

IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTDC-22-L26-827-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-L26-827-RA-DIM-UNV
[LAMPCAT] HLM 80 CRI 2700K 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	2554
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
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	2400	2489	2570
55	2029	2235	2385
65	1551	1940	2157
75	1078	1720	2126
85	614	1403	1754

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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	976.051	976.051	976.051	976.051	976.051
5	979.333	973.425	972.112	968.830	968.830
10	966.205	960.297	959.641	956.359	955.703
15	943.231	936.667	936.011	934.698	934.042
20	910.412	904.504	903.848	904.504	904.504
25	864.464	858.557	862.495	865.121	862.495
30	808.015	805.389	809.328	813.923	810.641
35	743.032	742.376	750.909	754.191	757.473
40	668.204	668.204	682.645	688.552	693.803
45	582.874	582.874	604.534	618.319	624.226
50	492.948	493.605	522.486	540.865	549.398
55	399.741	406.961	440.437	460.129	469.975
60	308.503	322.943	356.419	378.080	388.582
65	225.141	244.177	281.591	305.221	313.098
70	151.626	175.256	212.670	236.956	246.146
75	95.833	118.806	152.939	177.225	189.040
80	51.855	71.546	101.740	118.806	130.621
85	18.379	32.163	42.009	42.009	52.511
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	356.61	N.A.	14.00
0-30	753.57	N.A.	29.50
0-40	1221.64	N.A.	47.80
0-60	2075.39	N.A.	81.30
0-80	2507.16	N.A.	98.20
0-90	2553.88	N.A.	100.00
10-90	2461.5	N.A.	96.40
20-40	865.03	N.A.	33.90
20-50	1329.16	N.A.	52.00
40-70	1127.84	N.A.	44.20
60-80	431.77	N.A.	16.90
70-80	157.68	N.A.	6.20
80-90	46.72	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	2553.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	92.38
10-20	264.23
20-30	396.96
30-40	468.07
40-50	464.14
50-60	389.61
60-70	274.09
70-80	157.68
80-90	46.72
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

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

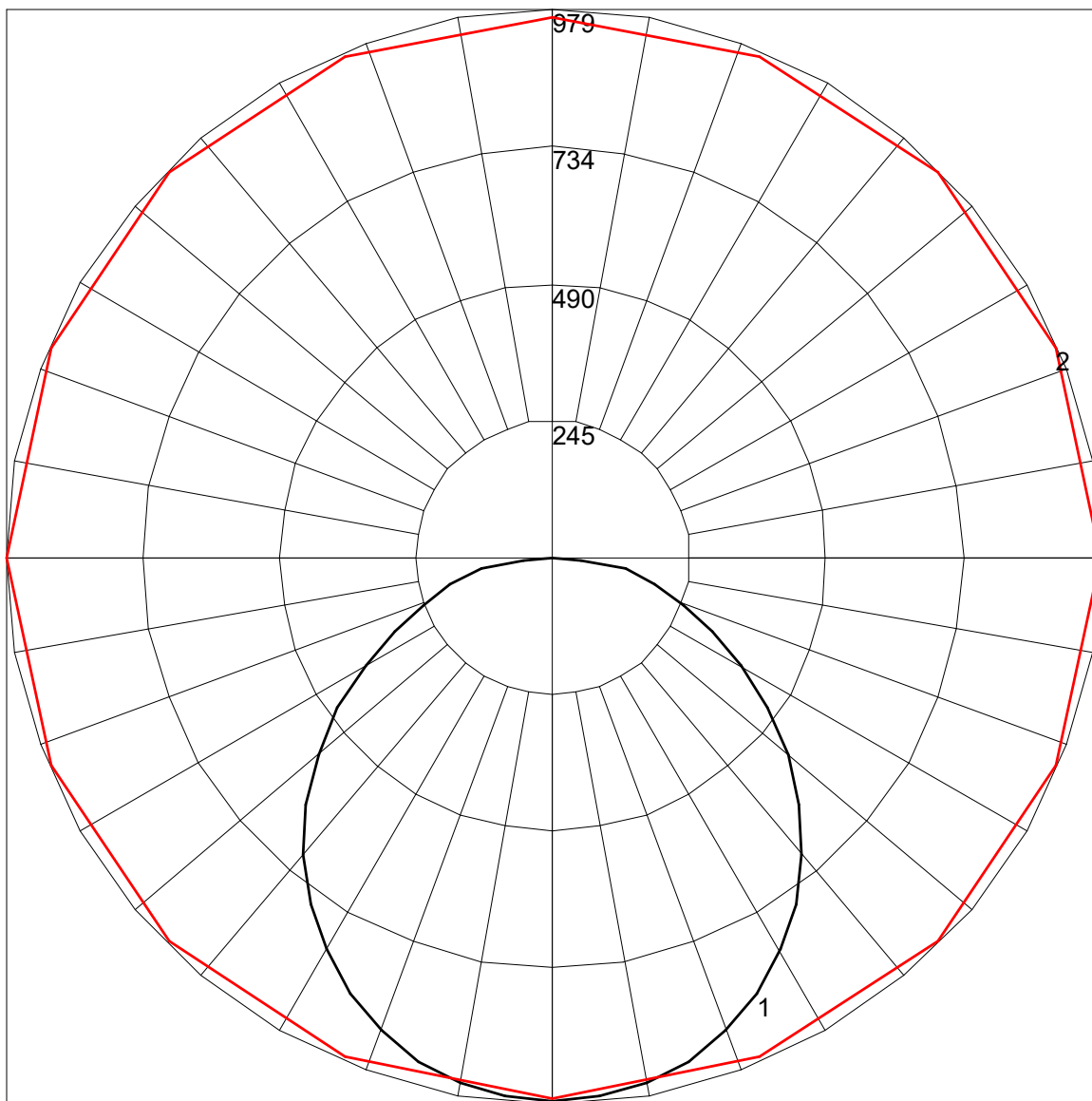
4H	2H	14.8	16.1	15.2	16.5	16.9	15.6	17.0	16.0	17.3	17.7
	3H	16.3	17.4	16.7	17.8	18.2	17.7	18.8	18.1	19.2	19.6
	4H	16.9	17.9	17.3	18.3	18.7	18.6	19.6	19.0	20.0	20.5
	6H	17.2	18.1	17.7	18.6	19.0	19.5	20.4	19.9	20.8	21.3
	8H	17.3	18.2	17.8	18.6	19.1	19.8	20.6	20.2	21.0	21.5
	12H	17.4	18.2	17.9	18.6	19.1	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 = 979.333 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.)