



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTS-22-L26-840-RA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN from BALLABS TEST NO. 19562.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 12-14-2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 1-22" LED ARRAY 2x2'RECESSED LUMINAIRE
 [MORE] WHITE REFLECTOR w/CENTER FROSTED RIBBED ACRYLIC LENS
 [MORE] EVERLINE #D10CC55UNVTZ-C @ 76 SETPOINT
 [LUMCAT] PTS-22-L26-840-RA-DIM-UNV
 [LAMPCAT] M700C840D72N2A
 [_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	2712
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
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	2548	2643	2729
55	2154	2374	2533
65	1647	2060	2290
75	1145	1827	2258
85	652	1490	1862

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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	1036.429	1036.429	1036.429	1036.429	1036.429
5	1039.914	1033.641	1032.247	1028.762	1028.762
10	1025.974	1019.701	1019.004	1015.519	1014.822
15	1001.579	994.609	993.912	992.518	991.821
20	966.729	960.457	959.760	960.457	960.457
25	917.940	911.667	915.849	918.637	915.849
30	857.999	855.211	859.393	864.271	860.786
35	788.996	788.299	797.360	800.845	804.330
40	709.539	709.539	724.873	731.146	736.722
45	618.930	618.930	641.931	656.568	662.840
50	523.442	524.139	554.807	574.322	583.383
55	424.469	432.136	467.682	488.592	499.047
60	327.587	342.921	378.467	401.468	412.620
65	239.069	259.281	299.010	324.102	332.466
70	161.005	186.097	225.826	251.615	261.372
75	101.761	126.156	162.399	188.188	200.734
80	55.062	75.972	108.034	126.156	138.702
85	19.516	34.153	44.608	44.608	55.759
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	378.67	N.A.	14.00
0-30	800.19	N.A.	29.50
0-40	1297.21	N.A.	47.80
0-60	2203.77	N.A.	81.30
0-80	2662.25	N.A.	98.20
0-90	2711.86	N.A.	100.00
10-90	2613.77	N.A.	96.40
20-40	918.54	N.A.	33.90
20-50	1411.39	N.A.	52.00
40-70	1197.61	N.A.	44.20
60-80	458.48	N.A.	16.90
70-80	167.43	N.A.	6.20
80-90	49.61	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	2711.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	98.10
10-20	280.58
20-30	421.51
30-40	497.02
40-50	492.85
50-60	413.71
60-70	291.05
70-80	167.43
80-90	49.61
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

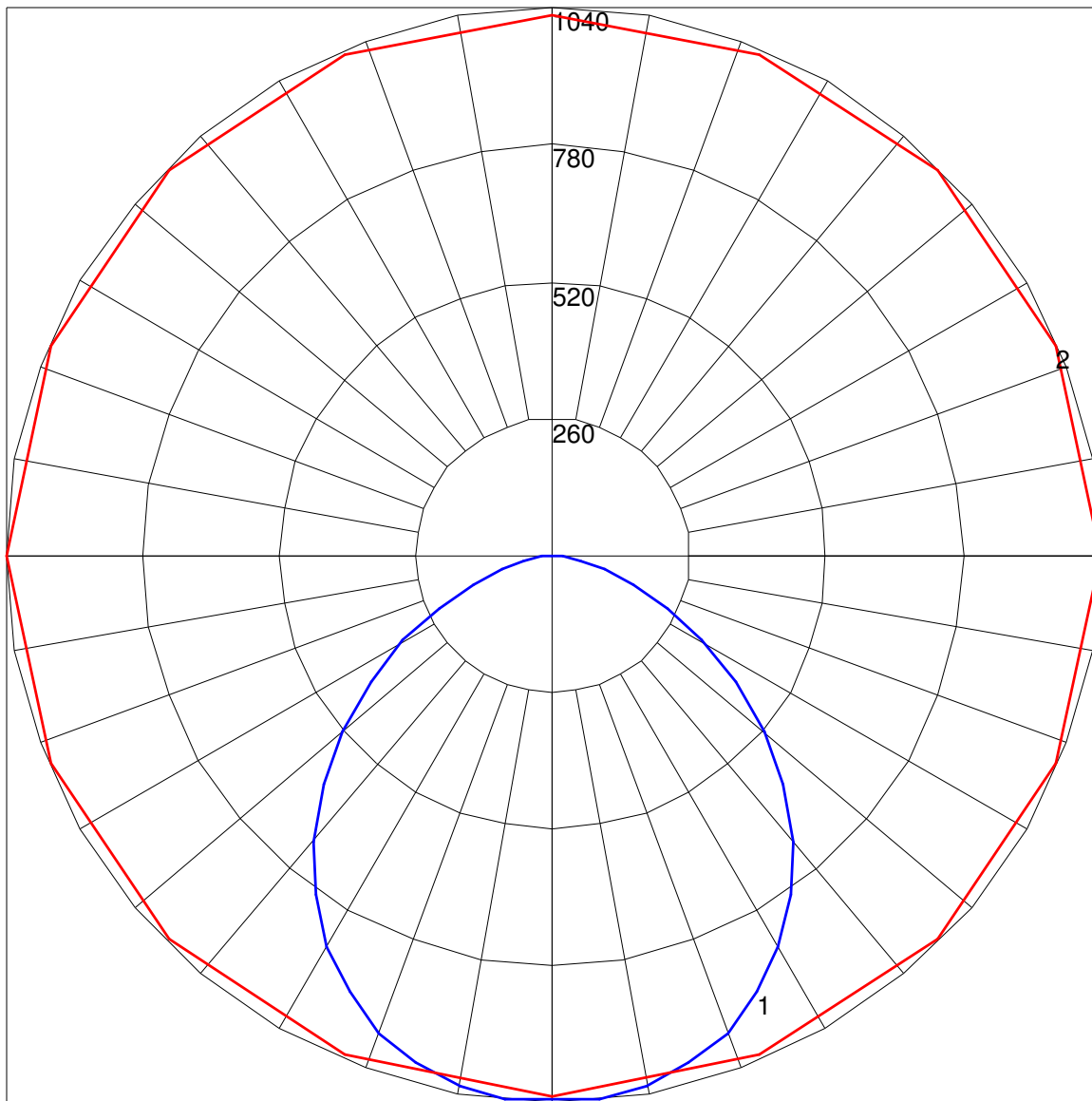
Reflectances

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	14.3	15.9	14.6	16.2	16.5	15.3	16.9	15.7	17.2	17.5
	3H	15.6	17.0	15.9	17.3	17.7	17.1	18.6	17.5	18.9	19.3
	4H	16.0	17.3	16.4	17.7	18.1	17.9	19.3	18.3	19.6	20.0
	6H	16.2	17.5	16.7	17.9	18.3	18.6	19.9	19.0	20.2	20.6
	8H	16.3	17.5	16.7	17.9	18.3	18.8	20.0	19.3	20.4	20.8
	12H	16.3	17.5	16.8	17.9	18.3	19.0	20.1	19.4	20.5	21.0
4H	2H	15.0	16.3	15.4	16.7	17.1	15.8	17.2	16.2	17.5	17.9
	3H	16.5	17.6	16.9	18.0	18.4	17.9	19.0	18.3	19.4	19.8
	4H	17.1	18.1	17.5	18.5	18.9	18.8	19.8	19.2	20.2	20.7
	6H	17.4	18.3	17.9	18.8	19.2	19.7	20.6	20.1	21.0	21.5
	8H	17.5	18.4	18.0	18.8	19.3	20.0	20.8	20.4	21.2	21.7
	12H	17.6	18.4	18.1	18.8	19.3	20.2	20.9	20.7	21.4	21.9
8H	4H	17.5	18.3	18.0	18.8	19.3	19.1	19.9	19.5	20.3	20.8
	6H	18.0	18.7	18.5	19.2	19.7	20.0	20.7	20.5	21.2	21.7
	8H	18.2	18.8	18.7	19.4	19.8	20.4	21.1	21.0	21.6	22.1
	12H	18.3	18.9	18.8	19.4	19.9	20.7	21.3	21.2	21.7	22.3
12H	4H	17.6	18.3	18.1	18.8	19.3	19.1	19.8	19.5	20.3	20.8
	6H	18.2	18.8	18.7	19.3	19.8	20.1	20.7	20.6	21.2	21.7
	8H	18.4	19.0	18.9	19.5	20.0	20.5	21.1	21.0	21.6	22.1

Maximum UGR = 22.3

POLAR GRAPH



Maximum Candela = 1039.914 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)