



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTS-22-L38-835-RA-EM10W-DIM-UNV\_EMER MODE.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]GEN from BALLABS TEST NO. 19562.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUE DATE] 11-17-2021  
 [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-L38-835-RA-EM10W-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	1167
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	10
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	1096	1137	1174
55	927	1021	1090
65	709	886	985
75	493	786	972
85	281	641	801

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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>	445.985	445.985	445.985	445.985	445.985
<b>5</b>	447.485	444.786	444.186	442.686	442.686
<b>10</b>	441.487	438.787	438.487	436.988	436.688
<b>15</b>	430.989	427.990	427.690	427.090	426.790
<b>20</b>	415.993	413.294	412.994	413.294	413.294
<b>25</b>	394.998	392.299	394.099	395.298	394.099
<b>30</b>	369.205	368.005	369.805	371.904	370.405
<b>35</b>	339.513	339.213	343.112	344.611	346.111
<b>40</b>	305.322	305.322	311.920	314.619	317.019
<b>45</b>	266.332	266.332	276.229	282.527	285.227
<b>50</b>	225.242	225.542	238.739	247.136	251.035
<b>55</b>	182.653	185.952	201.248	210.246	214.745
<b>60</b>	140.964	147.562	162.858	172.756	177.554
<b>65</b>	102.874	111.571	128.667	139.464	143.063
<b>70</b>	69.282	80.079	97.175	108.272	112.471
<b>75</b>	43.789	54.286	69.882	80.979	86.378
<b>80</b>	23.694	32.692	46.488	54.286	59.685
<b>85</b>	8.398	14.696	19.195	19.195	23.994
<b>90</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : PTS-22-L38-835-RA-EM10W-DIM-UNV\_EMER MODE.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	162.95	N.A.	14.00
0-30	344.33	N.A.	29.50
0-40	558.20	N.A.	47.80
0-60	948.30	N.A.	81.30
0-80	1145.59	N.A.	98.20
0-90	1166.94	N.A.	100.00
10-90	1124.73	N.A.	96.40
20-40	395.26	N.A.	33.90
20-50	607.33	N.A.	52.00
40-70	515.34	N.A.	44.20
60-80	197.29	N.A.	16.90
70-80	72.05	N.A.	6.20
80-90	21.35	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	1166.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	42.21
10-20	120.73
20-30	181.38
30-40	213.87
40-50	212.08
50-60	178.02
60-70	125.24
70-80	72.05
80-90	21.35
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

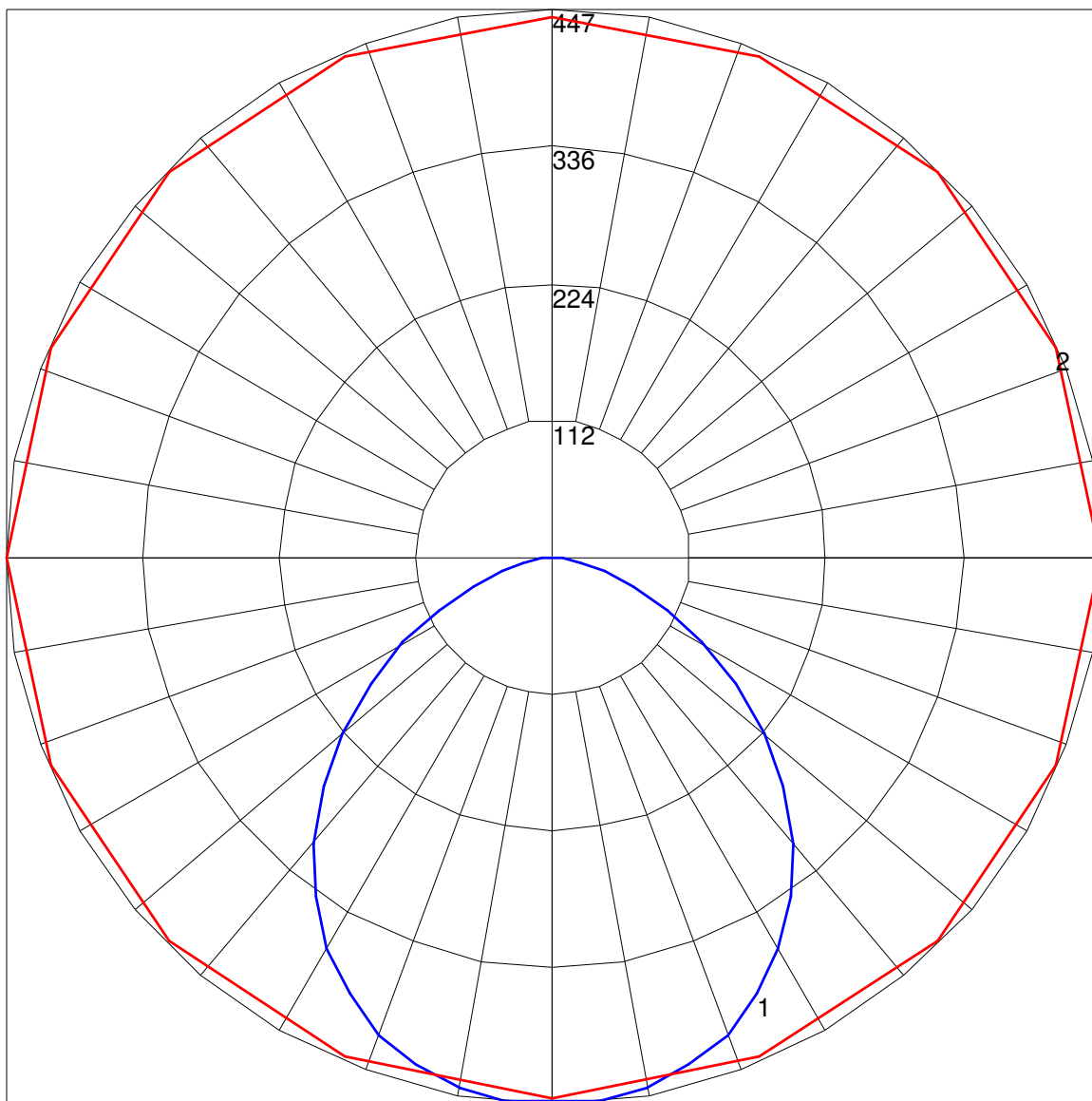
X=2H	Y=2H	11.3	12.9	11.6	13.2	13.5	12.3	13.9	12.7	14.2	14.5
	3H	12.6	14.0	12.9	14.3	14.7	14.1	15.6	14.5	15.9	16.3
	4H	13.0	14.3	13.4	14.7	15.1	14.9	16.3	15.3	16.6	17.0
	6H	13.2	14.5	13.7	14.9	15.3	15.6	16.9	16.0	17.2	17.6
	8H	13.3	14.5	13.7	14.9	15.3	15.8	17.0	16.3	17.4	17.8
	12H	13.3	14.5	13.8	14.9	15.3	16.0	17.1	16.4	17.5	18.0

### UGR Viewed Endwise

4H	2H	12.0	13.3	12.4	13.7	14.1	12.8	14.2	13.2	14.5	14.9
	3H	13.5	14.6	13.9	15.0	15.4	14.9	16.0	15.3	16.4	16.8
	4H	14.1	15.1	14.5	15.5	15.9	15.8	16.8	16.2	17.2	17.7
	6H	14.4	15.3	14.9	15.8	16.2	16.7	17.6	17.1	18.0	18.5
	8H	14.5	15.4	15.0	15.8	16.3	17.0	17.8	17.4	18.2	18.7
	12H	14.6	15.4	15.1	15.8	16.3	17.2	17.9	17.7	18.4	18.9
8H	4H	14.5	15.3	15.0	15.8	16.3	16.1	16.9	16.5	17.3	17.8
	6H	15.0	15.7	15.5	16.2	16.7	17.0	17.7	17.5	18.2	18.7
	8H	15.2	15.8	15.7	16.4	16.8	17.4	18.1	18.0	18.6	19.1
	12H	15.3	15.9	15.8	16.4	16.9	17.7	18.3	18.2	18.7	19.3
12H	4H	14.6	15.3	15.1	15.8	16.3	16.1	16.8	16.5	17.3	17.8
	6H	15.2	15.8	15.7	16.3	16.8	17.1	17.7	17.6	18.2	18.7
	8H	15.4	16.0	15.9	16.5	17.0	17.5	18.1	18.0	18.6	19.1

Maximum UGR = 19.3

POLAR GRAPH



Maximum Candela = 447.485 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.)