



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTS-22-L38-830-RA-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]GEN from BALLABS TEST NO. 19562.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUEDATE] 01-23-23  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] 1-22" LED ARRAY 2x2'RECESSED LUMINAIRE  
 [MORE] WHITE REFLECTOR w/CENTER FROSTED RIBBED ACRYLIC LENS  
 [MORE] EVERLINE #D10CC55UNVTZ-C @ 76 SETPOINT  
 [LUMCAT] PTS-22-L38-830-RA-DIM-UNV  
 [LAMPCAT] M700C840D72N2A  
 [\_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	3725
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	31.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.93 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3500	3630	3749
55	2959	3261	3479
65	2262	2829	3146
75	1572	2509	3101
85	895	2047	2558

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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>	1423.702	1423.702	1423.702	1423.702	1423.702
<b>5</b>	1428.489	1419.872	1417.958	1413.170	1413.170
<b>10</b>	1409.341	1400.724	1399.766	1394.979	1394.022
<b>15</b>	1375.831	1366.256	1365.299	1363.384	1362.426
<b>20</b>	1327.959	1319.342	1318.385	1319.342	1319.342
<b>25</b>	1260.939	1252.322	1258.066	1261.896	1258.066
<b>30</b>	1178.599	1174.770	1180.514	1187.216	1182.429
<b>35</b>	1083.814	1082.856	1095.303	1100.090	1104.877
<b>40</b>	974.666	974.666	995.730	1004.347	1012.006
<b>45</b>	850.200	850.200	881.795	901.901	910.518
<b>50</b>	719.032	719.989	762.116	788.924	801.371
<b>55</b>	583.076	593.608	642.437	671.160	685.522
<b>60</b>	449.993	471.057	519.886	551.481	566.800
<b>65</b>	328.399	356.165	410.739	445.206	456.695
<b>70</b>	221.167	255.634	310.208	345.633	359.037
<b>75</b>	139.785	173.295	223.082	258.507	275.741
<b>80</b>	75.637	104.360	148.402	173.295	190.529
<b>85</b>	26.808	46.914	61.276	61.276	76.595
<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	520.17	N.A.	14.00
0-30	1099.19	N.A.	29.50
0-40	1781.93	N.A.	47.80
0-60	3027.24	N.A.	81.30
0-80	3657.03	N.A.	98.20
0-90	3725.18	N.A.	100.00
10-90	3590.43	N.A.	96.40
20-40	1261.76	N.A.	33.90
20-50	1938.77	N.A.	52.00
40-70	1645.11	N.A.	44.20
60-80	629.80	N.A.	16.90
70-80	230.00	N.A.	6.20
80-90	68.15	N.A.	1.80
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	3725.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	134.75
10-20	385.42
20-30	579.02
30-40	682.74
40-50	677.01
50-60	568.30
60-70	399.80
70-80	230.00
80-90	68.15
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	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	100	91	85	79	97	90	83	78	86	81	76	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	63	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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**UGR TABLE - CORRECTED**

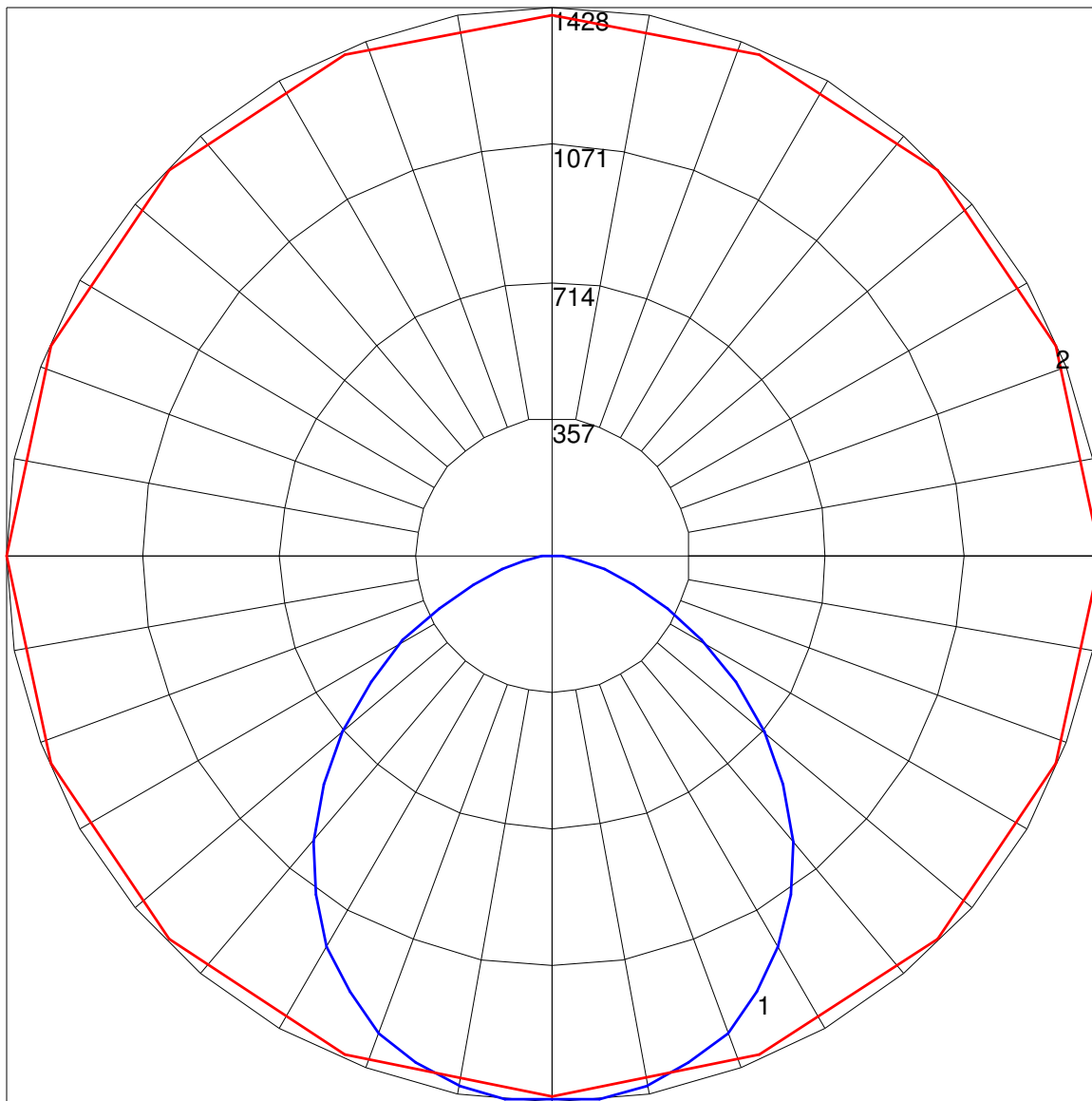
Reflectances

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	15.4	17.0	15.7	17.3	17.6	16.4	18.0	16.8	18.3	18.6
	3H	16.7	18.1	17.0	18.4	18.8	18.2	19.7	18.6	20.0	20.4
	4H	17.1	18.4	17.5	18.8	19.2	19.0	20.4	19.4	20.7	21.1
	6H	17.3	18.6	17.8	19.0	19.4	19.7	21.0	20.1	21.3	21.7
	8H	17.4	18.6	17.8	19.0	19.4	19.9	21.1	20.4	21.5	21.9
	12H	17.4	18.6	17.9	19.0	19.4	20.1	21.2	20.5	21.6	22.1
4H	2H	16.1	17.4	16.5	17.8	18.2	16.9	18.3	17.3	18.6	19.0
	3H	17.6	18.7	18.0	19.1	19.5	19.0	20.1	19.4	20.5	20.9
	4H	18.2	19.2	18.6	19.6	20.0	19.9	20.9	20.3	21.3	21.8
	6H	18.5	19.4	19.0	19.9	20.3	20.8	21.7	21.2	22.1	22.6
	8H	18.6	19.5	19.1	19.9	20.4	21.1	21.9	21.5	22.3	22.8
	12H	18.7	19.5	19.2	19.9	20.4	21.3	22.0	21.7	22.5	23.0
8H	4H	18.6	19.4	19.1	19.9	20.4	20.2	21.0	20.6	21.4	21.9
	6H	19.1	19.8	19.6	20.3	20.8	21.1	21.8	21.6	22.3	22.8
	8H	19.3	19.9	19.8	20.5	20.9	21.5	22.2	22.1	22.7	23.2
	12H	19.4	20.0	19.9	20.5	21.0	21.8	22.4	22.3	22.8	23.4
12H	4H	18.7	19.4	19.2	19.9	20.4	20.2	20.9	20.6	21.4	21.9
	6H	19.3	19.9	19.8	20.4	20.9	21.2	21.8	21.7	22.3	22.8
	8H	19.5	20.1	20.0	20.6	21.1	21.6	22.2	22.1	22.7	23.2

Maximum UGR = 23.4

POLAR GRAPH



Maximum Candela = 1428.489 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.)