



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTR-24-L61-840-RA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]GEN FROM BALLABS TEST NO. 19272.2
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUE DATE] 10-05-2021
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 2-72LED 22"ARRAYS 2x4'RECESSED LUMINAIRE
[MORE] WHITE REFLECTOR w/WHITE ACRYLIC RIBBED CENTER DIFFUSER
[LUMCAT] PTR-24-L61-840-RA-DIM-UNV
[LAMPCAT] M700C835D72N2A
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor, Classroom, Commercial, Industrial, Office, Retrofit
[SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6241
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	48.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 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	2729	2886	3048
55	2414	2640	2865
65	2173	2564	2938
75	1663	2572	3239
85	1075	2829	2886

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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	2322.748	2322.748	2322.748	2322.748	2322.748
5	2310.695	2308.973	2310.695	2310.695	2311.556
10	2266.788	2268.510	2271.093	2274.536	2276.258
15	2166.061	2168.644	2174.670	2185.001	2189.306
20	2106.658	2112.684	2126.459	2141.955	2148.843
25	1943.945	1951.693	1980.964	1991.295	1999.905
30	1781.232	1834.609	1891.429	1981.825	1889.708
35	1603.023	1617.659	1653.817	1689.975	1705.472
40	1455.807	1473.025	1516.932	1561.699	1583.222
45	1347.331	1367.993	1424.814	1479.912	1504.879
50	1157.930	1182.036	1243.161	1302.564	1327.530
55	966.807	992.635	1057.203	1121.772	1147.599
60	785.154	816.147	885.020	949.589	977.999
65	641.381	678.401	756.744	832.504	866.941
70	470.059	517.410	609.528	694.758	728.334
75	300.459	359.001	464.894	550.985	585.422
80	168.739	246.222	356.419	417.544	433.901
85	65.430	134.303	172.183	173.905	175.627
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	837.83	N.A.	13.40
0-30	1756.43	N.A.	28.10
0-40	2806.86	N.A.	45.00
0-60	4839.21	N.A.	77.50
0-80	6069.05	N.A.	97.20
0-90	6240.78	N.A.	100.00
10-90	6021.49	N.A.	96.50
20-40	1969.03	N.A.	31.60
20-50	3052.83	N.A.	48.90
40-70	2775.21	N.A.	44.50
60-80	1229.84	N.A.	19.70
70-80	486.98	N.A.	7.80
80-90	171.73	N.A.	2.80
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	6240.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	219.29
10-20	618.53
20-30	918.60
30-40	1050.43
40-50	1083.8
50-60	948.55
60-70	742.86
70-80	486.98
80-90	171.73
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	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

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UGR TABLE - CORRECTED

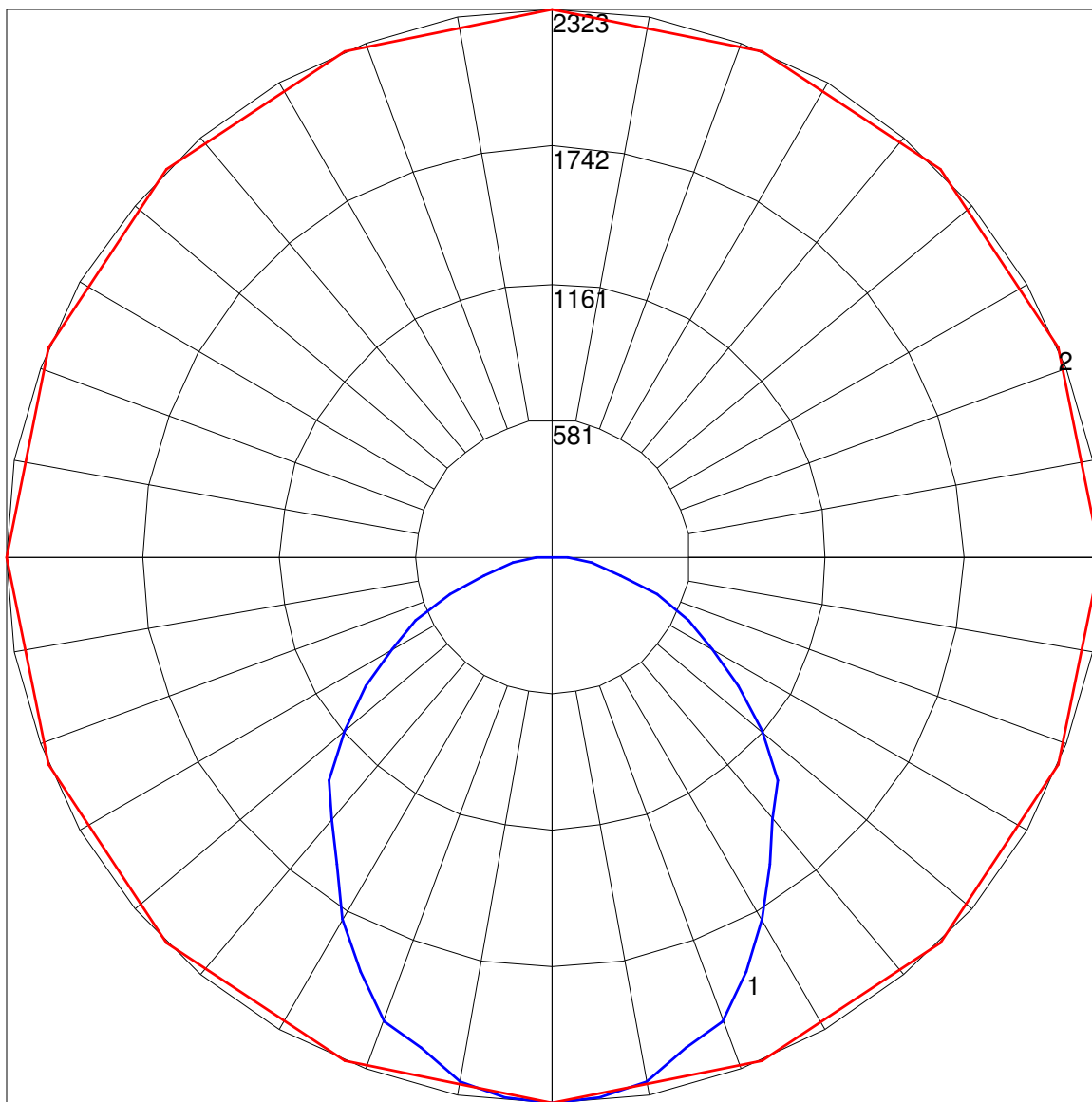
Reflectances

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	14.7	16.4	15.1	16.7	17.0	15.8	17.4	16.1	17.7	18.1
	3H	16.5	18.0	16.9	18.3	18.7	18.1	19.6	18.5	19.9	20.3
	4H	17.1	18.5	17.4	18.8	19.2	19.1	20.5	19.5	20.9	21.2
	6H	17.4	18.8	17.9	19.1	19.5	20.1	21.4	20.5	21.7	22.1
	8H	17.6	18.8	18.0	19.2	19.6	20.4	21.7	20.9	22.1	22.5
	12H	17.7	18.8	18.1	19.2	19.7	20.6	21.8	21.1	22.2	22.6
4H	2H	15.6	17.0	16.0	17.3	17.7	16.4	17.8	16.8	18.1	18.5
	3H	17.5	18.7	18.0	19.1	19.5	18.9	20.1	19.3	20.5	20.9
	4H	18.3	19.3	18.7	19.7	20.2	20.1	21.2	20.6	21.6	22.1
	6H	18.8	19.7	19.2	20.2	20.6	21.3	22.2	21.7	22.7	23.1
	8H	19.0	19.9	19.4	20.3	20.8	21.7	22.6	22.2	23.0	23.5
	12H	19.1	19.9	19.6	20.4	20.8	22.0	22.8	22.5	23.3	23.7
8H	4H	18.8	19.7	19.3	20.2	20.6	20.4	21.3	20.9	21.8	22.2
	6H	19.6	20.4	20.1	20.8	21.3	21.8	22.6	22.3	23.0	23.5
	8H	19.9	20.6	20.4	21.1	21.6	22.4	23.0	22.9	23.5	24.0
	12H	20.1	20.7	20.6	21.2	21.8	22.7	23.3	23.3	23.8	24.4
12H	4H	19.0	19.8	19.5	20.3	20.7	20.5	21.3	21.0	21.8	22.2
	6H	19.9	20.5	20.4	21.0	21.5	21.9	22.6	22.4	23.0	23.6
	8H	20.2	20.8	20.7	21.3	21.9	22.5	23.1	23.0	23.6	24.1

Maximum UGR = 24.4

POLAR GRAPH



Maximum Candela = 2322.748 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)