



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTS-24-L38-835-RA-(L30)-EM10W-DIM-UNV\_EMER MODE.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]GEN from BALLABS TEST NO. 19535.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUE DATE] 03-01-2022  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] 2-56 LED 22"ARRAYS 2x4'RECESSED LUMINAIRE  
 [MORE] WHITE REFLECTOR w/CENTER FROSTED RIBBED ACRYLIC LENS  
 [MORE] EVERLINE #D10CC55UNVTZ-C @ 1030mA  
 [LUMCAT] PTS-24-L38-835-RA-(L30)-EM10W-DIM-UNV  
 [LAMPCAT] M10CC840D56N2A

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1290
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.32
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	555	600	634
55	482	545	597
65	424	524	604
75	321	511	647
85	190	681	799

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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>	487.076	487.076	487.076	487.076	487.076
<b>5</b>	484.677	484.677	484.677	484.895	484.895
<b>10</b>	476.388	476.388	476.825	477.697	478.133
<b>15</b>	453.049	453.703	455.012	456.975	457.848
<b>20</b>	444.106	445.414	448.686	451.740	452.612
<b>25</b>	400.917	402.880	407.678	411.823	413.568
<b>30</b>	370.161	373.214	379.322	386.084	388.265
<b>35</b>	337.005	341.150	349.657	357.946	361.436
<b>40</b>	302.323	307.558	319.119	329.153	332.861
<b>45</b>	274.185	281.165	295.998	308.649	313.230
<b>50</b>	233.832	241.030	257.389	270.913	276.584
<b>55</b>	193.042	200.458	218.127	233.832	239.285
<b>60</b>	155.742	164.031	181.481	197.404	203.076
<b>65</b>	125.205	134.366	154.652	172.320	178.209
<b>70</b>	90.741	101.865	123.241	141.346	147.672
<b>75</b>	58.022	70.237	92.268	110.154	116.916
<b>80</b>	32.065	47.552	70.673	88.341	94.449
<b>85</b>	11.561	26.830	41.444	47.552	48.642
<b>90</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : PTS-24-L38-835-RA-(L30)-EM10W-DIM-UNV\_EMER MODE.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	175.82	N.A.	13.60
0-30	365.17	N.A.	28.30
0-40	583.94	N.A.	45.30
0-60	1003.67	N.A.	77.80
0-80	1251.78	N.A.	97.00
0-90	1290.01	N.A.	100.00
10-90	1243.99	N.A.	96.40
20-40	408.12	N.A.	31.60
20-50	633.01	N.A.	49.10
40-70	570.43	N.A.	44.20
60-80	248.12	N.A.	19.20
70-80	97.41	N.A.	7.60
80-90	38.23	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	1290.01	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	46.02
10-20	129.79
20-30	189.35
30-40	218.77
40-50	224.89
50-60	194.84
60-70	150.71
70-80	97.41
80-90	38.23
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	45	40	51	45	40	38
7	65	51	43	37	63	51	42	36	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	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	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	9.1	10.7	9.4	11.0	11.3	10.3	12.0	10.7	12.3	12.6
	3H	10.7	12.2	11.1	12.5	12.9	12.6	14.1	12.9	14.4	14.7
	4H	11.3	12.7	11.7	13.0	13.4	13.5	14.9	13.9	15.3	15.7
	6H	11.6	12.9	12.0	13.3	13.7	14.5	15.9	15.0	16.2	16.6
	8H	11.7	13.0	12.2	13.4	13.8	15.0	16.2	15.4	16.6	17.0
	12H	11.8	13.0	12.2	13.4	13.8	15.3	16.5	15.8	16.9	17.3

### UGR Viewed Endwise

4H	2H	9.9	11.3	10.3	11.7	12.1	10.9	12.3	11.3	12.7	13.0
	3H	11.8	13.0	12.2	13.4	13.8	13.4	14.6	13.8	15.0	15.4
	4H	12.5	13.5	12.9	14.0	14.4	14.5	15.6	15.0	16.0	16.5
	6H	13.0	13.9	13.4	14.4	14.8	15.8	16.7	16.2	17.1	17.6
	8H	13.1	14.0	13.6	14.5	14.9	16.3	17.2	16.7	17.6	18.1
	12H	13.3	14.1	13.8	14.5	15.0	16.7	17.5	17.2	18.0	18.4

8H	4H	13.1	14.0	13.5	14.4	14.9	14.8	15.7	15.3	16.2	16.6
	6H	13.8	14.5	14.3	15.0	15.5	16.3	17.0	16.8	17.5	18.0
	8H	14.1	14.7	14.6	15.3	15.7	16.9	17.6	17.4	18.1	18.6
	12H	14.3	14.9	14.8	15.4	15.9	17.5	18.1	18.0	18.6	19.1

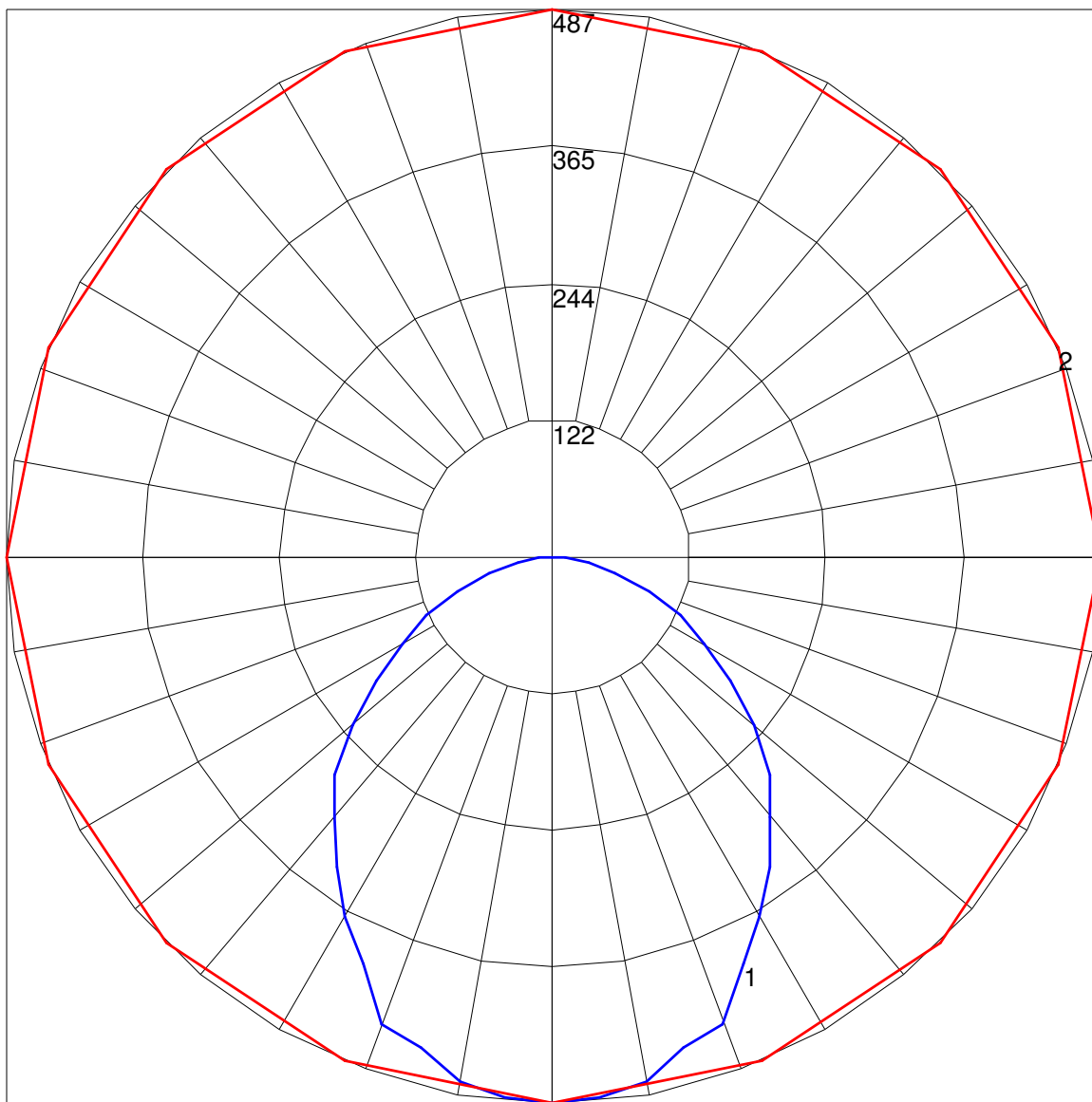
12H	4H	13.2	14.0	13.7	14.5	15.0	14.9	15.7	15.4	16.1	16.6
	6H	14.1	14.7	14.6	15.2	15.7	16.4	17.0	16.9	17.5	18.0
	8H	14.4	15.0	15.0	15.5	16.1	17.1	17.7	17.6	18.2	18.7

Maximum UGR = 19.1

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## POLAR GRAPH



Maximum Candela = 487.076 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.)