



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 29-4-L54-827-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] LED 4' WALL MNT BED LIGHT w/CLOSED TOP  
 [MORE] WHITE REFL w/CLEAR BTM PRISMATIC DIFFUSER  
 [LUMCAT] 29-4-L54-827-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	4561
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	42.2
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)	3.96 ft
Luminous Height	0.23 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11422	9484	5968
55	11655	9436	5494
65	10731	8522	4820
75	9691	7229	4055
85	8645	6128	2651

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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>	949.013	949.013	949.013	949.013	949.013	949.013	949.013	949.013	949.013
<b>5</b>	1049.890	1046.543	1049.890	995.388	982.957	911.243	878.733	850.526	818.015
<b>10</b>	1155.548	1145.508	1112.042	1021.683	973.395	870.606	813.713	772.597	737.218
<b>15</b>	1268.856	1241.127	1178.975	1043.197	950.925	820.406	746.780	693.233	654.030
<b>20</b>	1385.033	1349.176	1240.649	1054.671	925.586	766.381	670.763	611.002	574.667
<b>25</b>	1514.596	1470.133	1299.932	1058.496	889.251	707.576	596.659	533.073	495.781
<b>30</b>	1640.334	1588.700	1355.391	1050.846	844.310	638.731	520.642	456.100	420.243
<b>35</b>	1755.076	1674.756	1399.375	1028.376	786.939	570.364	446.538	381.996	346.617
<b>40</b>	1829.180	1728.303	1419.933	989.650	723.353	499.128	375.302	311.238	279.684
<b>45</b>	1857.866	1756.510	1417.065	936.582	650.683	425.980	311.238	250.520	219.922
<b>50</b>	1850.694	1734.996	1376.905	868.693	572.754	351.876	245.739	192.193	165.420
<b>55</b>	1778.980	1666.629	1295.629	774.987	497.216	283.030	187.890	139.603	117.133
<b>60</b>	1641.290	1537.066	1175.150	685.584	418.331	218.010	132.910	90.837	70.758
<b>65</b>	1480.651	1380.730	1031.244	566.539	333.708	162.073	85.100	49.243	32.510
<b>70</b>	1308.538	1213.398	881.602	458.968	255.301	101.356	39.204	3.347	0.000
<b>75</b>	1154.592	1040.806	730.525	367.175	185.978	58.805	0.000	0.000	0.000
<b>80</b>	983.913	878.255	586.619	272.034	116.176	5.259	0.000	0.000	0.000
<b>85</b>	835.705	738.174	478.092	187.890	55.937	0.000	0.000	0.000	0.000
<b>90</b>	718.094	611.480	390.601	119.523	34.423	0.000	0.000	0.000	0.000
<b>95</b>	632.994	543.113	298.808	81.754	35.379	0.000	0.000	0.000	0.000
<b>100</b>	558.890	461.837	263.429	90.359	35.857	0.000	0.000	0.000	0.000
<b>105</b>	487.176	427.892	274.903	101.356	36.813	0.000	0.000	0.000	0.000
<b>110</b>	476.180	418.809	276.337	110.439	40.638	0.000	0.000	0.000	0.000
<b>115</b>	456.578	402.553	272.512	115.220	44.941	0.000	0.000	0.000	0.000
<b>120</b>	386.776	343.270	240.480	112.352	50.200	0.000	0.000	0.000	0.000
<b>125</b>	322.234	294.983	218.010	108.527	54.024	0.000	0.000	0.000	0.000
<b>130</b>	283.030	255.779	199.842	103.268	58.327	0.000	0.000	0.000	0.000
<b>135</b>	247.174	227.094	177.372	97.053	62.630	0.000	0.000	0.000	0.000
<b>140</b>	218.010	199.364	159.205	89.403	65.021	0.000	0.000	0.000	0.000
<b>145</b>	187.890	171.157	138.647	80.798	67.411	0.000	0.000	0.000	0.000
<b>150</b>	160.161	147.730	120.479	73.148	70.758	0.000	0.000	0.000	0.000
<b>155</b>	134.822	123.348	102.790	67.411	72.670	3.825	0.000	0.000	0.000
<b>160</b>	111.874	102.312	87.491	59.283	73.148	9.562	0.000	0.000	0.000
<b>165</b>	89.403	81.754	70.280	52.590	74.582	15.299	0.000	0.000	0.000
<b>170</b>	70.758	64.064	56.415	44.463	75.060	23.427	6.215	0.956	1.434
<b>175</b>	50.200	45.419	42.550	35.857	76.017	30.598	18.646	16.255	14.821
<b>180</b>	35.857	35.857	35.857	35.857	35.857	35.857	35.857	35.857	35.857

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	361.54	N.A.	7.90
0-30	798.27	N.A.	17.50
0-40	1372.3	N.A.	30.10
0-60	2670.83	N.A.	58.60
0-80	3603.44	N.A.	79.00
0-90	3863.19	N.A.	84.70
10-90	3771.97	N.A.	82.70
20-40	1010.76	N.A.	22.20
20-50	1664.07	N.A.	36.50
40-70	1838.91	N.A.	40.30
60-80	932.62	N.A.	20.40
70-80	392.23	N.A.	8.60
80-90	259.74	N.A.	5.70
90-110	322.21	N.A.	7.10
90-120	451.07	N.A.	9.90
90-130	545.75	N.A.	12.00
90-150	656.30	N.A.	14.40
90-180	697.68	N.A.	15.30
110-180	375.47	N.A.	8.20
0-180	4560.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	91.21
10-20	270.33
20-30	436.73
30-40	574.03
40-50	653.31
50-60	645.21
60-70	540.39
70-80	392.23
80-90	259.74
90-100	177.25
100-110	144.96
110-120	128.85
120-130	94.69
130-140	66.85
140-150	43.70
150-160	25.52
160-170	12.28
170-180	3.58

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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

X=2H	Y=2H	23.7	25.1	24.3	25.7	26.4	14.7	16.1	15.3	16.7	17.4
	3H	26.3	27.6	26.9	28.2	28.9	16.0	17.3	16.5	17.9	18.6
	4H	27.5	28.8	28.1	29.4	30.1	16.4	17.6	17.0	18.2	18.9
	6H	28.8	30.0	29.4	30.6	31.3	16.7	17.8	17.3	18.4	19.2
	8H	29.5	30.6	30.1	31.2	31.9	16.7	17.8	17.4	18.5	19.2
	12H	30.2	31.2	30.8	31.8	32.6	16.8	17.8	17.4	18.5	19.2

UGR Viewed Endwise

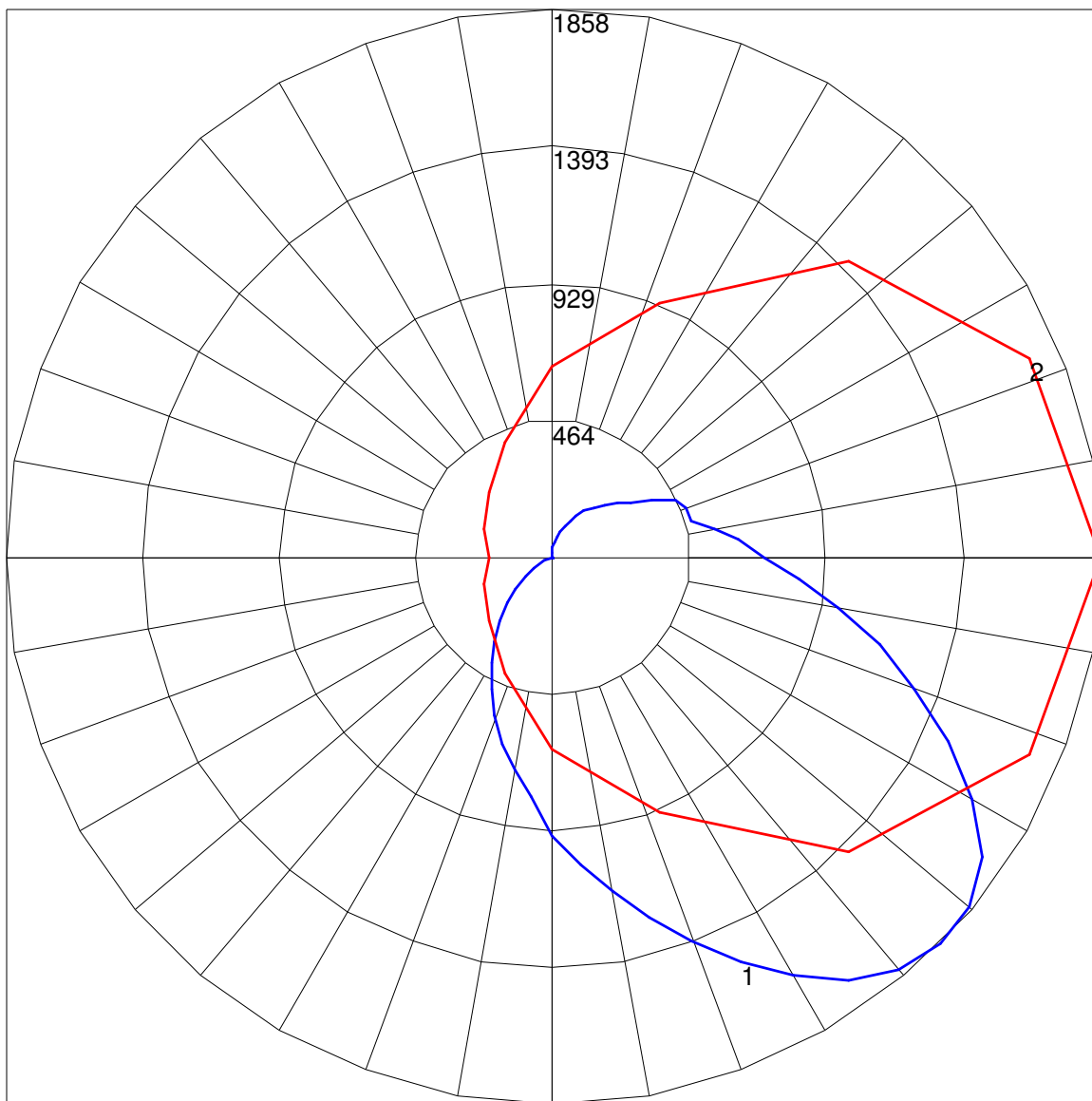
4H	2H	23.9	25.1	24.5	25.7	26.5	16.7	18.0	17.3	18.6	19.3
	3H	26.7	27.8	27.4	28.4	29.2	18.1	19.2	18.8	19.8	20.6
	4H	28.2	29.2	28.8	29.8	30.6	18.6	19.6	19.2	20.2	21.0
	6H	29.7	30.5	30.3	31.2	32.0	18.9	19.8	19.6	20.4	21.2
	8H	30.4	31.2	31.1	31.9	32.7	19.0	19.8	19.7	20.5	21.3
	12H	31.2	32.0	31.9	32.7	33.5	19.0	19.8	19.7	20.5	21.3

8H	4H	28.3	29.1	29.0	29.8	30.6	20.0	20.8	20.6	21.5	22.2
	6H	29.9	30.6	30.6	31.3	32.1	20.4	21.1	21.1	21.9	22.6
	8H	30.8	31.4	31.5	32.2	33.0	20.6	21.2	21.3	21.9	22.7
	12H	31.8	32.4	32.5	33.1	33.9	20.7	21.2	21.4	22.0	22.8

12H	4H	28.3	29.0	29.0	29.7	30.5	20.4	21.1	21.1	21.8	22.6
	6H	29.9	30.6	30.7	31.3	32.1	21.0	21.6	21.7	22.3	23.2
	8H	30.9	31.4	31.6	32.1	33.0	21.2	21.8	22.0	22.5	23.4

Maximum UGR = 33.9

POLAR GRAPH



Maximum Candela = 1857.866 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.)