480.579	296.807	261.074	188.148
<b>165</b>	1323.599	1271.822	1195.979	993.975	824.788	563.715	387.235	284.410	242.842
<b>170</b>	1066.901	1045.753	1013.665	906.465	827.705	626.431	516.313	387.964	342.750
<b>175</b>	835.727	827.705	849.583	830.622	832.081	700.085	649.767	585.592	522.876
<b>180</b>	808.744	808.744	808.744	808.744	808.744	808.744	808.744	808.744	808.744

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	301.19	N.A.	3.80
0-30	698.38	N.A.	8.90
0-40	1265.23	N.A.	16.10
0-60	2694.91	N.A.	34.30
0-80	3816.49	N.A.	48.60
0-90	4145.82	N.A.	52.80
10-90	4072.08	N.A.	51.80
20-40	964.05	N.A.	12.30
20-50	1661.44	N.A.	21.10
40-70	2070.49	N.A.	26.40
60-80	1121.58	N.A.	14.30
70-80	480.76	N.A.	6.10
80-90	329.33	N.A.	4.20
90-110	661.07	N.A.	8.40
90-120	1156.88	N.A.	14.70
90-130	1768.48	N.A.	22.50
90-150	3005.96	N.A.	38.30
90-180	3710.87	N.A.	47.20
110-180	3049.79	N.A.	38.80
0-180	7856.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	73.74
10-20	227.44
20-30	397.19
30-40	566.85
40-50	697.40
50-60	732.28
60-70	640.82
70-80	480.76
80-90	329.33
90-100	292.26
100-110	368.81
110-120	495.80
120-130	611.60
130-140	658.54
140-150	578.94
150-160	407.79
160-170	224.96
170-180	72.15

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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**

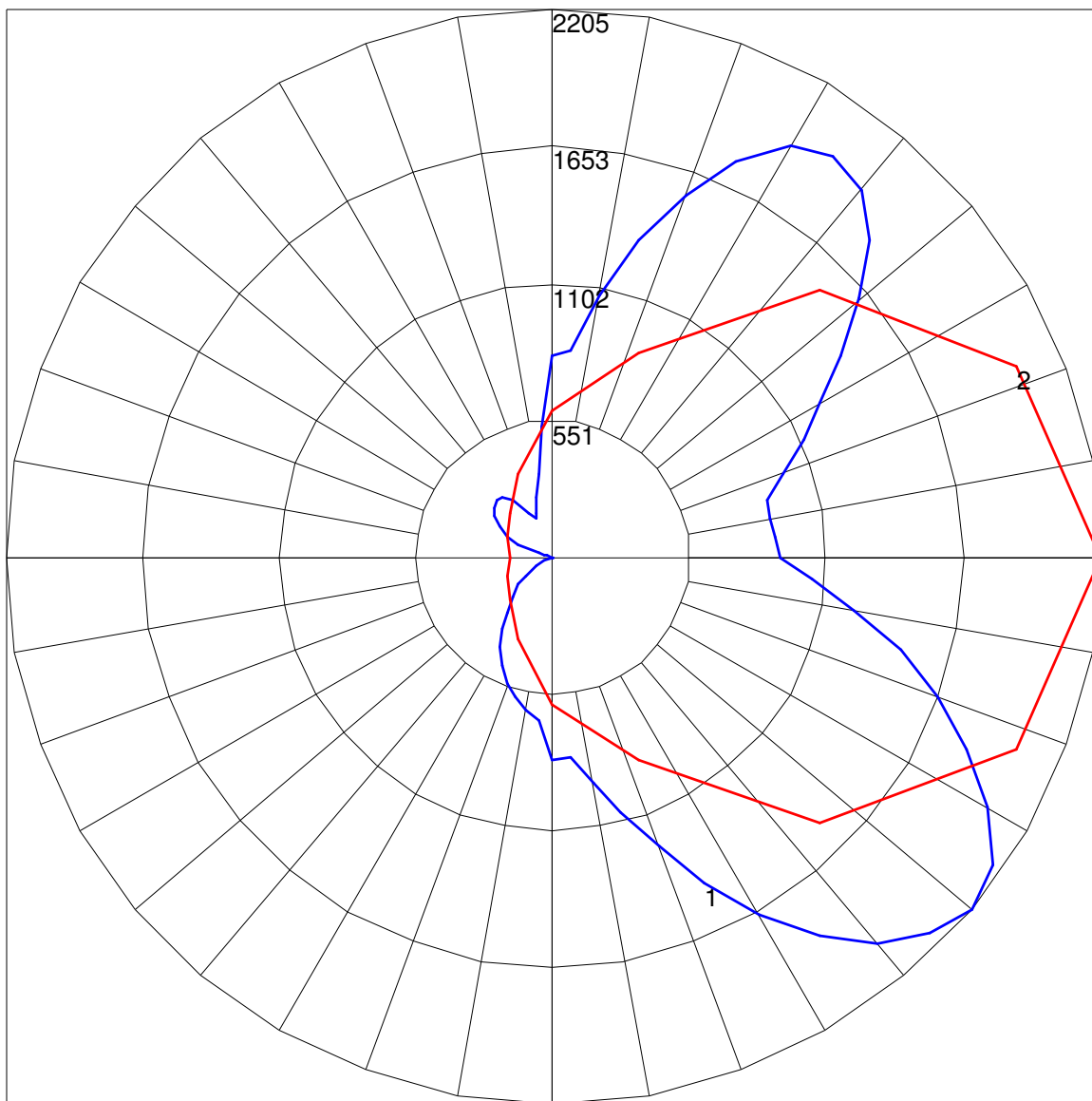
Reflectances

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	21.0	22.0	21.9	23.0	24.2	11.4	12.4	12.3	13.3	14.6
	3H	23.7	24.5	24.6	25.5	26.7	12.9	13.7	13.8	14.7	15.9
	4H	24.9	25.7	25.8	26.7	27.9	13.4	14.2	14.3	15.2	16.4
	6H	26.0	26.8	27.0	27.8	29.1	13.7	14.5	14.7	15.5	16.7
	8H	26.6	27.4	27.6	28.4	29.6	13.8	14.6	14.8	15.6	16.8
	12H	27.2	27.9	28.2	28.9	30.2	13.9	14.6	14.9	15.6	16.9
4H	2H	21.2	22.0	22.1	23.0	24.2	13.6	14.5	14.6	15.5	16.7
	3H	24.0	24.8	25.0	25.7	27.0	15.1	15.9	16.1	16.8	18.1
	4H	25.5	26.1	26.4	27.1	28.4	15.6	16.3	16.6	17.3	18.6
	6H	26.8	27.4	27.8	28.4	29.7	16.0	16.6	17.0	17.6	18.9
	8H	27.5	28.1	28.5	29.1	30.4	16.1	16.6	17.1	17.6	19.0
	12H	28.2	28.7	29.2	29.7	31.0	16.2	16.7	17.2	17.7	19.0
8H	4H	25.5	26.1	26.5	27.1	28.4	17.0	17.6	18.0	18.6	19.9
	6H	27.1	27.5	28.1	28.6	29.9	17.5	18.0	18.5	19.0	20.3
	8H	27.9	28.3	28.9	29.3	30.6	17.7	18.1	18.7	19.2	20.5
	12H	28.8	29.1	29.8	30.2	31.5	17.8	18.2	18.8	19.2	20.6
12H	4H	25.5	26.0	26.5	27.0	28.3	17.4	17.9	18.4	18.9	20.2
	6H	27.0	27.5	28.1	28.5	29.8	18.1	18.5	19.1	19.5	20.9
	8H	27.9	28.3	28.9	29.3	30.7	18.4	18.7	19.4	19.7	21.1

Maximum UGR = 31.5

POLAR GRAPH



Maximum Candela = 2204.54 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.)