



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S22-L32-835-AD-(L30)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 19231.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 15-DEC-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2x4' RECESSED WHITE LUMINAIRE w/A-SHAPED
 [MORE] CENTER REFL, FROST ACRYLIC LINEAR RIBBED DIFFUSER
 [LUMCAT] DIG-S22-L32-835-AD-(L30)-DIM-UNV
 [LAMPCAT] HLM 80 CRI 3500K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3028
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	25
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.10
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.90 ft
Luminous Width (90-270)	1.88 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2824	3126	3314
55	2453	2872	3131
65	2210	2869	3434
75	1810	2458	2212
85	1516	1677	1838

IES INDOOR REPORT
PHOTOMETRIC FILENAME : DIG-S22-L32-835-AD-(L30)-DIM-UNV_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1100.583	1100.583	1100.583	1100.583	1100.583
5	1087.547	1087.237	1087.237	1087.858	1087.858
10	1077.305	1077.926	1079.478	1082.271	1083.512
15	1034.784	1036.336	1042.233	1046.888	1048.440
20	1014.920	1015.851	1026.093	1034.784	1037.577
25	912.807	919.325	933.602	945.086	950.362
30	775.312	831.179	896.047	875.873	854.147
35	776.553	791.762	819.075	842.042	850.112
40	708.582	727.515	764.139	791.762	801.073
45	661.405	686.545	732.170	765.690	776.243
50	562.706	589.088	637.817	671.337	681.579
55	466.180	495.045	545.636	582.570	594.985
60	375.551	405.347	455.628	500.632	516.150
65	309.442	342.342	401.623	458.731	480.768
70	231.538	265.679	330.237	351.963	325.271
75	155.187	187.155	210.743	191.190	189.638
80	96.216	121.666	120.425	112.976	111.734
85	43.763	50.280	48.418	50.280	53.074
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : DIG-S22-L32-835-AD-(L30)-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	399.95	N.A.	13.20
0-30	831.45	N.A.	27.50
0-40	1340.48	N.A.	44.30
0-60	2372.49	N.A.	78.40
0-80	2969.75	N.A.	98.10
0-90	3027.85	N.A.	100.00
10-90	2924.16	N.A.	96.60
20-40	940.53	N.A.	31.10
20-50	1489.54	N.A.	49.20
40-70	1417.73	N.A.	46.80
60-80	597.26	N.A.	19.70
70-80	211.54	N.A.	7.00
80-90	58.10	N.A.	1.90
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	3027.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	103.70
10-20	296.26
20-30	431.50
30-40	509.03
40-50	549.01
50-60	482.99
60-70	385.73
70-80	211.54
80-90	58.10
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : DIG-S22-L32-835-AD-(L30)-DIM-UNV_.IES

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	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	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	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	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	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S22-L32-835-AD-(L30)-DIM-UNV_.IES

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

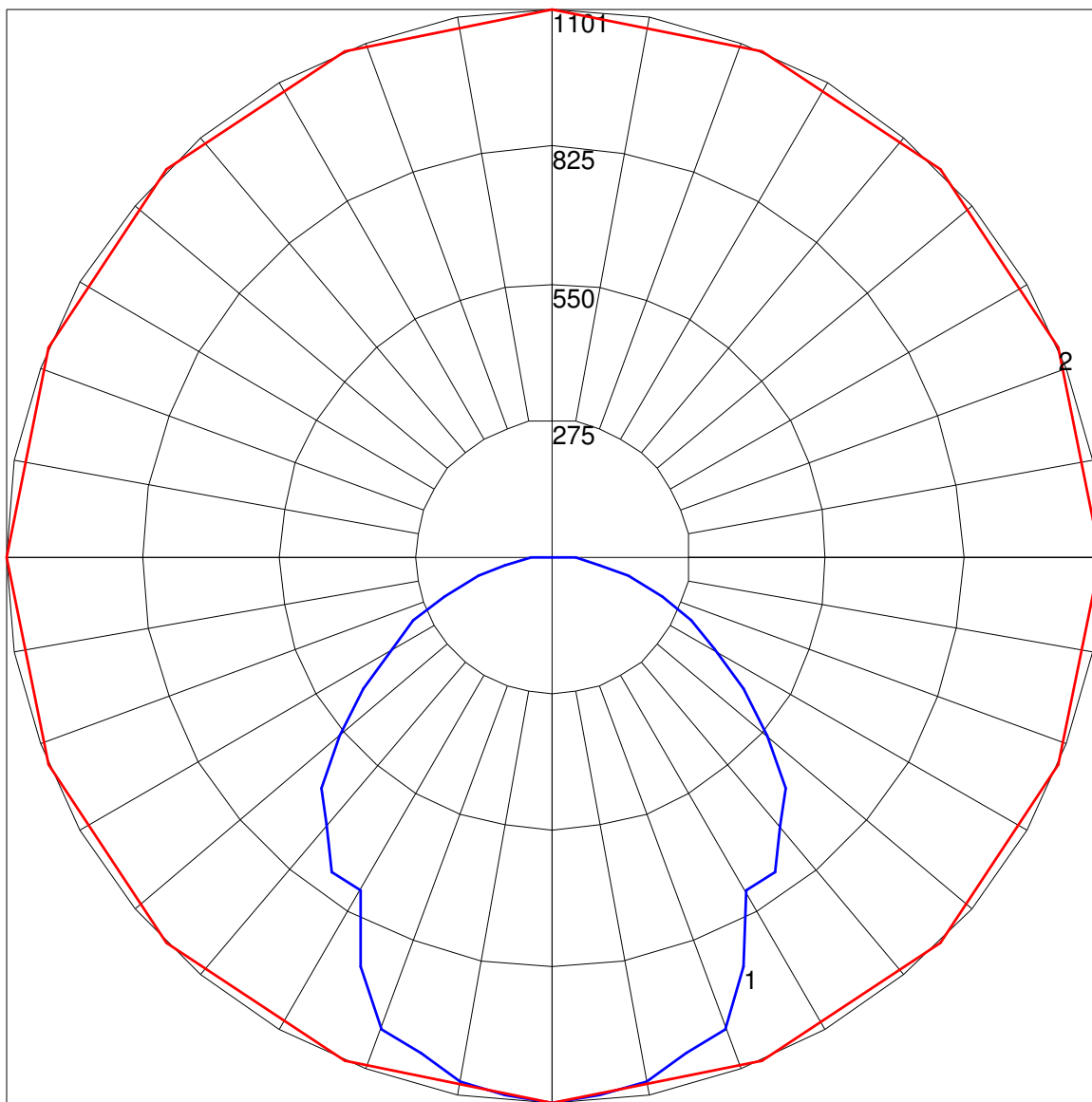
X=2H	Y=2H	14.9	16.5	15.2	16.8	17.2	16.3	17.9	16.7	18.3	18.6
	3H	16.6	18.1	17.0	18.5	18.8	18.4	19.9	18.8	20.3	20.6
	4H	17.3	18.7	17.6	19.0	19.4	19.0	20.4	19.4	20.7	21.1
	6H	17.7	19.0	18.1	19.4	19.8	19.3	20.6	19.7	21.0	21.4
	8H	17.9	19.1	18.3	19.5	19.9	19.4	20.7	19.8	21.1	21.5
	12H	18.0	19.2	18.4	19.5	20.0	19.5	20.7	19.9	21.1	21.5

UGR Viewed Endwise

4H	2H	15.8	17.3	16.2	17.6	18.0	16.9	18.3	17.3	18.7	19.0
	3H	17.8	19.0	18.2	19.4	19.8	19.3	20.5	19.7	20.9	21.3
	4H	18.6	19.6	19.0	20.0	20.5	19.9	21.0	20.3	21.4	21.8
	6H	19.2	20.1	19.6	20.5	21.0	20.3	21.3	20.8	21.7	22.2
	8H	19.4	20.2	19.8	20.7	21.1	20.5	21.4	21.0	21.8	22.3
	12H	19.5	20.3	20.0	20.8	21.2	20.6	21.4	21.1	21.9	22.4
8H	4H	19.0	19.9	19.5	20.3	20.8	20.2	21.0	20.6	21.5	21.9
	6H	19.7	20.5	20.2	21.0	21.4	20.7	21.4	21.2	21.9	22.4
	8H	20.0	20.7	20.5	21.2	21.7	20.9	21.6	21.5	22.1	22.6
	12H	20.2	20.8	20.7	21.3	21.9	21.1	21.7	21.6	22.2	22.8
12H	4H	19.0	19.8	19.5	20.3	20.8	20.2	21.0	20.7	21.4	21.9
	6H	19.8	20.5	20.3	20.9	21.5	20.8	21.4	21.3	21.9	22.4
	8H	20.1	20.7	20.7	21.2	21.8	21.0	21.6	21.5	22.1	22.7

Maximum UGR = 22.8

POLAR GRAPH



Maximum Candela = 1100.583 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.)