



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 29-2-L27-840-AF-(L10)-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  
 [ISSUEDATE] 10-19-2023  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836  
 [LUMINAIRE] 2' WALL MNT BED LIGHT LED  
 [MORE] WITH FROSTED PRISMATIC DIFFUSER TOP/BTM  
 [LUMCAT] 29-2-L27-840-AF-(L10)-DIM-UNV  
 [LAMPCAT] HLM 80 CRI, 4000K 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	1020
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	7
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)	0.40 ft
Luminous Width (90-270)	2.00 ft
Luminous Height	0.23 ft



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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3399	2532	1458
55	3645	2664	1395
65	3420	2480	1277
75	3134	2100	1127
85	2787	1772	920

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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>	106.696	106.696	106.696	106.696	106.696	106.696	106.696	106.696	106.696
<b>5</b>	105.276	103.098	104.708	102.909	107.548	94.104	90.791	87.572	86.531
<b>10</b>	120.139	115.974	113.796	106.885	107.264	92.211	86.531	82.554	81.608
<b>15</b>	138.600	132.636	123.831	110.767	106.696	89.749	81.608	77.821	76.022
<b>20</b>	161.511	152.044	136.139	114.554	105.560	85.678	76.306	71.762	70.152
<b>25</b>	188.871	176.848	149.109	118.530	103.477	81.608	70.626	65.135	63.146
<b>30</b>	215.758	200.327	163.689	121.181	100.542	76.685	63.525	57.371	54.815
<b>35</b>	242.456	223.237	177.511	122.979	96.471	69.868	55.857	49.419	46.389
<b>40</b>	264.704	243.119	188.777	122.790	91.264	62.294	47.715	41.277	37.964
<b>45</b>	279.378	256.657	196.445	120.707	84.637	54.437	40.141	33.514	30.295
<b>50</b>	286.195	262.242	197.487	115.500	76.969	46.389	32.189	25.846	23.100
<b>55</b>	281.177	256.657	191.238	107.832	68.543	38.816	24.804	19.124	16.757
<b>60</b>	262.810	240.373	177.227	97.134	59.360	30.958	17.798	12.402	10.319
<b>65</b>	238.480	217.841	158.292	83.690	49.514	23.573	11.266	6.627	4.734
<b>70</b>	214.433	194.646	136.234	69.584	39.952	16.094	4.828	0.852	0.000
<b>75</b>	188.682	167.002	113.228	55.857	30.674	9.183	0.000	0.000	0.000
<b>80</b>	160.564	139.642	92.495	42.981	22.059	2.651	0.000	0.000	0.000
<b>85</b>	136.139	118.814	75.075	31.526	13.633	1.231	0.000	0.000	0.000
<b>90</b>	118.814	101.015	60.780	23.005	11.550	1.704	0.000	0.000	0.284
<b>95</b>	116.447	99.122	59.076	25.846	17.988	6.438	2.651	3.314	3.598
<b>100</b>	115.122	97.797	62.862	34.555	24.520	11.361	8.047	7.100	5.302
<b>105</b>	115.974	103.193	74.318	44.685	30.863	16.284	13.159	12.686	7.195
<b>110</b>	127.429	114.932	88.897	57.087	38.910	19.503	18.461	18.745	18.934
<b>115</b>	145.417	132.825	108.305	72.898	48.283	22.248	23.195	25.278	26.035
<b>120</b>	160.754	150.624	132.352	92.968	58.602	24.047	24.804	31.431	32.567
<b>125</b>	183.475	174.197	155.073	113.228	68.921	27.550	25.562	34.271	37.206
<b>130</b>	209.983	200.705	180.635	129.890	79.051	32.189	27.834	32.851	40.141
<b>135</b>	234.693	224.279	201.368	144.754	88.708	35.502	30.390	28.496	41.182
<b>140</b>	251.071	240.657	214.338	154.221	95.903	36.638	32.189	27.834	40.425
<b>145</b>	256.562	245.580	209.605	156.493	101.110	41.277	33.609	28.780	35.975
<b>150</b>	248.042	237.912	210.362	154.505	104.897	46.389	33.609	31.337	26.130
<b>155</b>	227.971	220.303	195.877	147.878	106.128	54.342	33.514	32.946	21.491
<b>160</b>	201.841	193.700	175.807	139.547	106.790	62.389	38.532	33.893	24.425
<b>165</b>	171.830	165.109	155.263	129.038	107.074	73.182	50.271	36.922	31.526
<b>170</b>	138.506	135.760	131.595	117.678	107.453	81.324	67.028	50.366	44.496
<b>175</b>	108.495	107.453	110.293	107.832	108.021	90.885	84.353	76.022	67.880
<b>180</b>	104.992	104.992	104.992	104.992	104.992	104.992	104.992	104.992	104.992

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	39.10	N.A.	3.80
0-30	90.66	N.A.	8.90
0-40	164.25	N.A.	16.10
0-60	349.85	N.A.	34.30
0-80	495.46	N.A.	48.60
0-90	538.21	N.A.	52.80
10-90	528.64	N.A.	51.80
20-40	125.15	N.A.	12.30
20-50	215.69	N.A.	21.10
40-70	268.79	N.A.	26.40
60-80	145.60	N.A.	14.30
70-80	62.41	N.A.	6.10
80-90	42.75	N.A.	4.20
90-110	85.82	N.A.	8.40
90-120	150.19	N.A.	14.70
90-130	229.58	N.A.	22.50
90-150	390.24	N.A.	38.30
90-180	481.75	N.A.	47.20
110-180	395.93	N.A.	38.80
0-180	1019.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	9.57
10-20	29.53
20-30	51.56
30-40	73.59
40-50	90.54
50-60	95.06
60-70	83.19
70-80	62.41
80-90	42.75
90-100	37.94
100-110	47.88
110-120	64.37
120-130	79.40
130-140	85.49
140-150	75.16
150-160	52.94
160-170	29.20
170-180	9.37

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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

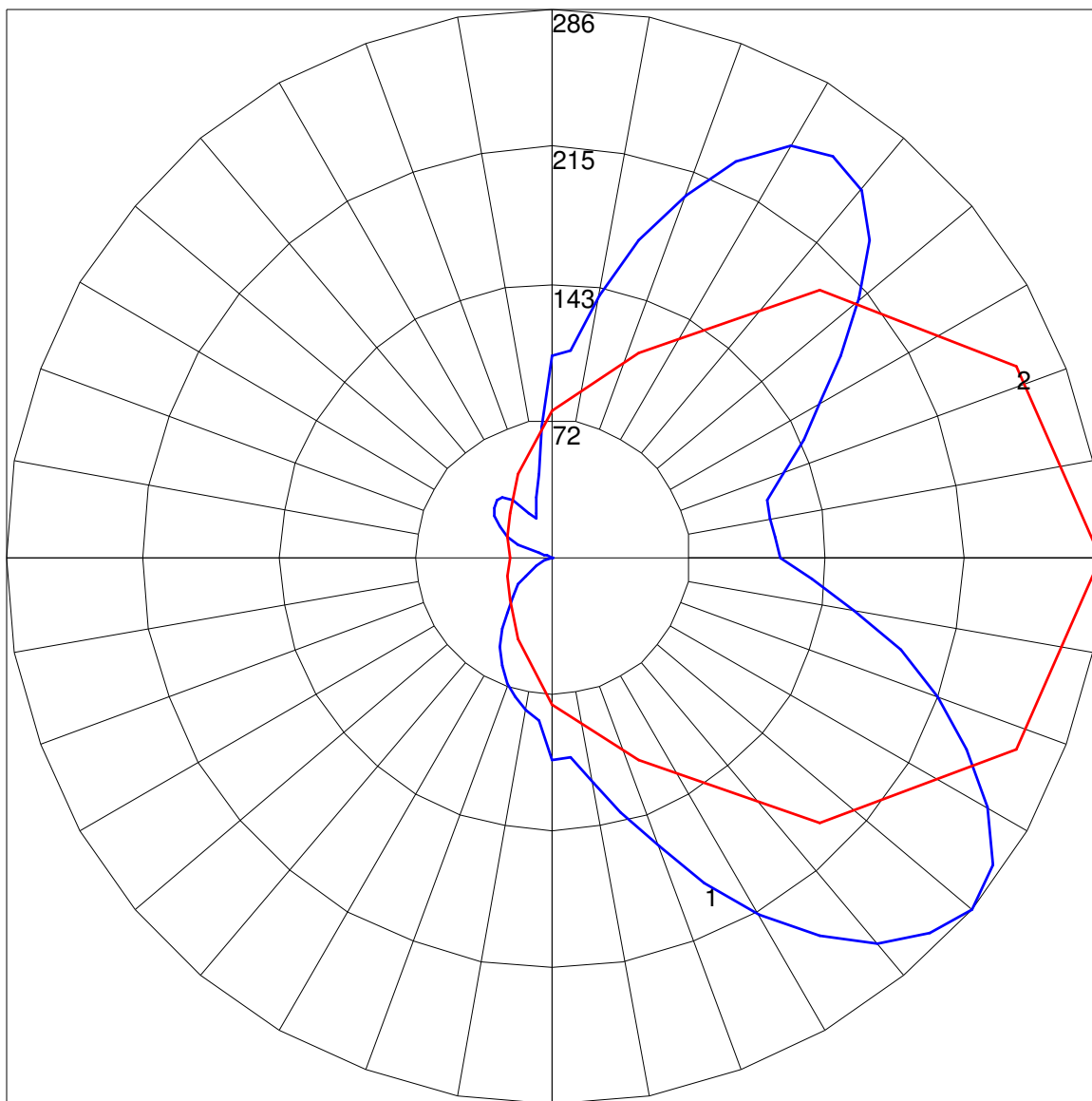
X=2H	Y=2H	17.3	18.3	18.3	19.3	20.5	7.8	8.7	8.7	9.7	10.9
	3H	20.0	20.9	20.9	21.8	23.1	9.2	10.1	10.1	11.1	12.3
	4H	21.2	22.1	22.1	23.0	24.3	9.7	10.6	10.7	11.5	12.8
	6H	22.4	23.2	23.4	24.2	25.4	10.1	10.9	11.0	11.8	13.1
	8H	23.0	23.8	24.0	24.7	26.0	10.2	11.0	11.2	11.9	13.2
	12H	23.6	24.3	24.6	25.3	26.6	10.3	11.0	11.3	12.0	13.3

UGR Viewed Endwise

4H	2H	17.5	18.3	18.4	19.3	20.6	10.0	10.8	10.9	11.8	13.1
	3H	20.4	21.1	21.3	22.1	23.4	11.5	12.2	12.4	13.2	14.5
	4H	21.8	22.5	22.8	23.5	24.7	12.0	12.7	13.0	13.6	14.9
	6H	23.2	23.8	24.2	24.8	26.1	12.4	12.9	13.3	13.9	15.2
	8H	23.9	24.5	24.9	25.5	26.8	12.5	13.0	13.5	14.0	15.3
	12H	24.6	25.1	25.6	26.2	27.5	12.6	13.1	13.6	14.1	15.4
8H	4H	21.9	22.4	22.9	23.4	24.7	13.4	13.9	14.4	14.9	16.2
	6H	23.4	23.9	24.4	24.9	26.2	13.9	14.4	14.9	15.4	16.7
	8H	24.3	24.7	25.3	25.7	27.0	14.1	14.5	15.1	15.6	16.9
	12H	25.2	25.6	26.2	26.6	28.0	14.2	14.6	15.3	15.6	17.0
12H	4H	21.8	22.3	22.8	23.3	24.7	13.8	14.3	14.8	15.3	16.6
	6H	23.4	23.9	24.4	24.9	26.2	14.5	14.9	15.5	15.9	17.3
	8H	24.3	24.7	25.3	25.7	27.1	14.8	15.1	15.8	16.2	17.5

Maximum UGR = 28.0

POLAR GRAPH



Maximum Candela = 286.195 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.)