



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S24-L50-840-AD-(L30)-LDE1-277_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 19231.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 22-NOV-2019
 [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-S24-L50-840-AD-(L30)-LDE1-277
 [LAMPCAT] HLM 80 CRI 4000K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3087
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	23
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)	3.91 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	1400	1550	1643
55	1217	1424	1553
65	1096	1423	1703
75	898	1219	1097
85	752	832	912

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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	1122.027	1122.027	1122.027	1122.027	1122.027
5	1108.738	1108.421	1108.421	1109.054	1109.054
10	1098.296	1098.929	1100.511	1103.359	1104.624
15	1054.946	1056.528	1062.540	1067.287	1068.869
20	1034.695	1035.645	1046.087	1054.946	1057.794
25	930.593	937.238	951.793	963.501	968.880
30	790.419	847.374	913.506	892.939	870.790
35	791.684	807.189	835.034	858.449	866.676
40	722.388	741.690	779.028	807.189	816.682
45	674.292	699.922	746.436	780.610	791.368
50	573.671	600.566	650.244	684.418	694.860
55	475.264	504.691	556.267	593.921	606.578
60	382.869	413.245	464.505	510.386	526.207
65	315.471	349.012	409.448	467.670	490.136
70	236.050	270.856	336.672	358.821	331.609
75	158.210	190.802	214.850	194.915	193.333
80	98.090	124.037	122.771	115.177	113.911
85	44.615	51.260	49.362	51.260	54.108
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	407.75	N.A.	13.20
0-30	847.65	N.A.	27.50
0-40	1366.6	N.A.	44.30
0-60	2418.71	N.A.	78.40
0-80	3027.61	N.A.	98.10
0-90	3086.85	N.A.	100.00
10-90	2981.13	N.A.	96.60
20-40	958.86	N.A.	31.10
20-50	1518.56	N.A.	49.20
40-70	1445.35	N.A.	46.80
60-80	608.90	N.A.	19.70
70-80	215.66	N.A.	7.00
80-90	59.24	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	3086.85	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	105.72
10-20	302.03
20-30	439.91
30-40	518.95
40-50	559.71
50-60	492.40
60-70	393.24
70-80	215.66
80-90	59.24
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	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

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UGR TABLE - CORRECTED

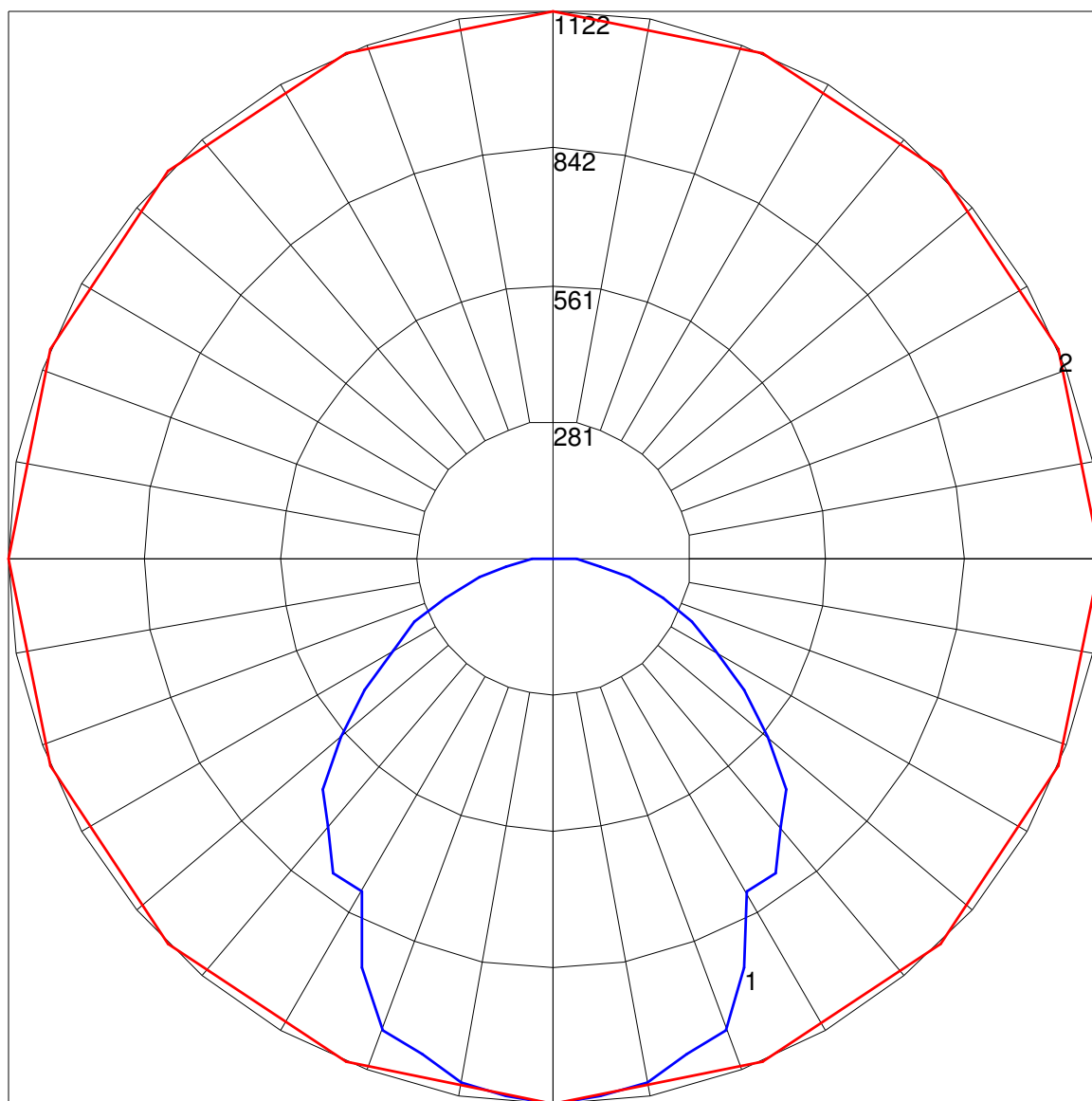
Reflectances

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	12.5	14.1	12.8	14.4	14.8	13.9	15.5	14.2	15.8	16.2
	3H	14.2	15.7	14.6	16.1	16.4	16.0	17.5	16.4	17.9	18.2
	4H	14.8	16.3	15.2	16.6	17.0	16.6	18.0	17.0	18.3	18.7
	6H	15.3	16.6	15.7	17.0	17.4	16.9	18.2	17.3	18.6	19.0
	8H	15.5	16.7	15.9	17.1	17.5	17.0	18.3	17.4	18.7	19.1
	12H	15.6	16.8	16.0	17.1	17.6	17.1	18.3	17.5	18.7	19.1
4H	2H	13.4	14.8	13.8	15.2	15.6	14.5	15.9	14.9	16.3	16.6
	3H	15.4	16.6	15.8	17.0	17.4	16.9	18.1	17.3	18.5	18.9
	4H	16.2	17.2	16.6	17.6	18.1	17.5	18.5	17.9	19.0	19.4
	6H	16.8	17.7	17.2	18.1	18.6	17.9	18.9	18.4	19.3	19.8
	8H	16.9	17.8	17.4	18.3	18.7	18.1	19.0	18.6	19.4	19.9
	12H	17.1	17.9	17.6	18.3	18.8	18.2	19.0	18.7	19.5	20.0
8H	4H	16.6	17.5	17.1	17.9	18.4	17.7	18.6	18.2	19.1	19.5
	6H	17.3	18.1	17.8	18.5	19.0	18.3	19.0	18.8	19.5	20.0
	8H	17.6	18.3	18.1	18.8	19.3	18.5	19.2	19.1	19.7	20.2
	12H	17.8	18.4	18.3	18.9	19.5	18.7	19.3	19.2	19.8	20.3
12H	4H	16.6	17.4	17.1	17.9	18.4	17.8	18.6	18.2	19.0	19.5
	6H	17.4	18.1	17.9	18.5	19.1	18.4	19.0	18.9	19.5	20.0
	8H	17.7	18.3	18.3	18.8	19.4	18.6	19.2	19.1	19.7	20.3

Maximum UGR = 20.3

POLAR GRAPH



Maximum Candela = 1122.027 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.)