



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTS-14-L27-835-RA-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM BALLABS TEST NO. 19323.0  
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
[ISSUEDATE] 12-05-2022  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
[LUMINAIRE] 1x4' SURFACE MOUNT LED LUMINAIRE  
[MORE] WHITE REFLECTOR w/WHITE RIBBED ACRYLIC LENS  
[LUMCAT] PTS-14-L27-835-RA-DIM-UNV  
[LAMPCAT] HLM 80 CRI 3500K CCT  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Indoor, Architectural, Office, Direct  
[SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2723
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	21.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	0.94 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2549	2662	2701
55	2249	2472	2576
65	1957	2320	2380
75	1422	1992	2077
85	648	1066	1254

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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>
<b>0</b>	992.332	992.332	992.332	992.332	992.332
<b>5</b>	1014.744	1007.273	1003.538	994.200	988.597
<b>10</b>	997.313	991.710	989.842	979.882	974.901
<b>15</b>	969.921	964.941	967.431	955.602	955.602
<b>20</b>	930.701	928.833	933.191	921.985	925.720
<b>25</b>	887.123	882.765	891.481	883.388	880.897
<b>30</b>	836.074	827.981	840.432	836.074	834.829
<b>35</b>	771.952	765.727	781.913	778.800	782.536
<b>40</b>	697.247	696.002	713.434	715.924	712.811
<b>45</b>	615.694	617.562	643.086	648.689	652.424
<b>50</b>	529.161	538.499	565.268	578.964	578.964
<b>55</b>	440.760	458.191	484.338	511.107	504.882
<b>60</b>	361.075	376.016	407.143	428.932	425.819
<b>65</b>	282.634	295.708	334.928	350.491	343.643
<b>70</b>	201.704	225.983	258.355	265.826	262.713
<b>75</b>	125.754	158.126	176.179	183.650	183.650
<b>80</b>	64.122	94.004	100.852	106.455	102.097
<b>85</b>	19.299	36.730	31.750	34.862	37.353
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	366.45	N.A.	13.50
0-30	774.36	N.A.	28.40
0-40	1259.09	N.A.	46.20
0-60	2179.73	N.A.	80.00
0-80	2678.94	N.A.	98.40
0-90	2723.01	N.A.	100.00
10-90	2628.04	N.A.	96.50
20-40	892.65	N.A.	32.80
20-50	1382.87	N.A.	50.80
40-70	1240.99	N.A.	45.60
60-80	499.21	N.A.	18.30
70-80	178.86	N.A.	6.60
80-90	44.07	N.A.	1.60
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2723.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	94.97
10-20	271.47
20-30	407.92
30-40	484.73
40-50	490.23
50-60	430.41
60-70	320.35
70-80	178.86
80-90	44.07
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	78	71	65	76	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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**UGR TABLE - CORRECTED**

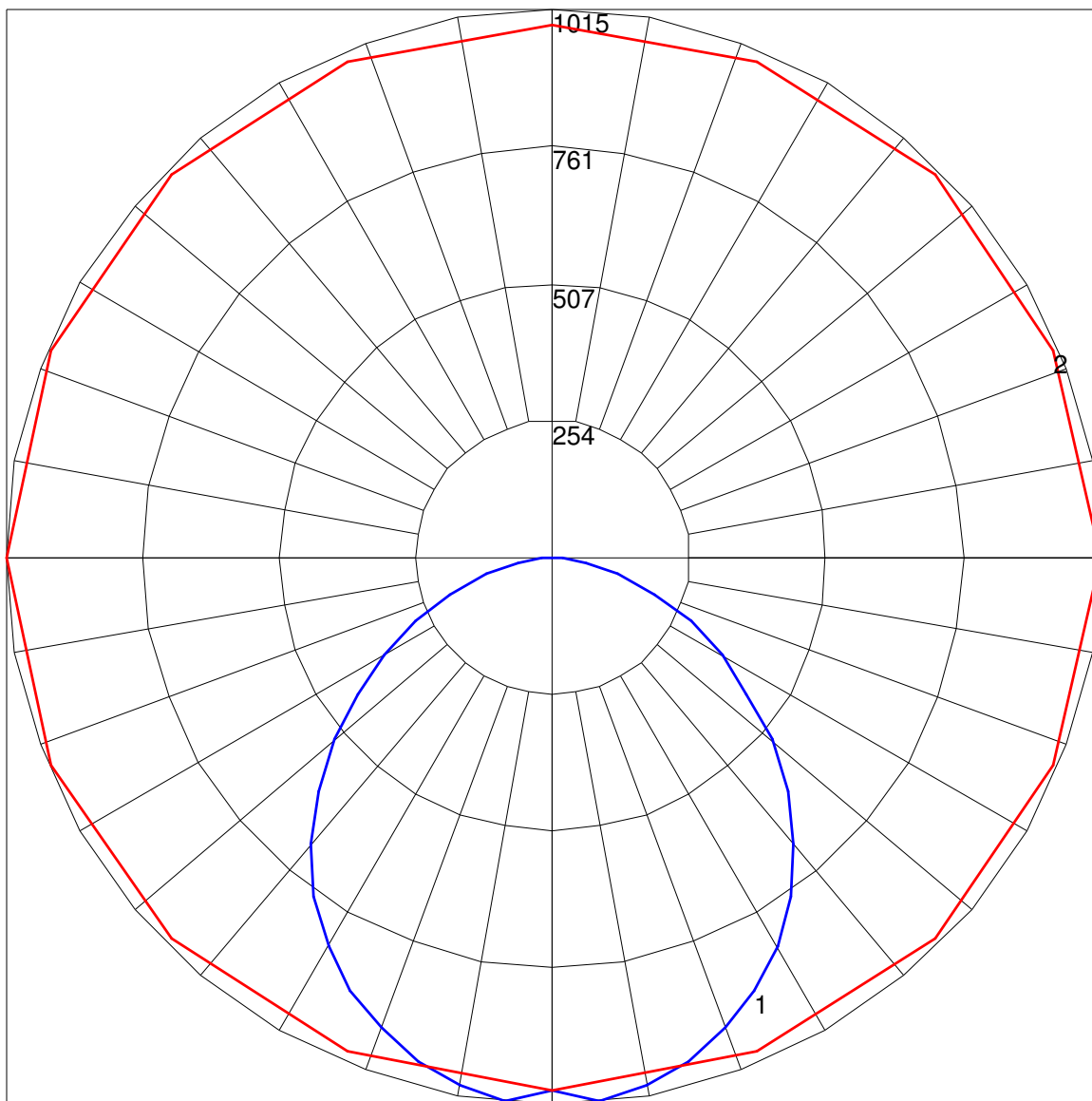
Reflectances

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	14.8	16.4	15.1	16.7	17.0	15.6	17.2	16.0	17.6	17.9
	3H	16.3	17.8	16.7	18.1	18.5	17.4	18.9	17.8	19.2	19.6
	4H	16.8	18.2	17.2	18.6	18.9	18.1	19.4	18.5	19.8	20.2
	6H	17.1	18.4	17.6	18.8	19.2	18.5	19.8	18.9	20.1	20.5
	8H	17.2	18.4	17.6	18.8	19.2	18.6	19.8	19.0	20.2	20.6
	12H	17.2	18.4	17.7	18.8	19.2	18.7	19.9	19.1	20.2	20.7
4H	2H	15.5	16.9	15.9	17.2	17.6	16.2	17.6	16.6	17.9	18.3
	3H	17.3	18.5	17.7	18.9	19.3	18.2	19.4	18.6	19.8	20.2
	4H	18.0	19.0	18.4	19.4	19.9	19.0	20.0	19.4	20.5	20.9
	6H	18.4	19.3	18.9	19.8	20.2	19.6	20.5	20.0	20.9	21.4
	8H	18.5	19.4	19.0	19.8	20.3	19.7	20.6	20.2	21.0	21.5
	12H	18.6	19.4	19.1	19.8	20.3	19.8	20.6	20.3	21.1	21.6
8H	4H	18.4	19.2	18.8	19.7	20.1	19.3	20.1	19.7	20.6	21.0
	6H	19.0	19.7	19.4	20.1	20.6	20.0	20.7	20.5	21.2	21.6
	8H	19.1	19.8	19.6	20.3	20.8	20.2	20.8	20.7	21.3	21.8
	12H	19.3	19.8	19.8	20.3	20.9	20.3	20.9	20.8	21.4	22.0
12H	4H	18.4	19.2	18.9	19.7	20.1	19.3	20.1	19.8	20.5	21.0
	6H	19.0	19.7	19.5	20.1	20.7	20.0	20.6	20.5	21.1	21.6
	8H	19.3	19.8	19.8	20.3	20.9	20.3	20.8	20.8	21.3	21.9

Maximum UGR = 22.0

POLAR GRAPH



Maximum Candela = 1014.744 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)