



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTS-22-L38-B35T-RA-DIM-UNV_.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] 18-MAY-2021

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 2x2 SURFACE LED LUMINAIRE

[MORE] WHITE REFLECTOR w/RIBBED FROSTED ACRYLIC CENTER DIFFUSER

[LUMCAT] PTS-22-L38-B35T-RA-DIM-UNV

[LAMPCAT] BIOS LED MODULES

[_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	3757
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	29.7
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)	1.92 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	3292	3474	3651
55	2951	3230	3489
65	2594	3073	3492
75	2007	3083	3816
85	1212	4045	4634

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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>
0	1437.346	1437.346	1437.346	1437.346	1437.346
5	1415.398	1413.447	1413.447	1408.570	1406.131
10	1411.009	1411.009	1413.447	1415.398	1415.398
15	1373.941	1375.892	1378.331	1381.745	1384.183
20	1283.223	1288.100	1293.953	1301.757	1304.195
25	1210.551	1214.940	1226.646	1236.888	1241.766
30	1060.817	1028.139	1161.778	1123.247	1117.394
35	978.390	987.657	1009.605	1028.139	1035.455
40	870.602	882.307	906.694	931.080	940.347
45	795.491	805.733	839.387	870.602	882.307
50	691.116	707.211	744.279	776.957	788.175
55	578.450	596.008	633.076	670.144	683.800
60	471.637	490.171	532.116	570.159	584.303
65	374.578	398.965	443.836	488.220	504.315
70	276.056	304.832	357.995	404.818	420.913
75	177.534	213.139	272.642	319.952	337.511
80	97.546	143.881	212.163	258.498	272.642
85	36.092	82.427	120.470	135.589	138.028
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	521.04	N.A.	13.90
0-30	1079.84	N.A.	28.70
0-40	1709.77	N.A.	45.50
0-60	2919.92	N.A.	77.70
0-80	3644.74	N.A.	97.00
0-90	3757.09	N.A.	100.00
10-90	3621.98	N.A.	96.40
20-40	1188.73	N.A.	31.60
20-50	1831.24	N.A.	48.70
40-70	1648.33	N.A.	43.90
60-80	724.82	N.A.	19.30
70-80	286.63	N.A.	7.60
80-90	112.36	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	3757.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	135.11
10-20	385.92
20-30	558.81
30-40	629.93
40-50	642.51
50-60	567.64
60-70	438.19
70-80	286.63
80-90	112.36
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	158	158	158	158	154	154	154	154	147	147	147	141	141	141	135	135	135	133
1	144	137	131	126	140	134	129	124	128	124	120	123	119	116	118	115	113	110
2	131	119	110	102	127	117	108	101	112	105	99	108	102	96	104	99	94	91
3	119	105	94	85	116	103	93	84	99	90	83	95	88	81	92	85	80	77
4	109	93	81	72	106	91	80	72	88	78	71	85	77	70	82	75	69	66
5	100	83	71	63	98	82	71	62	79	69	62	76	68	61	74	66	60	57
6	93	75	63	55	90	74	63	55	72	62	54	69	60	54	67	59	53	50
7	86	68	57	49	84	67	56	48	65	55	48	63	54	48	62	53	47	45
8	80	63	51	43	78	62	51	43	60	50	43	58	49	43	57	49	43	40
9	75	57	47	39	73	57	46	39	55	46	39	54	45	39	52	44	39	36
10	71	53	43	36	69	52	42	36	51	42	35	50	41	35	49	41	35	33

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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	14.4	16.1	14.8	16.4	16.7	15.4	17.1	15.8	17.4	17.7
	3H	16.1	17.6	16.5	17.9	18.3	17.6	19.1	18.0	19.4	19.8
	4H	16.6	18.1	17.0	18.4	18.8	18.6	20.0	19.0	20.4	20.7
	6H	17.0	18.3	17.4	18.7	19.1	19.6	21.0	20.1	21.3	21.7
	8H	17.1	18.4	17.6	18.8	19.2	20.1	21.3	20.5	21.7	22.1
	12H	17.2	18.4	17.6	18.8	19.2	20.4	21.6	20.8	22.0	22.4

UGR Viewed Endwise

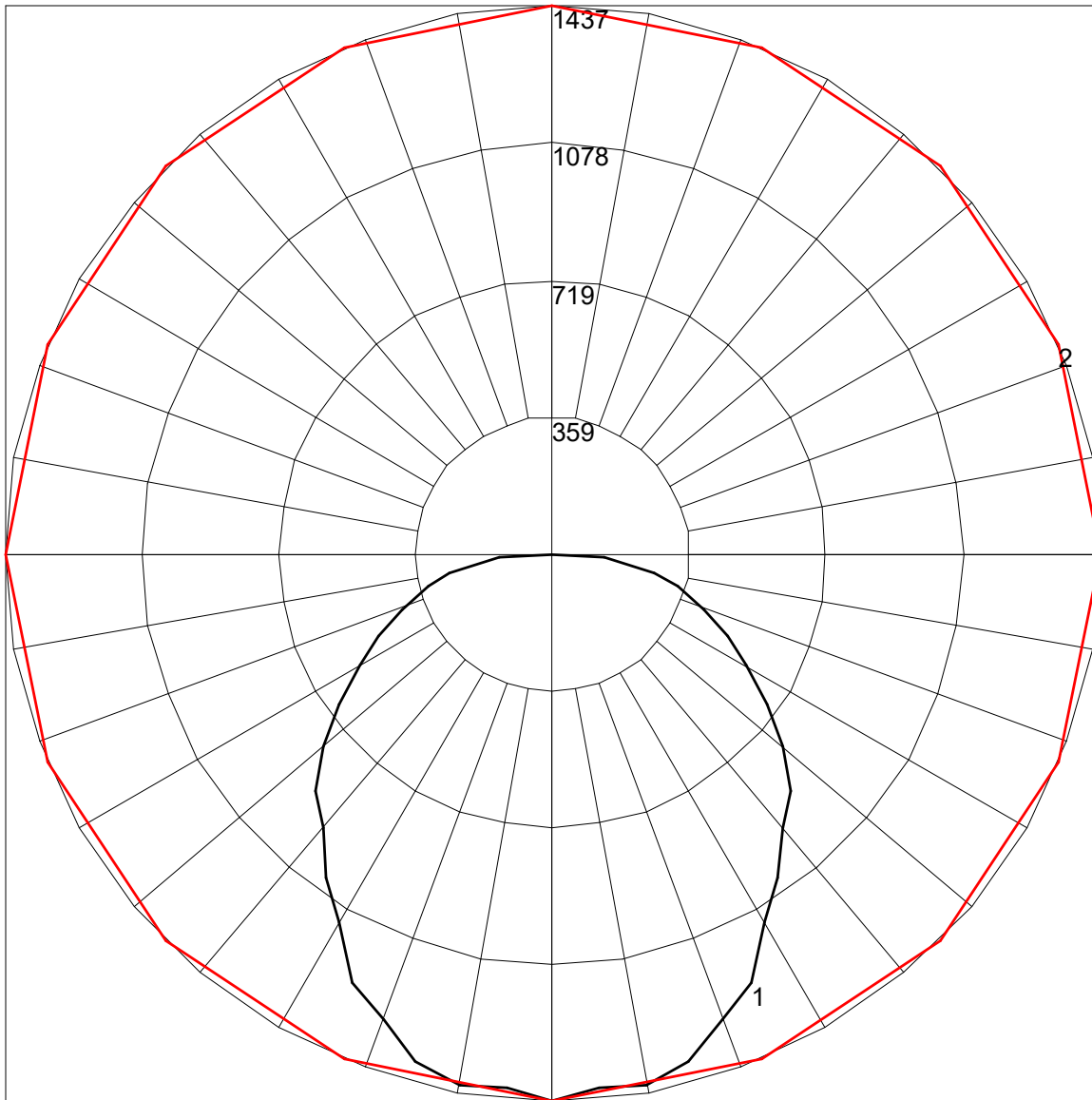
4H	2H	15.2	16.6	15.6	17.0	17.3	16.0	17.4	16.4	17.7	18.1
	3H	17.1	18.3	17.5	18.7	19.1	18.5	19.6	18.9	20.0	20.4
	4H	17.8	18.9	18.3	19.3	19.7	19.6	20.7	20.1	21.1	21.6
	6H	18.4	19.3	18.8	19.7	20.2	20.9	21.8	21.3	22.3	22.7
	8H	18.5	19.4	19.0	19.9	20.3	21.4	22.3	21.8	22.7	23.2
	12H	18.7	19.5	19.1	19.9	20.4	21.8	22.6	22.3	23.1	23.5

8H	4H	18.4	19.3	18.9	19.7	20.2	19.9	20.8	20.4	21.3	21.7
	6H	19.2	19.9	19.7	20.4	20.9	21.4	22.2	21.9	22.6	23.1
	8H	19.5	20.1	20.0	20.6	21.1	22.1	22.7	22.6	23.2	23.7
	12H	19.7	20.3	20.2	20.8	21.3	22.6	23.2	23.1	23.7	24.3

12H	4H	18.6	19.4	19.1	19.8	20.3	20.0	20.8	20.5	21.3	21.7
	6H	19.4	20.1	19.9	20.6	21.1	21.5	22.2	22.0	22.6	23.2
	8H	19.8	20.4	20.3	20.9	21.4	22.2	22.8	22.8	23.3	23.9

Maximum UGR = 24.3

POLAR GRAPH



Maximum Candela = 1437.346 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)