



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 29-2-L27-827-AF-CT-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM BALLABS TEST NO. 20309.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUEDATE] 13-MAY-2021  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] 2' WALL MNT BED LIGHT w/CLOSED TOP  
 [MORE] WHITE REFL w/CLEAR BTM PRISMATIC DIFFUSER  
 [LUMCAT] 29-2-L27-827-AF-CT-DIM-UNV  
 [LAMPCAT] HLM2256-5630 REV B 10560222  
 [ \_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	2259
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	21.4
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	2.44
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.62
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	11195	9046	5553
55	11424	8938	5010
65	10518	8003	4263
75	9499	6711	3386
85	8474	5590	1869

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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>	470.032	470.032	470.032	470.032	470.032	470.032	470.032	470.032	470.032
<b>5</b>	519.995	518.338	519.995	493.001	486.844	451.326	435.224	421.253	405.151
<b>10</b>	572.326	567.354	550.778	506.025	482.109	431.198	403.020	382.656	365.133
<b>15</b>	628.446	614.712	583.929	516.680	470.979	406.335	369.869	343.348	323.931
<b>20</b>	685.986	668.227	614.475	522.363	458.429	379.578	332.219	302.620	284.624
<b>25</b>	750.157	728.135	643.837	524.257	440.433	350.452	295.516	264.023	245.553
<b>30</b>	812.433	786.860	671.305	520.469	418.175	316.354	257.866	225.900	208.140
<b>35</b>	869.263	829.482	693.090	509.340	389.760	282.493	221.164	189.197	171.674
<b>40</b>	905.966	856.003	703.272	490.159	358.266	247.211	185.882	154.152	138.523
<b>45</b>	920.174	869.974	701.851	463.876	322.274	210.982	154.152	124.079	108.924
<b>50</b>	916.622	859.318	681.961	430.251	283.677	174.279	121.711	95.190	81.930
<b>55</b>	881.103	825.457	641.706	383.840	246.264	140.181	93.059	69.143	58.014
<b>60</b>	812.907	761.286	582.035	339.560	207.193	107.977	65.828	44.990	35.045
<b>65</b>	733.345	683.855	510.760	280.599	165.281	80.272	42.149	24.390	16.102
<b>70</b>	648.100	600.978	436.644	227.320	126.447	50.200	19.417	1.658	0.000
<b>75</b>	571.853	515.496	361.818	181.856	92.112	29.125	0.000	0.000	0.000
<b>80</b>	487.318	434.987	290.544	134.735	57.540	2.605	0.000	0.000	0.000
<b>85</b>	413.912	365.607	236.792	93.059	27.705	0.000	0.000	0.000	0.000
<b>90</b>	355.662	302.857	193.459	59.198	17.049	0.000	0.000	0.000	0.000
<b>95</b>	313.513	268.996	147.995	40.491	17.523	0.000	0.000	0.000	0.000
<b>100</b>	276.810	228.741	130.472	44.754	17.759	0.000	0.000	0.000	0.000
<b>105</b>	241.291	211.929	136.155	50.200	18.233	0.000	0.000	0.000	0.000
<b>110</b>	235.845	207.430	136.866	54.699	20.127	0.000	0.000	0.000	0.000
<b>115</b>	226.136	199.379	134.971	57.067	22.258	0.000	0.000	0.000	0.000
<b>120</b>	191.565	170.017	119.106	55.646	24.863	0.000	0.000	0.000	0.000
<b>125</b>	159.598	146.101	107.977	53.752	26.757	0.000	0.000	0.000	0.000
<b>130</b>	140.181	126.684	98.979	51.147	28.889	0.000	0.000	0.000	0.000
<b>135</b>	122.421	112.476	87.850	48.069	31.020	0.000	0.000	0.000	0.000
<b>140</b>	107.977	98.742	78.852	44.280	32.204	0.000	0.000	0.000	0.000
<b>145</b>	93.059	84.772	68.670	40.018	33.388	0.000	0.000	0.000	0.000
<b>150</b>	79.325	73.169	59.672	36.229	35.045	0.000	0.000	0.000	0.000
<b>155</b>	66.775	61.092	50.910	33.388	35.992	1.894	0.000	0.000	0.000
<b>160</b>	55.409	50.673	43.333	29.362	36.229	4.736	0.000	0.000	0.000
<b>165</b>	44.280	40.491	34.808	26.047	36.940	7.577	0.000	0.000	0.000
<b>170</b>	35.045	31.730	27.941	22.022	37.176	11.603	3.078	0.474	0.710
<b>175</b>	24.863	22.495	21.074	17.759	37.650	15.155	9.235	8.051	7.341
<b>180</b>	17.759	17.759	17.759	17.759	17.759	17.759	17.759	17.759	17.759

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	179.07	N.A.	7.90
0-30	395.37	N.A.	17.50
0-40	679.68	N.A.	30.10
0-60	1322.82	N.A.	58.60
0-80	1784.73	N.A.	79.00
0-90	1913.38	N.A.	84.70
10-90	1868.2	N.A.	82.70
20-40	500.62	N.A.	22.20
20-50	824.19	N.A.	36.50
40-70	910.79	N.A.	40.30
60-80	461.91	N.A.	20.40
70-80	194.26	N.A.	8.60
80-90	128.65	N.A.	5.70
90-110	159.59	N.A.	7.10
90-120	223.41	N.A.	9.90
90-130	270.30	N.A.	12.00
90-150	325.06	N.A.	14.40
90-180	345.55	N.A.	15.30
110-180	185.97	N.A.	8.20
0-180	2258.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	45.18
10-20	133.89
20-30	216.31
30-40	284.31
40-50	323.58
50-60	319.56
60-70	267.65
70-80	194.26
80-90	128.65
90-100	87.79
100-110	71.80
110-120	63.82
120-130	46.90
130-140	33.11
140-150	21.65
150-160	12.64
160-170	6.08
170-180	1.77

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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	115	115	115	115	111	111	111	111	103	103	103	95	95	95	88	88	88	85
1	103	97	92	88	99	94	89	85	86	83	79	80	77	74	74	71	69	66
2	93	83	76	69	88	80	73	67	74	68	63	68	64	60	63	60	56	53
3	84	72	64	56	80	70	61	55	64	58	52	60	54	49	55	50	46	43
4	76	63	54	47	73	61	52	46	57	49	44	52	46	41	49	43	39	36
5	70	56	47	40	67	54	45	39	50	43	37	47	40	35	43	38	33	31
6	64	50	41	34	61	48	40	33	45	38	32	42	35	30	39	33	29	27
7	59	45	36	30	57	44	35	29	41	33	28	38	31	27	35	30	25	23
8	55	41	32	26	53	40	31	26	37	30	25	35	28	24	32	27	23	20
9	51	37	29	23	49	36	28	23	34	27	22	32	26	21	30	24	20	18
10	48	34	26	21	46	33	26	21	31	24	20	29	23	19	28	22	18	16

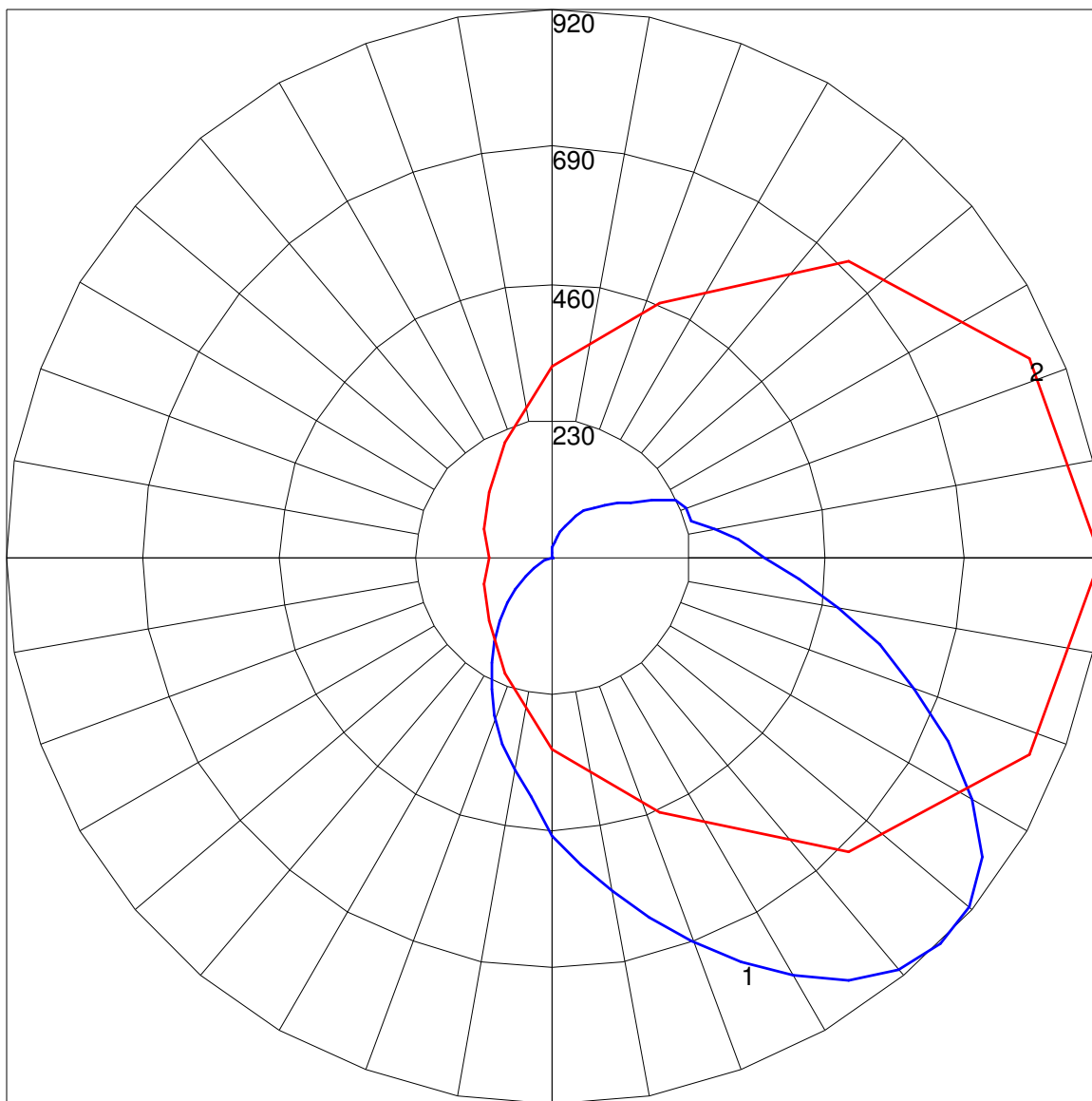
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**UGR TABLE - CORRECTED**

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	23.3	24.8	23.9	25.4	26.0	14.5	15.9	15.1	16.5	17.2
	3H	25.9	27.2	26.5	27.8	28.5	15.8	17.1	16.4	17.7	18.4
	4H	27.1	28.3	27.7	28.9	29.6	16.2	17.5	16.8	18.1	18.8
	6H	28.3	29.4	28.9	30.1	30.8	16.5	17.6	17.1	18.3	19.0
	8H	28.9	30.0	29.5	30.6	31.4	16.6	17.7	17.2	18.3	19.0
	12H	29.5	30.5	30.1	31.2	31.9	16.6	17.6	17.2	18.3	19.0
4H	2H	23.6	24.8	24.2	25.4	26.1	16.5	17.7	17.1	18.3	19.1
	3H	26.4	27.4	27.0	28.1	28.8	17.9	19.0	18.5	19.6	20.4
	4H	27.8	28.7	28.4	29.4	30.1	18.4	19.4	19.0	20.0	20.8
	6H	29.1	30.0	29.8	30.7	31.5	18.7	19.5	19.3	20.2	21.0
	8H	29.9	30.7	30.5	31.3	32.1	18.8	19.6	19.4	20.3	21.0
	12H	30.6	31.3	31.3	32.0	32.8	18.8	19.6	19.5	20.3	21.0
8H	4H	27.9	28.7	28.5	29.3	30.1	19.7	20.5	20.4	21.2	22.0
	6H	29.4	30.1	30.1	30.8	31.6	20.2	20.9	20.9	21.6	22.4
	8H	30.3	30.9	31.0	31.6	32.4	20.4	21.0	21.1	21.7	22.5
	12H	31.2	31.7	31.9	32.4	33.3	20.4	21.0	21.1	21.7	22.6
12H	4H	27.8	28.6	28.5	29.3	30.1	20.1	20.8	20.8	21.5	22.3
	6H	29.4	30.1	30.2	30.8	31.6	20.7	21.4	21.5	22.1	22.9
	8H	30.3	30.9	31.0	31.6	32.4	21.0	21.5	21.7	22.2	23.1

Maximum UGR = 33.3

POLAR GRAPH



Maximum Candela = 920.174 Located At Horizontal Angle = 0, Vertical Angle = 45  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)