



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTS-22-L26-835-RA-(L21)-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
 [ISSUE DATE] 03-01-2022
 [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-L26-835-RA-(L21)-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	2192
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	16.5
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	2060	2136	2206
55	1741	1919	2047
65	1331	1665	1851
75	925	1476	1825
85	527	1204	1505

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	837.703	837.703	837.703	837.703	837.703
5	840.520	835.450	834.323	831.506	831.506
10	829.253	824.183	823.620	820.803	820.239
15	809.536	803.902	803.339	802.212	801.649
20	781.368	776.298	775.735	776.298	776.298
25	741.934	736.863	740.244	742.497	740.244
30	693.485	691.232	694.612	698.556	695.739
35	637.714	637.150	644.474	647.291	650.107
40	573.492	573.492	585.885	590.955	595.462
45	500.256	500.256	518.847	530.677	535.747
50	423.077	423.640	448.428	464.201	471.525
55	343.081	349.278	378.009	394.909	403.360
60	264.775	277.169	305.900	324.490	333.504
65	193.229	209.567	241.678	261.958	268.719
70	130.134	150.415	182.526	203.370	211.257
75	82.249	101.967	131.261	152.105	162.245
80	44.505	61.405	87.319	101.967	112.107
85	15.774	27.604	36.054	36.054	45.068
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	306.07	N.A.	14.00
0-30	646.76	N.A.	29.50
0-40	1048.48	N.A.	47.80
0-60	1781.22	N.A.	81.30
0-80	2151.79	N.A.	98.20
0-90	2191.89	N.A.	100.00
10-90	2112.6	N.A.	96.40
20-40	742.42	N.A.	33.90
20-50	1140.77	N.A.	52.00
40-70	967.98	N.A.	44.20
60-80	370.57	N.A.	16.90
70-80	135.33	N.A.	6.20
80-90	40.10	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	2191.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	79.29
10-20	226.78
20-30	340.69
30-40	401.72
40-50	398.35
50-60	334.39
60-70	235.24
70-80	135.33
80-90	40.10
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

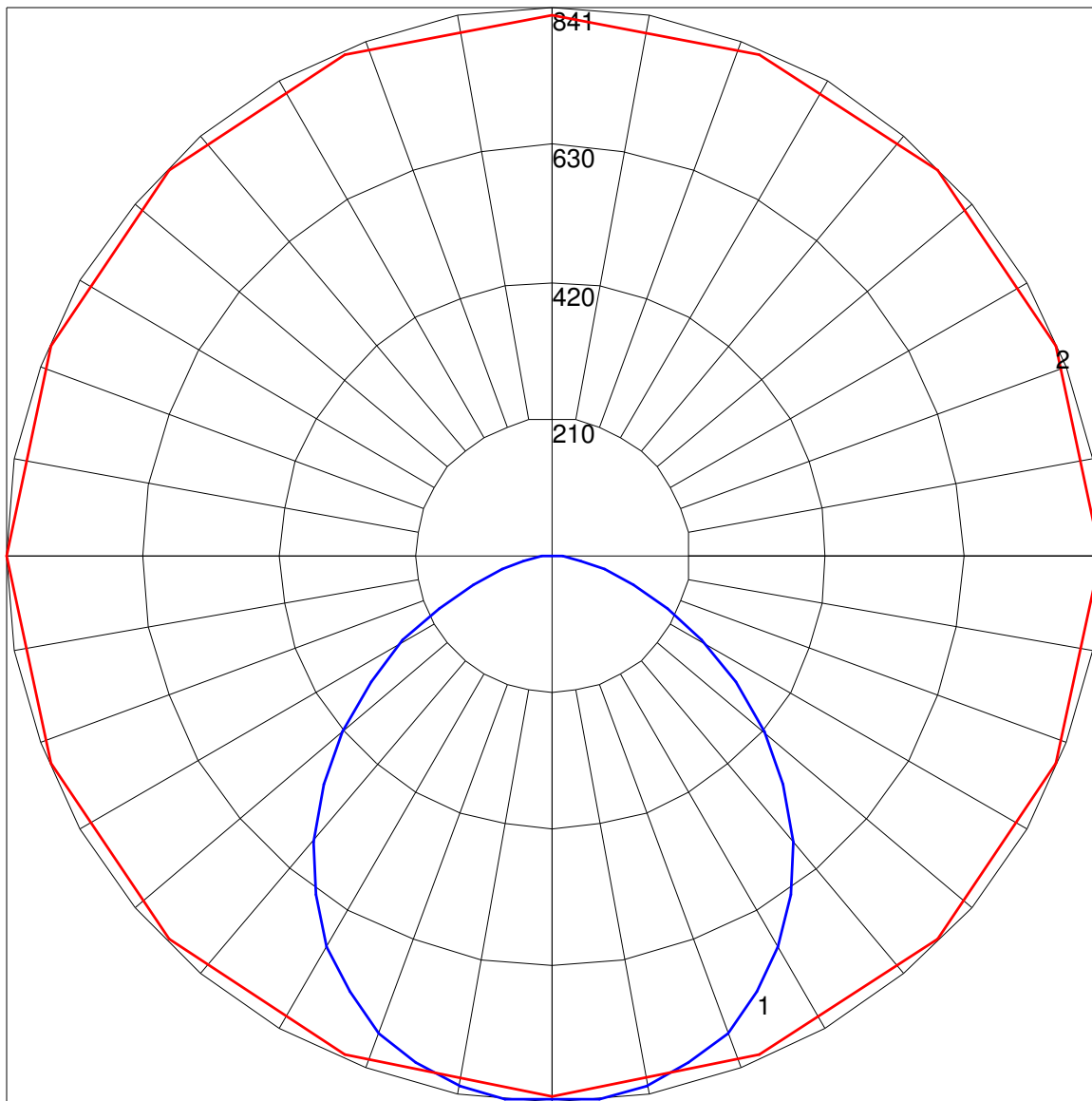
X=2H	Y=2H	13.5	15.1	13.8	15.4	15.7	14.5	16.1	14.9	16.4	16.7
	3H	14.8	16.2	15.1	16.5	16.9	16.3	17.8	16.7	18.1	18.5
	4H	15.2	16.5	15.6	16.9	17.3	17.1	18.5	17.5	18.8	19.2
	6H	15.4	16.7	15.9	17.1	17.5	17.8	19.1	18.2	19.4	19.8
	8H	15.5	16.7	15.9	17.1	17.5	18.0	19.2	18.5	19.6	20.0
	12H	15.5	16.7	16.0	17.1	17.5	18.2	19.3	18.6	19.7	20.2

UGR Viewed Endwise

4H	2H	14.2	15.5	14.6	15.9	16.3	15.0	16.4	15.4	16.7	17.1
	3H	15.7	16.8	16.1	17.2	17.6	17.1	18.2	17.5	18.6	19.0
	4H	16.3	17.3	16.7	17.7	18.1	18.0	19.0	18.4	19.4	19.9
	6H	16.6	17.5	17.1	18.0	18.4	18.9	19.8	19.3	20.2	20.7
	8H	16.7	17.6	17.2	18.0	18.5	19.2	20.0	19.6	20.4	20.9
	12H	16.8	17.6	17.3	18.0	18.5	19.4	20.1	19.9	20.6	21.1
8H	4H	16.7	17.5	17.2	18.0	18.5	18.3	19.1	18.7	19.5	20.0
	6H	17.2	17.9	17.7	18.4	18.9	19.2	19.9	19.7	20.4	20.9
	8H	17.4	18.0	17.9	18.6	19.0	19.6	20.3	20.2	20.8	21.3
	12H	17.5	18.1	18.0	18.6	19.1	19.9	20.5	20.4	20.9	21.5
12H	4H	16.8	17.5	17.3	18.0	18.5	18.3	19.0	18.7	19.5	20.0
	6H	17.4	18.0	17.9	18.5	19.0	19.3	19.9	19.8	20.4	20.9
	8H	17.6	18.2	18.1	18.7	19.2	19.7	20.3	20.2	20.8	21.3

Maximum UGR = 21.5

POLAR GRAPH



Maximum Candela = 840.52 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.)