

IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTDC-22-L26-830-RA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] BALLABS TEST NO. 19562.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUE DATE] 2022-05-03
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 1-72 LED 22"ARRAY 2x2'RECESSED LUMINAIRE
[MORE] WHITE REFLECTOR w/CENTER FROSTED RIBBED ACRYLIC LENS
[MORE] ELECTRONIC 0-10V LED DRIVER
[LUMCAT] PTDC-22-L26-830-RA-DIM-UNV
[LAMPCAT] HLM 80 CRI 3000K CCT
[SEARCH_SOURCE TYPE] LED
[SEARCH_APPLICATION] INDOOR
[SEARCH_MOUNTING] RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2607
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	21.3
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	2449	2540	2623
55	2071	2281	2434
65	1583	1980	2201
75	1100	1756	2170
85	627	1432	1790

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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	996.175	996.175	996.175	996.175	996.175
5	999.525	993.496	992.156	988.806	988.806
10	986.126	980.097	979.427	976.078	975.408
15	962.679	955.980	955.310	953.970	953.300
20	929.183	923.154	922.484	923.154	923.154
25	882.288	876.259	880.279	882.958	880.279
30	824.675	821.995	826.015	830.704	827.355
35	758.353	757.683	766.392	769.741	773.091
40	681.982	681.982	696.720	702.749	708.108
45	594.892	594.892	616.999	631.067	637.097
50	503.112	503.782	533.259	552.016	560.725
55	407.983	415.352	449.518	469.616	479.665
60	314.864	329.602	363.768	385.876	396.594
65	229.784	249.211	287.397	311.514	319.553
70	154.752	178.869	217.055	241.842	251.221
75	97.809	121.256	156.092	180.879	192.938
80	52.924	73.022	103.838	121.256	133.315
85	18.758	32.826	42.875	42.875	53.594
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	363.97	N.A.	14.00
0-30	769.11	N.A.	29.50
0-40	1246.83	N.A.	47.80
0-60	2118.18	N.A.	81.30
0-80	2558.86	N.A.	98.20
0-90	2606.54	N.A.	100.00
10-90	2512.25	N.A.	96.40
20-40	882.86	N.A.	33.90
20-50	1356.57	N.A.	52.00
40-70	1151.1	N.A.	44.20
60-80	440.68	N.A.	16.90
70-80	160.93	N.A.	6.20
80-90	47.68	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	2606.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	94.29
10-20	269.68
20-30	405.14
30-40	477.72
40-50	473.71
50-60	397.64
60-70	279.74
70-80	160.93
80-90	47.68
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	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	81	73	66	88	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	14.1	15.7	14.4	16.0	16.3	15.1	16.7	15.5	17.0	17.3
	3H	15.4	16.8	15.7	17.1	17.5	16.9	18.4	17.3	18.7	19.1
	4H	15.8	17.1	16.2	17.5	17.9	17.7	19.1	18.1	19.4	19.8
	6H	16.0	17.3	16.5	17.7	18.1	18.4	19.7	18.8	20.0	20.4
	8H	16.1	17.3	16.5	17.7	18.1	18.6	19.8	19.1	20.2	20.6
	12H	16.1	17.3	16.6	17.7	18.1	18.8	19.9	19.2	20.3	20.8

UGR Viewed Endwise

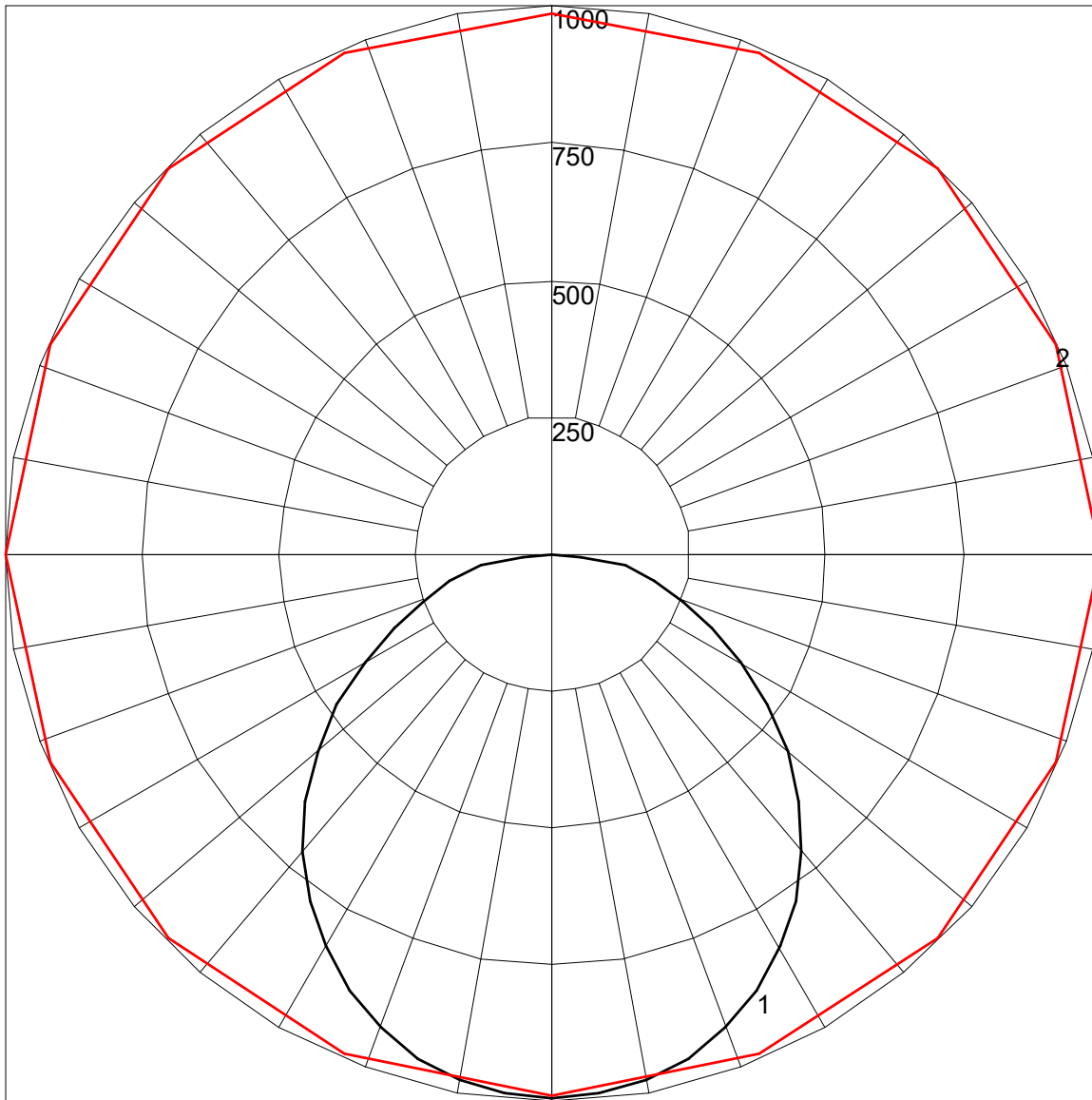
4H	2H	14.8	16.1	15.2	16.5	16.9	15.6	17.0	16.0	17.3	17.7
	3H	16.3	17.4	16.7	17.8	18.2	17.7	18.8	18.1	19.2	19.6
	4H	16.9	17.9	17.3	18.3	18.7	18.6	19.6	19.0	20.0	20.5
	6H	17.2	18.1	17.7	18.6	19.0	19.5	20.4	19.9	20.8	21.3
	8H	17.3	18.2	17.8	18.6	19.1	19.8	20.6	20.2	21.0	21.5
	12H	17.4	18.2	17.9	18.6	19.1	20.0	20.7	20.5	21.2	21.7

8H	4H	17.3	18.1	17.8	18.6	19.1	18.9	19.7	19.3	20.1	20.6
	6H	17.8	18.5	18.3	19.0	19.5	19.8	20.5	20.3	21.0	21.5
	8H	18.0	18.6	18.5	19.2	19.6	20.2	20.9	20.8	21.4	21.9
	12H	18.1	18.7	18.6	19.2	19.7	20.5	21.1	21.0	21.5	22.1

12H	4H	17.4	18.1	17.9	18.6	19.1	18.9	19.6	19.3	20.1	20.6
	6H	18.0	18.6	18.5	19.1	19.6	19.9	20.5	20.4	21.0	21.5
	8H	18.2	18.8	18.7	19.3	19.8	20.3	20.9	20.8	21.4	21.9

Maximum UGR = 22.1

POLAR GRAPH



Maximum Candela = 999.525 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)