



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTS-22-L25-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
 [ISSUE DATE] 26-APR-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-L25-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	2451
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	18.9
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	2147	2266	2382
55	1925	2107	2275
65	1692	2005	2278
75	1309	2011	2489
85	790	2638	3023

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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	937.508	937.508	937.508	937.508	937.508
5	923.192	921.920	921.920	918.739	917.148
10	920.329	920.329	921.920	923.192	923.192
15	896.152	897.424	899.015	901.242	902.833
20	836.981	840.162	843.980	849.070	850.660
25	789.581	792.444	800.079	806.759	809.941
30	691.917	670.603	757.769	732.637	728.819
35	638.154	644.199	658.514	670.603	675.375
40	567.849	575.484	591.390	607.296	613.341
45	518.858	525.539	547.489	567.849	575.484
50	450.780	461.278	485.455	506.770	514.086
55	377.294	388.746	412.923	437.101	446.008
60	307.625	319.713	347.072	371.886	381.111
65	244.318	260.224	289.492	318.441	328.939
70	180.058	198.827	233.502	264.042	274.540
75	115.797	139.020	177.831	208.689	220.141
80	63.625	93.846	138.383	168.605	177.831
85	23.541	53.763	78.576	88.438	90.029
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	339.84	N.A.	13.90
0-30	704.33	N.A.	28.70
0-40	1115.2	N.A.	45.50
0-60	1904.51	N.A.	77.70
0-80	2377.28	N.A.	97.00
0-90	2450.56	N.A.	100.00
10-90	2362.44	N.A.	96.40
20-40	775.35	N.A.	31.60
20-50	1194.43	N.A.	48.70
40-70	1075.12	N.A.	43.90
60-80	472.76	N.A.	19.30
70-80	186.96	N.A.	7.60
80-90	73.28	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	2450.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	88.13
10-20	251.72
20-30	364.48
30-40	410.87
40-50	419.08
50-60	370.24
60-70	285.81
70-80	186.96
80-90	73.28
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	13.9	15.6	14.3	15.9	16.2	14.9	16.6	15.3	16.9	17.2
	3H	15.6	17.1	16.0	17.4	17.8	17.1	18.6	17.5	18.9	19.3
	4H	16.1	17.6	16.5	17.9	18.3	18.1	19.5	18.5	19.9	20.2
	6H	16.5	17.8	16.9	18.2	18.6	19.1	20.5	19.6	20.8	21.2
	8H	16.6	17.9	17.1	18.3	18.7	19.6	20.8	20.0	21.2	21.6
	12H	16.7	17.9	17.1	18.3	18.7	19.9	21.1	20.3	21.5	21.9

UGR Viewed Endwise

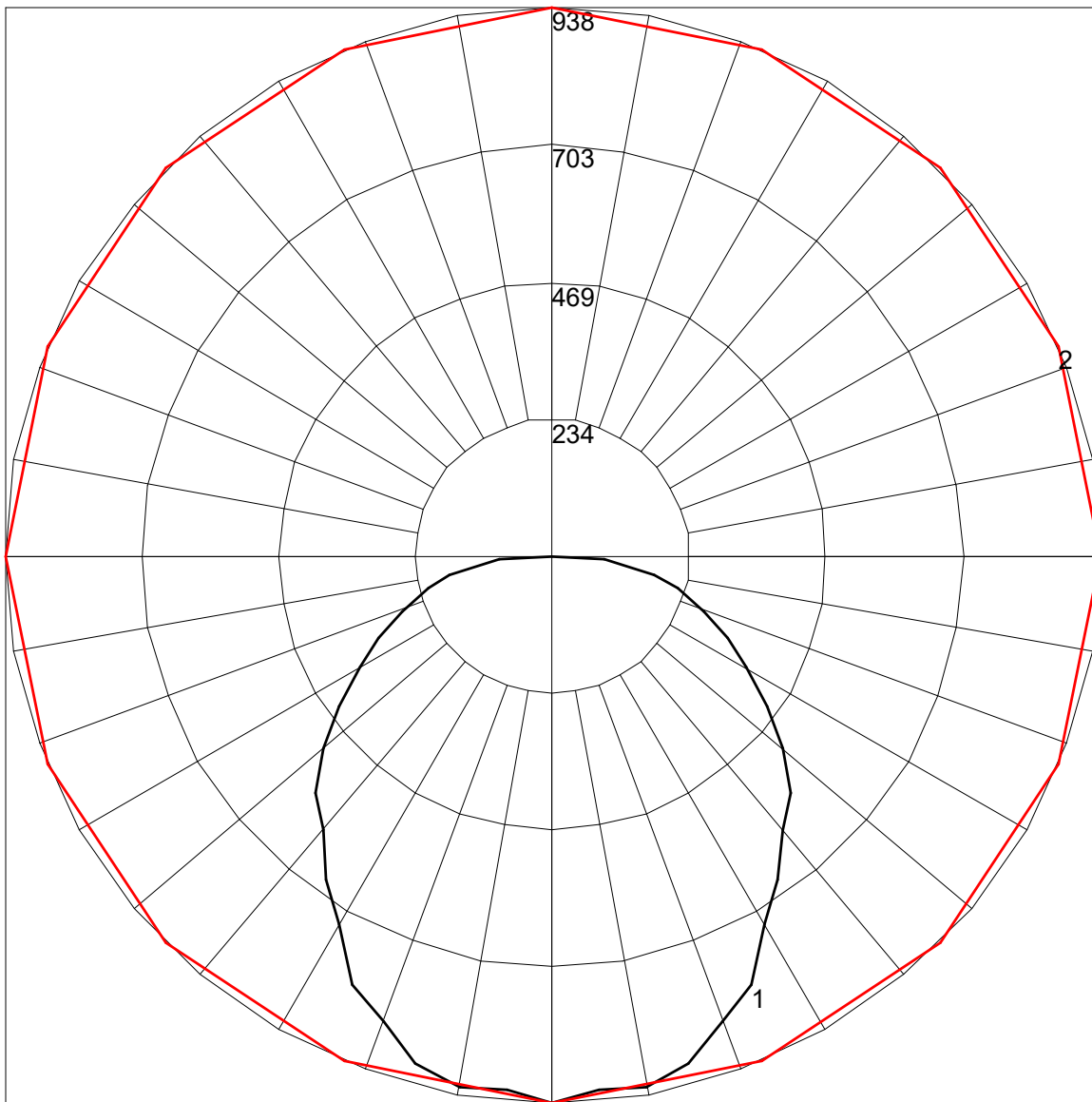
4H	2H	14.7	16.1	15.1	16.5	16.8	15.5	16.9	15.9	17.2	17.6
	3H	16.6	17.8	17.0	18.2	18.6	17.9	19.1	18.4	19.5	19.9
	4H	17.3	18.4	17.8	18.8	19.2	19.1	20.2	19.6	20.6	21.0
	6H	17.9	18.8	18.3	19.2	19.7	20.4	21.3	20.8	21.8	22.2
	8H	18.0	18.9	18.5	19.4	19.8	20.9	21.8	21.3	22.2	22.7
	12H	18.2	19.0	18.6	19.4	19.9	21.3	22.1	21.8	22.6	23.0

8H	4H	17.9	18.8	18.4	19.2	19.7	19.4	20.3	19.9	20.8	21.2
	6H	18.7	19.4	19.2	19.9	20.4	20.9	21.7	21.4	22.1	22.6
	8H	19.0	19.6	19.5	20.1	20.6	21.6	22.2	22.1	22.7	23.2
	12H	19.2	19.8	19.7	20.3	20.8	22.1	22.7	22.6	23.2	23.8

12H	4H	18.1	18.9	18.6	19.3	19.8	19.5	20.3	20.0	20.8	21.2
	6H	18.9	19.6	19.4	20.1	20.6	21.0	21.7	21.5	22.1	22.7
	8H	19.3	19.9	19.8	20.4	20.9	21.7	22.3	22.3	22.8	23.4

Maximum UGR = 23.8

POLAR GRAPH



Maximum Candela = 937.508 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.)