

IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTDC-22-L26-850-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-L26-850-RA-DIM-UNV
[LAMPCAT] HLM 80 CRI 5000K 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	2791
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
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	2622	2720	2808
55	2217	2443	2607
65	1695	2120	2357
75	1178	1880	2324
85	671	1533	1917

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PTDC-22-L26-850-RA-DIM-UNV_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1066.612	1066.612	1066.612	1066.612	1066.612
5	1070.198	1063.743	1062.308	1058.722	1058.722
10	1055.853	1049.397	1048.680	1045.093	1044.376
15	1030.747	1023.575	1022.857	1021.423	1020.705
20	994.883	988.427	987.710	988.427	988.427
25	944.672	938.217	942.521	945.390	942.521
30	882.985	880.116	884.420	889.441	885.855
35	811.974	811.256	820.581	824.168	827.754
40	730.202	730.202	745.983	752.438	758.177
45	636.955	636.955	660.625	675.688	682.144
50	538.686	539.403	570.964	591.048	600.373
55	436.830	444.721	481.302	502.821	513.580
60	337.127	352.907	389.489	413.160	424.636
65	246.031	266.832	307.718	333.540	342.148
70	165.694	191.517	232.402	258.942	268.984
75	104.725	129.830	167.129	193.669	206.580
80	56.666	78.185	111.180	129.830	142.741
85	20.084	35.147	45.907	45.907	57.383
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PTDC-22-L26-850-RA-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	389.70	N.A.	14.00
0-30	823.49	N.A.	29.50
0-40	1334.99	N.A.	47.80
0-60	2267.95	N.A.	81.30
0-80	2739.78	N.A.	98.20
0-90	2790.84	N.A.	100.00
10-90	2689.88	N.A.	96.40
20-40	945.29	N.A.	33.90
20-50	1452.49	N.A.	52.00
40-70	1232.49	N.A.	44.20
60-80	471.83	N.A.	16.90
70-80	172.31	N.A.	6.20
80-90	51.05	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	2790.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	100.95
10-20	288.75
20-30	433.79
30-40	511.50
40-50	507.20
50-60	425.76
60-70	299.52
70-80	172.31
80-90	51.05
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PTDC-22-L26-850-RA-DIM-UNV_.IES

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PTDC-22-L26-850-RA-DIM-UNV_.IES

UGR TABLE - CORRECTED

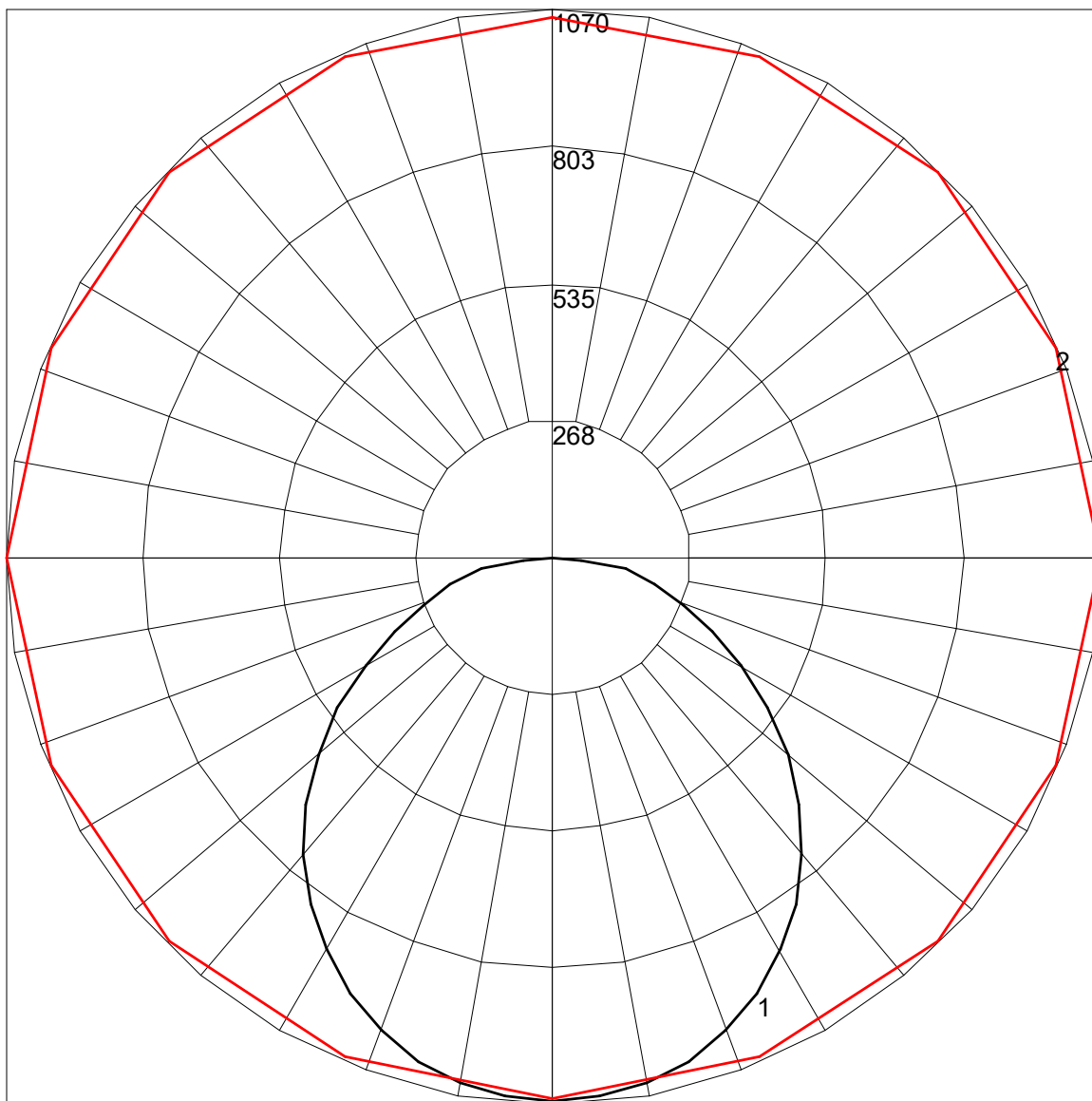
Reflectances

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	14.4	16.0	14.7	16.3	16.6	15.4	17.0	15.8	17.3	17.6
	3H	15.7	17.1	16.0	17.4	17.8	17.2	18.7	17.6	19.0	19.4
	4H	16.1	17.4	16.5	17.8	18.2	18.0	19.4	18.4	19.7	20.1
	6H	16.3	17.6	16.8	18.0	18.4	18.7	20.0	19.1	20.3	20.7
	8H	16.4	17.6	16.8	18.0	18.4	18.9	20.1	19.4	20.5	20.9
	12H	16.4	17.6	16.9	18.0	18.4	19.1	20.2	19.5	20.6	21.1
4H	2H	15.1	16.4	15.5	16.8	17.2	15.9	17.3	16.3	17.6	18.0
	3H	16.6	17.7	17.0	18.1	18.5	18.0	19.1	18.4	19.5	19.9
	4H	17.2	18.2	17.6	18.6	19.0	18.9	19.9	19.3	20.3	20.8
	6H	17.5	18.4	18.0	18.9	19.3	19.8	20.7	20.2	21.1	21.6
	8H	17.6	18.5	18.1	18.9	19.4	20.1	20.9	20.5	21.3	21.8
	12H	17.7	18.5	18.2	18.9	19.4	20.3	21.0	20.8	21.5	22.0
8H	4H	17.6	18.4	18.1	18.9	19.4	19.2	20.0	19.6	20.4	20.9
	6H	18.1	18.8	18.6	19.3	19.8	20.1	20.8	20.6	21.3	21.8
	8H	18.3	18.9	18.8	19.5	19.9	20.5	21.2	21.1	21.7	22.2
	12H	18.4	19.0	18.9	19.5	20.0	20.8	21.4	21.3	21.8	22.4
12H	4H	17.7	18.4	18.2	18.9	19.4	19.2	19.9	19.6	20.4	20.9
	6H	18.3	18.9	18.8	19.4	19.9	20.2	20.8	20.7	21.3	21.8
	8H	18.5	19.1	19.0	19.6	20.1	20.6	21.2	21.1	21.7	22.2

Maximum UGR = 22.4

POLAR GRAPH



Maximum Candela = 1070.198 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.)