

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 29-3-L40-835-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-L40-835-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	4101
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	31
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	5156	3835	2252
55	5480	3994	2136
65	5088	3674	1934
75	4600	3063	1672
85	4015	2524	1294

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 29-3-L40-835-AF-DRV-UNV\_.IES**

**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>	428.980	428.980	428.980	428.980	428.980	428.980	428.980	428.980	428.980
<b>5</b>	423.270	414.515	420.986	413.754	432.405	378.355	365.032	352.091	347.904
<b>10</b>	483.030	466.282	457.528	429.741	431.264	370.742	347.904	331.917	328.110
<b>15</b>	557.255	533.275	497.875	445.347	428.980	360.845	328.110	312.885	305.653
<b>20</b>	649.369	611.306	547.358	460.573	424.412	344.478	306.795	288.524	282.053
<b>25</b>	759.374	711.033	599.506	476.560	416.038	328.110	283.956	261.879	253.886
<b>30</b>	867.475	805.431	658.124	487.217	404.238	308.317	255.409	230.667	220.390
<b>35</b>	974.815	897.546	713.697	494.450	387.871	280.911	224.577	198.693	186.513
<b>40</b>	1064.266	977.480	758.993	493.688	366.936	250.460	191.842	165.958	152.636
<b>45</b>	1123.265	1031.911	789.825	485.314	340.291	218.867	161.391	134.746	121.804
<b>50</b>	1150.670	1054.369	794.012	464.379	309.459	186.513	129.417	103.914	92.876
<b>55</b>	1130.497	1031.911	768.890	433.547	275.582	156.062	99.727	76.889	67.373
<b>60</b>	1056.653	966.441	712.555	390.535	238.660	124.469	71.560	49.864	41.490
<b>65</b>	958.829	875.849	636.428	336.485	199.074	94.779	45.296	26.645	19.032
<b>70</b>	862.146	782.593	547.739	279.769	160.629	64.709	19.413	3.426	0.000
<b>75</b>	758.613	671.446	455.244	224.577	123.327	36.922	0.000	0.000	0.000
<b>80</b>	645.563	561.442	371.884	172.810	88.689	10.658	0.000	0.000	0.000
<b>85</b>	547.358	477.701	301.846	126.753	54.812	4.948	0.000	0.000	0.000
<b>90</b>	477.701	406.141	244.370	92.495	46.438	6.851	0.000	0.000	1.142
<b>95</b>	468.185	398.529	237.518	103.914	72.321	25.883	10.658	13.322	14.464
<b>100</b>	462.857	393.200	252.744	138.933	98.585	45.677	32.354	28.548	21.316
<b>105</b>	466.282	414.896	298.801	179.661	124.088	65.470	52.909	51.006	28.929
<b>110</b>	512.340	462.095	357.420	229.525	156.442	78.412	74.225	75.366	76.128
<b>115</b>	584.661	534.036	435.451	293.092	194.126	89.450	93.256	101.631	104.676
<b>120</b>	646.324	605.596	532.133	373.787	235.615	96.682	99.727	126.372	130.940
<b>125</b>	737.678	700.375	623.486	455.244	277.105	110.766	102.772	137.791	149.591
<b>130</b>	844.256	806.954	726.258	522.236	317.833	129.417	111.908	132.082	161.391
<b>135</b>	943.603	901.733	809.618	581.996	356.658	142.739	122.185	114.572	165.578
<b>140</b>	1009.454	967.583	861.766	620.060	385.587	147.307	129.417	111.908	162.533
<b>145</b>	1031.531	987.377	842.734	629.196	406.522	165.958	135.127	115.714	144.643
<b>150</b>	997.273	956.545	845.779	621.202	421.748	186.513	135.127	125.991	105.056
<b>155</b>	916.578	885.746	787.541	594.557	426.696	218.487	134.746	132.462	86.405
<b>160</b>	811.521	778.787	706.846	561.061	429.360	250.841	154.920	136.269	98.205
<b>165</b>	690.859	663.834	624.247	518.810	430.502	294.234	202.119	148.449	126.753
<b>170</b>	556.874	545.836	529.088	473.134	432.025	326.969	269.492	202.500	178.900
<b>175</b>	436.212	432.025	443.444	433.547	434.309	365.413	339.149	305.653	272.918
<b>180</b>	422.128	422.128	422.128	422.128	422.128	422.128	422.128	422.128	422.128

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 29-3-L40-835-AF-DRV-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	157.21	N.A.	3.80
0-30	364.52	N.A.	8.90
0-40	660.39	N.A.	16.10
0-60	1406.62	N.A.	34.30
0-80	1992.03	N.A.	48.60
0-90	2163.93	N.A.	52.80
10-90	2125.44	N.A.	51.80
20-40	503.19	N.A.	12.30
20-50	867.20	N.A.	21.10
40-70	1080.7	N.A.	26.40
60-80	585.41	N.A.	14.30
70-80	250.94	N.A.	6.10
80-90	171.90	N.A.	4.20
90-110	345.05	N.A.	8.40
90-120	603.84	N.A.	14.70
90-130	923.06	N.A.	22.50
90-150	1568.98	N.A.	38.30
90-180	1936.9	N.A.	47.20
110-180	1591.85	N.A.	38.80
0-180	4100.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	38.49
10-20	118.72
20-30	207.32
30-40	295.87
40-50	364.01
50-60	382.22
60-70	334.48
70-80	250.94
80-90	171.90
90-100	152.55
100-110	192.50
110-120	258.79
120-130	319.23
130-140	343.73
140-150	302.18
150-160	212.85
160-170	117.42
170-180	37.66

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 29-3-L40-835-AF-DRV-UNV\_.IES**

**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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 29-3-L40-835-AF-DRV-UNV\_.IES**

**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	18.7	19.7	19.6	20.7	21.9	9.1	10.1	10.0	11.0	12.3
	3H	21.4	22.2	22.3	23.2	24.4	10.6	11.4	11.5	12.4	13.6
	4H	22.6	23.4	23.5	24.4	25.6	11.1	11.9	12.0	12.9	14.1
	6H	23.7	24.5	24.7	25.5	26.8	11.4	12.2	12.4	13.2	14.4
	8H	24.3	25.1	25.3	26.1	27.3	11.5	12.3	12.5	13.3	14.5
	12H	24.9	25.6	25.9	26.6	27.9	11.6	12.3	12.6	13.3	14.6

UGR Viewed Endwise

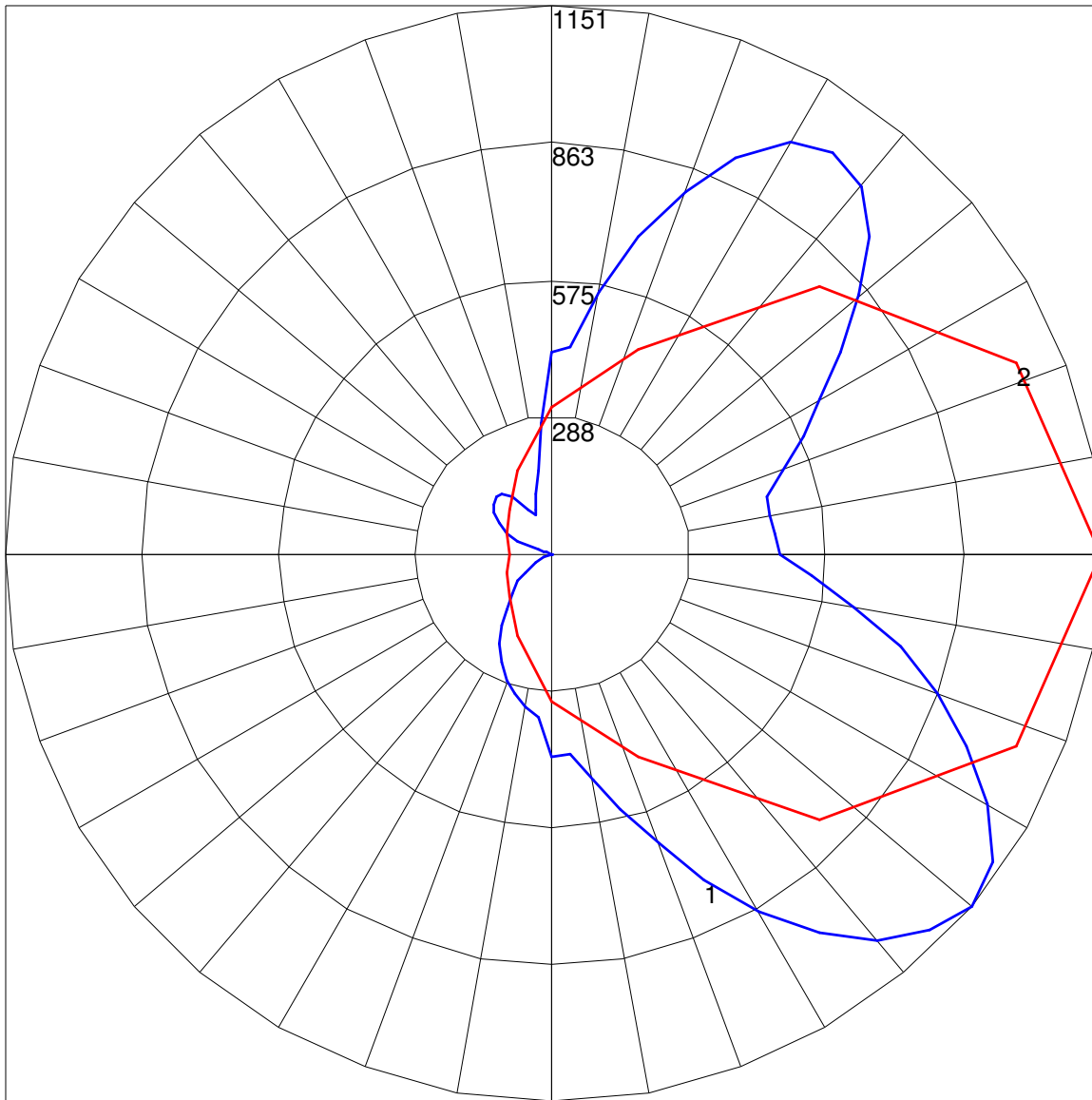
4H	2H	18.9	19.7	19.8	20.7	21.9	11.3	12.2	12.3	13.2	14.4
	3H	21.7	22.5	22.7	23.4	24.7	12.8	13.6	13.8	14.5	15.8
	4H	23.2	23.8	24.1	24.8	26.1	13.3	14.0	14.3	15.0	16.3
	6H	24.5	25.1	25.5	26.1	27.4	13.7	14.3	14.7	15.3	16.6
	8H	25.2	25.8	26.2	26.8	28.1	13.8	14.3	14.8	15.3	16.7
	12H	25.9	26.4	26.9	27.4	28.7	13.9	14.4	14.9	15.4	16.7

8H	4H	23.2	23.8	24.2	24.8	26.1	14.7	15.3	15.7	16.3	17.6
	6H	24.8	25.2	25.8	26.3	27.6	15.2	15.7	16.2	16.7	18.0
	8H	25.6	26.0	26.6	27.0	28.3	15.4	15.8	16.4	16.9	18.2
	12H	26.5	26.8	27.5	27.9	29.2	15.5	15.9	16.5	16.9	18.3

12H	4H	23.2	23.7	24.2	24.7	26.0	15.1	15.6	16.1	16.6	17.9
	6H	24.7	25.2	25.8	26.2	27.5	15.8	16.2	16.8	17.2	18.6
	8H	25.6	26.0	26.6	27.0	28.4	16.0	16.4	17.1	17.4	18.8

Maximum UGR = 29.2

POLAR GRAPH



Maximum Candela = 1150.67 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.)