

IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTDC-22-L26-835-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-L26-835-RA-DIM-UNV
[LAMPCAT] HLM 80 CRI 3500K CCT
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] INDOOR
[SEARCH_MOUNTING] RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2633
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
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	2474	2566	2649
55	2092	2305	2459
65	1599	2000	2223
75	1111	1773	2192
85	633	1447	1808

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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	1006.238	1006.238	1006.238	1006.238	1006.238
5	1009.621	1003.531	1002.178	998.794	998.794
10	996.087	989.997	989.320	985.937	985.260
15	972.403	965.636	964.960	963.606	962.930
20	938.569	932.479	931.802	932.479	932.479
25	891.200	885.110	889.170	891.877	889.170
30	833.005	830.298	834.359	839.095	835.712
35	766.013	765.336	774.133	777.517	780.900
40	688.870	688.870	703.757	709.848	715.261
45	600.901	600.901	623.231	637.442	643.532
50	508.194	508.871	538.645	557.592	566.389
55	412.104	419.548	454.059	474.360	484.510
60	318.044	332.931	367.443	389.773	400.600
65	232.105	251.729	290.300	314.661	322.781
70	156.315	180.676	219.247	244.285	253.759
75	98.797	122.481	157.669	182.706	194.887
80	53.458	73.759	104.887	122.481	134.661
85	18.947	33.158	43.308	43.308	54.135
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	367.64	N.A.	14.00
0-30	776.88	N.A.	29.50
0-40	1259.42	N.A.	47.80
0-60	2139.58	N.A.	81.30
0-80	2584.7	N.A.	98.20
0-90	2632.87	N.A.	100.00
10-90	2537.63	N.A.	96.40
20-40	891.78	N.A.	33.90
20-50	1370.27	N.A.	52.00
40-70	1162.72	N.A.	44.20
60-80	445.13	N.A.	16.90
70-80	162.56	N.A.	6.20
80-90	48.16	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	2632.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	95.24
10-20	272.40
20-30	409.24
30-40	482.55
40-50	478.49
50-60	401.66
60-70	282.57
70-80	162.56
80-90	48.16
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

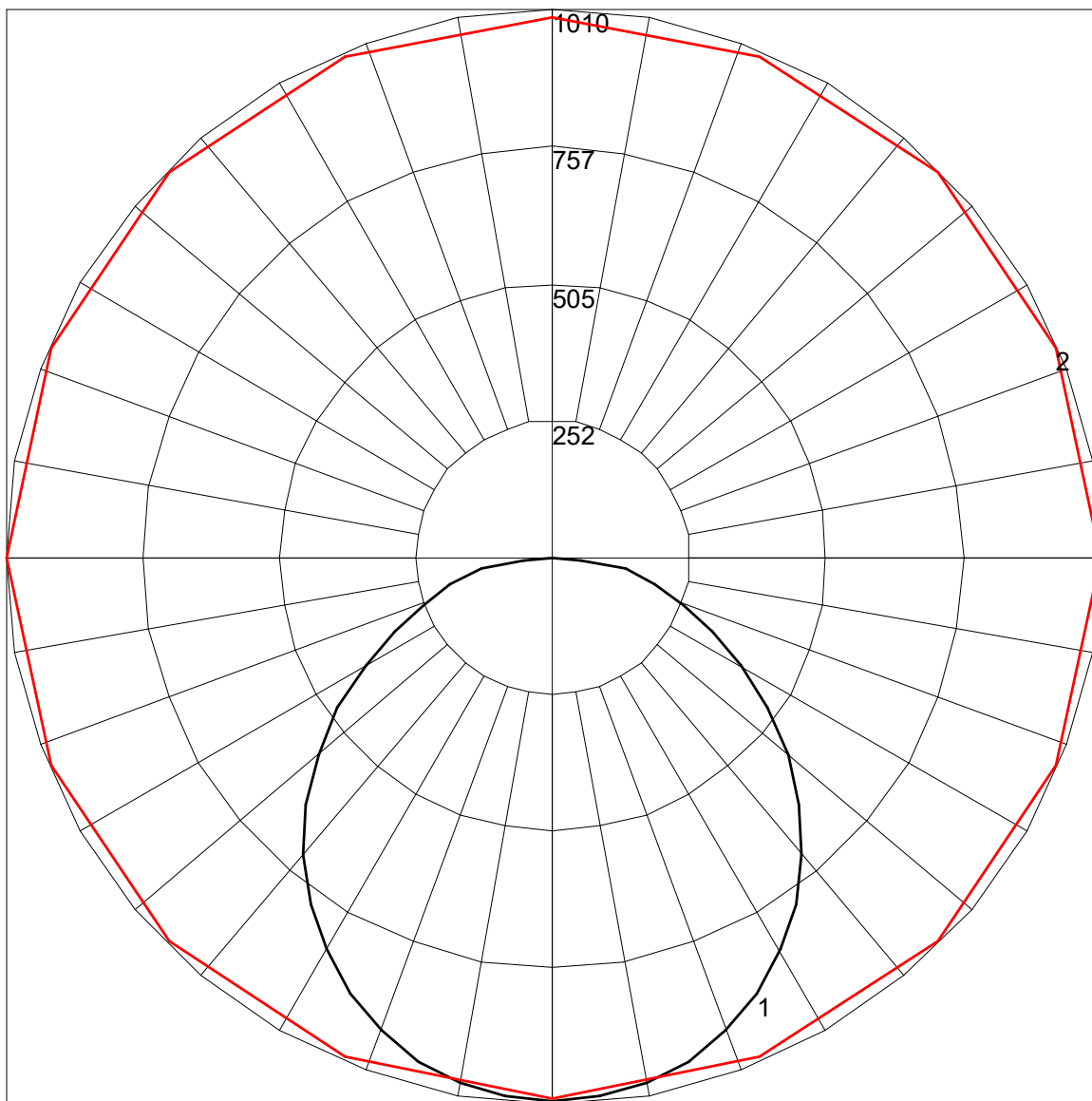
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	14.2	15.8	14.5	16.1	16.4	15.2	16.8	15.6	17.1	17.4
	3H	15.5	16.9	15.8	17.2	17.6	17.0	18.5	17.4	18.8	19.2
	4H	15.9	17.2	16.3	17.6	18.0	17.8	19.2	18.2	19.5	19.9
	6H	16.1	17.4	16.6	17.8	18.2	18.5	19.8	18.9	20.1	20.5
	8H	16.2	17.4	16.6	17.8	18.2	18.7	19.9	19.2	20.3	20.7
	12H	16.2	17.4	16.7	17.8	18.2	18.9	20.0	19.3	20.4	20.9
4H	2H	14.9	16.2	15.3	16.6	17.0	15.7	17.1	16.1	17.4	17.8
	3H	16.4	17.5	16.8	17.9	18.3	17.8	18.9	18.2	19.3	19.7
	4H	17.0	18.0	17.4	18.4	18.8	18.7	19.7	19.1	20.1	20.6
	6H	17.3	18.2	17.8	18.7	19.1	19.6	20.5	20.0	20.9	21.4
	8H	17.4	18.3	17.9	18.7	19.2	19.9	20.7	20.3	21.1	21.6
	12H	17.5	18.3	18.0	18.7	19.2	20.1	20.8	20.6	21.3	21.8
8H	4H	17.4	18.2	17.9	18.7	19.2	19.0	19.8	19.4	20.2	20.7
	6H	17.9	18.6	18.4	19.1	19.6	19.9	20.6	20.4	21.1	21.6
	8H	18.1	18.7	18.6	19.3	19.7	20.3	21.0	20.9	21.5	22.0
	12H	18.2	18.8	18.7	19.3	19.8	20.6	21.2	21.1	21.6	22.2
12H	4H	17.5	18.2	18.0	18.7	19.2	19.0	19.7	19.4	20.2	20.7
	6H	18.1	18.7	18.6	19.2	19.7	20.0	20.6	20.5	21.1	21.6
	8H	18.3	18.9	18.8	19.4	19.9	20.4	21.0	20.9	21.5	22.0

Maximum UGR = 22.2

POLAR GRAPH



Maximum Candela = 1009.621 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.)