



IES INDOOR REPORT
PHOTOMETRIC FILENAME : PTDC-24-L61-827-RA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 19235.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 2022-05-06
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2x4' RECESSED LED LUMINAIRE
 [MORE] w/RIBBED FROSTED ACRYLIC CENTER DIFFUSER
 [LUMCAT] PTDC-24-L61-827-RA-DIM-UNV
 [LAMPCAT] HLM 80 CRI 2700K CCT
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Architectural, Office, Direct
 [_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5877
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	48.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.28
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	2520	2659	2795
55	2259	2473	2671
65	1986	2353	2673
75	1537	2360	2922
85	928	3097	3548

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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	2248.500	2248.500	2248.500	2248.500	2248.500
5	2214.166	2211.114	2211.114	2203.484	2199.670
10	2207.299	2207.299	2211.114	2214.166	2214.166
15	2149.313	2152.365	2156.180	2161.521	2165.336
20	2007.399	2015.029	2024.184	2036.392	2040.207
25	1893.715	1900.582	1918.893	1934.916	1942.546
30	1659.480	1608.361	1817.417	1757.142	1747.986
35	1530.537	1545.033	1579.367	1608.361	1619.805
40	1361.918	1380.230	1418.379	1456.528	1471.024
45	1244.419	1260.442	1313.088	1361.918	1380.230
50	1081.142	1106.320	1164.307	1215.426	1232.975
55	904.894	932.361	990.347	1048.334	1069.697
60	737.801	766.794	832.411	891.923	914.049
65	585.968	624.117	694.311	763.742	788.921
70	431.846	476.862	560.027	633.273	658.451
75	277.724	333.422	426.505	500.514	527.982
80	152.596	225.079	331.896	404.379	426.505
85	56.460	128.944	188.456	212.108	215.923
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	815.08	N.A.	13.90
0-30	1689.24	N.A.	28.70
0-40	2674.67	N.A.	45.50
0-60	4567.75	N.A.	77.70
0-80	5701.61	N.A.	97.00
0-90	5877.38	N.A.	100.00
10-90	5666.02	N.A.	96.40
20-40	1859.59	N.A.	31.60
20-50	2864.69	N.A.	48.70
40-70	2578.56	N.A.	43.90
60-80	1133.86	N.A.	19.30
70-80	448.39	N.A.	7.60
80-90	175.77	N.A.	3.00
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	5877.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	211.36
10-20	603.72
20-30	874.17
30-40	985.42
40-50	1005.1
50-60	887.98
60-70	685.47
70-80	448.39
80-90	175.77
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	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	33	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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UGR TABLE - CORRECTED

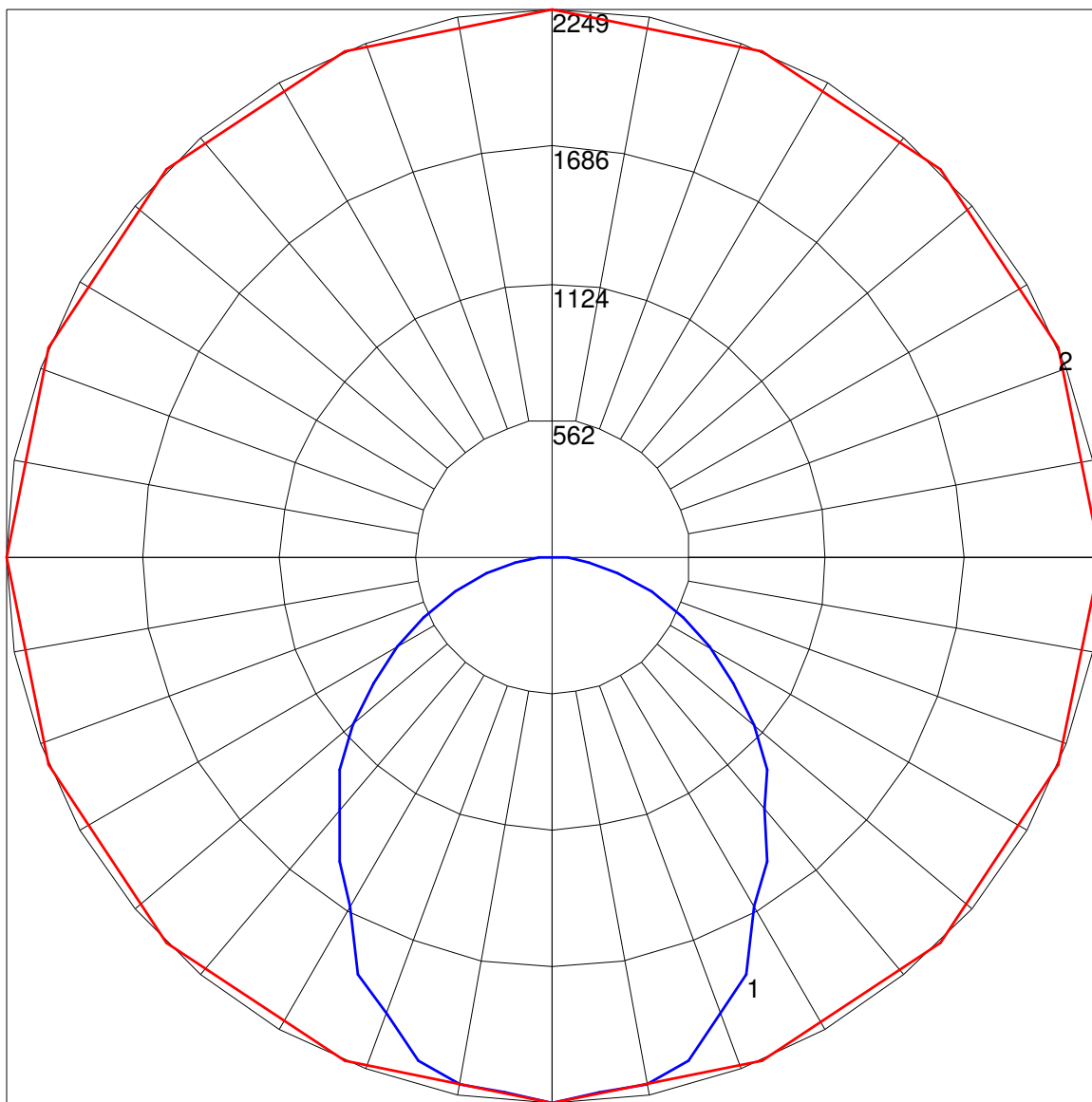
Reflectances

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	14.5	16.2	14.9	16.5	16.8	15.6	17.2	15.9	17.5	17.8
	3H	16.2	17.7	16.6	18.0	18.4	17.7	19.2	18.1	19.6	19.9
	4H	16.8	18.2	17.2	18.5	18.9	18.7	20.1	19.1	20.5	20.9
	6H	17.1	18.5	17.6	18.8	19.2	19.8	21.1	20.2	21.4	21.8
	8H	17.3	18.5	17.7	18.9	19.3	20.2	21.4	20.6	21.8	22.2
	12H	17.3	18.5	17.8	18.9	19.3	20.5	21.7	21.0	22.1	22.5
4H	2H	15.3	16.7	15.7	17.1	17.5	16.1	17.5	16.5	17.9	18.2
	3H	17.2	18.4	17.7	18.8	19.2	18.6	19.8	19.0	20.2	20.6
	4H	17.9	19.0	18.4	19.4	19.9	19.7	20.8	20.2	21.2	21.7
	6H	18.5	19.4	18.9	19.9	20.3	21.0	21.9	21.4	22.4	22.8
	8H	18.6	19.5	19.1	20.0	20.4	21.5	22.4	22.0	22.8	23.3
	12H	18.8	19.6	19.3	20.0	20.5	21.9	22.7	22.4	23.2	23.7
8H	4H	18.5	19.4	19.0	19.9	20.3	20.1	21.0	20.5	21.4	21.9
	6H	19.3	20.0	19.8	20.5	21.0	21.5	22.3	22.0	22.8	23.2
	8H	19.6	20.2	20.1	20.7	21.2	22.2	22.9	22.7	23.4	23.8
	12H	19.8	20.4	20.3	20.9	21.4	22.8	23.3	23.3	23.8	24.4
12H	4H	18.7	19.5	19.2	20.0	20.4	20.1	20.9	20.6	21.4	21.9
	6H	19.5	20.2	20.1	20.7	21.2	21.6	22.3	22.2	22.8	23.3
	8H	19.9	20.5	20.4	21.0	21.6	22.4	22.9	22.9	23.4	24.0

Maximum UGR = 24.4

POLAR GRAPH



Maximum Candela = 2248.5 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.)