



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTS-24-L49-830-RA-EM12W-DIM-UNV\_(EMER MODE).IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]GEN FROM BALLABS TEST NO. 19235.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUEDATE] 01-23-23  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] 2-72LED 22"ARRAYS 2x4'SURFACE LUMINAIRE  
 [MORE] WHITE REFLECTOR w/RIBBED FROSTED ACRYLIC CENTER DIFFUSER  
 [MORE] EVERLINE DRIVER #D21CC80UNVTZ-D @ 2100mA  
 [LUMCAT] PTS-24-L49-830-RA-EM12W-DIM-UNV  
 [LAMPCAT] M700C835D72N2S  
 [\_SEARCH\_SOURCETYPE] LED  
 [\_SEARCH\_APPLICATION] Indoor, Architectural, Office, Direct  
 [\_SEARCH\_MOUNTING] Surface

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1572
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	12
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	674	711	748
55	604	661	714
65	531	629	715
75	411	631	781
85	248	828	949

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	601.413	601.413	601.413	601.413	601.413
<b>5</b>	592.229	591.413	591.413	589.372	588.352
<b>10</b>	590.393	590.393	591.413	592.229	592.229
<b>15</b>	574.883	575.699	576.720	578.148	579.169
<b>20</b>	536.925	538.966	541.414	544.680	545.700
<b>25</b>	506.517	508.354	513.252	517.538	519.578
<b>30</b>	443.866	430.193	486.110	469.988	467.539
<b>35</b>	409.377	413.255	422.438	430.193	433.254
<b>40</b>	364.276	369.174	379.378	389.582	393.459
<b>45</b>	332.848	337.134	351.215	364.276	369.174
<b>50</b>	289.176	295.911	311.420	325.094	329.787
<b>55</b>	242.034	249.381	264.891	280.401	286.115
<b>60</b>	197.342	205.097	222.647	238.565	244.483
<b>65</b>	156.731	166.934	185.709	204.280	211.015
<b>70</b>	115.507	127.548	149.792	169.383	176.118
<b>75</b>	74.284	89.181	114.079	133.874	141.221
<b>80</b>	40.815	60.203	88.773	108.160	114.079
<b>85</b>	15.102	34.489	50.407	56.733	57.754
<b>90</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : PTS-24-L49-830-RA-EM12W-DIM-UNV\_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	218.01	N.A.	13.90
0-30	451.83	N.A.	28.70
0-40	715.40	N.A.	45.50
0-60	1221.75	N.A.	77.70
0-80	1525.03	N.A.	97.00
0-90	1572.04	N.A.	100.00
10-90	1515.51	N.A.	96.40
20-40	497.39	N.A.	31.60
20-50	766.23	N.A.	48.70
40-70	689.69	N.A.	43.90
60-80	303.28	N.A.	19.30
70-80	119.93	N.A.	7.60
80-90	47.01	N.A.	3.00
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	1572.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	56.53
10-20	161.48
20-30	233.82
30-40	263.57
40-50	268.84
50-60	237.51
60-70	183.35
70-80	119.93
80-90	47.01
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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	33	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

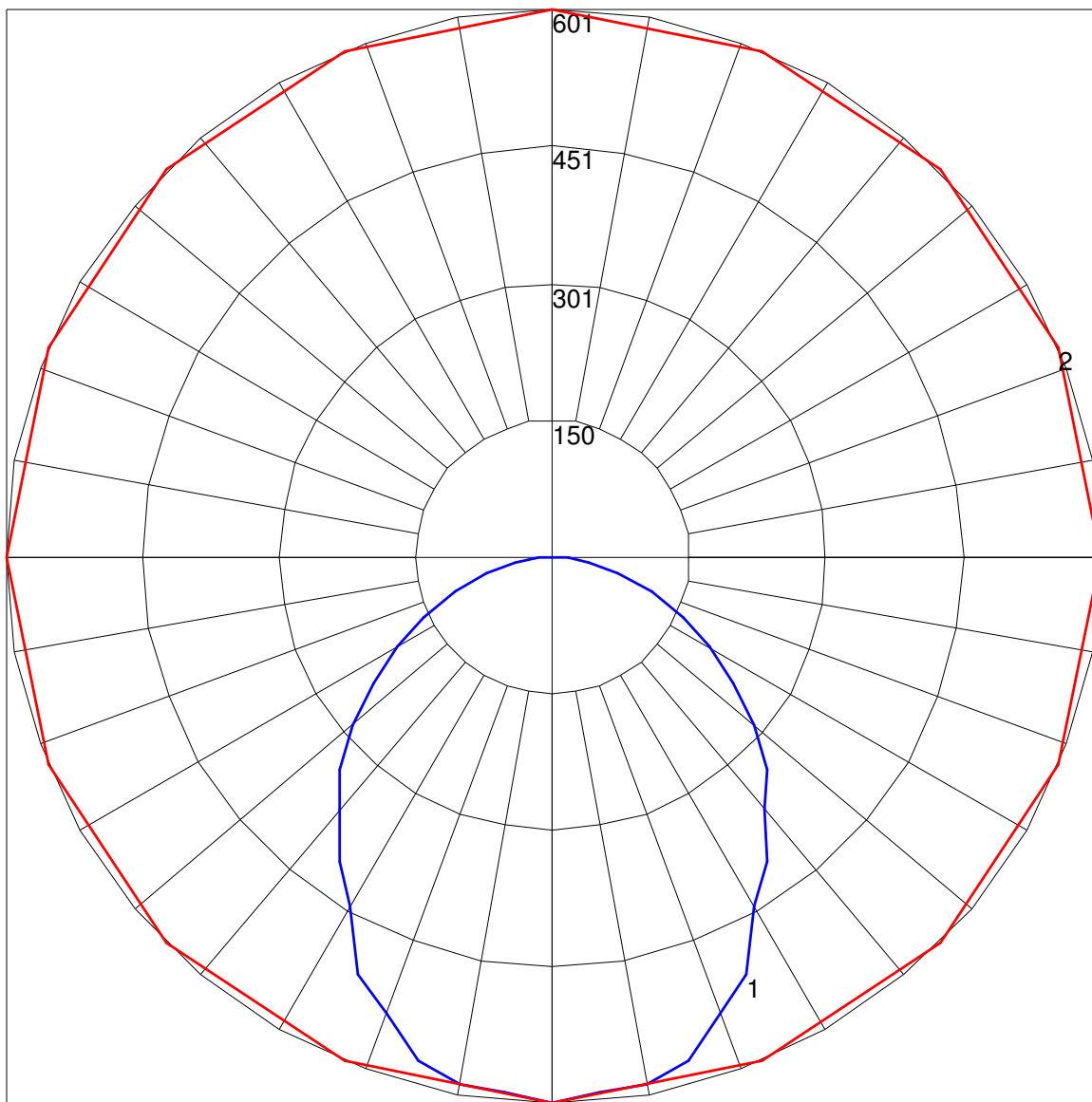
X=2H	Y=2H	10.0	11.6	10.3	11.9	12.2	11.0	12.6	11.3	12.9	13.2
	3H	11.6	13.1	12.0	13.4	13.8	13.1	14.6	13.5	15.0	15.3
	4H	12.2	13.6	12.6	13.9	14.3	14.1	15.5	14.5	15.9	16.3
	6H	12.5	13.9	13.0	14.2	14.6	15.2	16.5	15.6	16.8	17.2
	8H	12.7	13.9	13.1	14.3	14.7	15.6	16.8	16.0	17.2	17.6
	12H	12.7	13.9	13.2	14.3	14.7	15.9	17.1	16.4	17.5	17.9

### UGR Viewed Endwise

4H	2H	10.7	12.1	11.1	12.5	12.9	11.5	12.9	11.9	13.3	13.6
	3H	12.6	13.8	13.1	14.2	14.6	14.0	15.2	14.4	15.6	16.0
	4H	13.3	14.4	13.8	14.8	15.3	15.1	16.2	15.6	16.6	17.1
	6H	13.9	14.8	14.3	15.3	15.7	16.4	17.3	16.8	17.8	18.2
	8H	14.0	14.9	14.5	15.4	15.8	16.9	17.8	17.4	18.2	18.7
	12H	14.2	15.0	14.7	15.4	15.9	17.3	18.1	17.8	18.6	19.1
8H	4H	13.9	14.8	14.4	15.3	15.7	15.5	16.4	15.9	16.8	17.3
	6H	14.7	15.4	15.2	15.9	16.4	16.9	17.7	17.4	18.2	18.6
	8H	15.0	15.6	15.5	16.1	16.6	17.6	18.3	18.1	18.8	19.2
	12H	15.2	15.8	15.7	16.3	16.8	18.2	18.7	18.7	19.2	19.8
12H	4H	14.1	14.9	14.6	15.4	15.8	15.5	16.3	16.0	16.8	17.3
	6H	14.9	15.6	15.5	16.1	16.6	17.0	17.7	17.6	18.2	18.7
	8H	15.3	15.9	15.8	16.4	17.0	17.8	18.3	18.3	18.8	19.4

Maximum UGR = 19.8

POLAR GRAPH



Maximum Candela = 601.413 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)