



IES INDOOR REPORT
PHOTOMETRIC FILENAME : DIG-S24-L50-940-WPR-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 19230.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 01-27-2023
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2x4' RECESSED LED LUMINAIRE w/A-SHAPED
 [MORE] CENTER REFL, FROST ACRYLIC INTERNAL LENS & PERF BASKET
 [MORE] w/ACRYLIC OVERLAY MATERIAL
 [LUMCAT] DIG-S24-L50-940-WPR-DIM-UNV
 [LAMPCAT] HLM 90 CRI 4000K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3394
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	37.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
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	1411	1653	1865
55	1207	1639	1983
65	1034	1805	2467
75	811	1549	1300
85	658	733	793

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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	1149.688	1149.688	1149.688	1149.688	1149.688
5	1139.919	1139.475	1139.919	1139.919	1140.807
10	1119.936	1120.824	1123.932	1126.597	1128.373
15	1089.739	1091.515	1098.176	1104.393	1108.390
20	1034.675	1039.560	1052.438	1066.204	1073.309
25	954.299	961.404	980.499	999.594	1009.363
30	877.919	873.035	945.418	1003.146	1000.482
35	807.757	823.299	864.597	906.340	924.991
40	732.710	757.577	813.086	869.482	893.018
45	679.422	714.947	796.211	868.594	897.902
50	576.398	622.137	717.167	797.987	829.960
55	471.599	528.883	640.344	734.486	774.452
60	373.460	442.734	562.188	672.761	720.276
65	297.525	380.121	519.558	654.998	710.062
70	216.260	301.521	442.290	513.785	489.805
75	142.989	218.481	273.101	224.254	229.138
80	87.037	134.552	119.454	129.223	132.332
85	39.078	38.634	43.519	46.183	47.071
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	417.47	N.A.	12.30
0-30	873.90	N.A.	25.70
0-40	1419.78	N.A.	41.80
0-60	2586.88	N.A.	76.20
0-80	3336.93	N.A.	98.30
0-90	3393.79	N.A.	100.00
10-90	3285.44	N.A.	96.80
20-40	1002.3	N.A.	29.50
20-50	1603.1	N.A.	47.20
40-70	1659.67	N.A.	48.90
60-80	750.05	N.A.	22.10
70-80	257.49	N.A.	7.60
80-90	56.86	N.A.	1.70
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	3393.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	108.35
10-20	309.12
20-30	456.42
30-40	545.88
40-50	600.79
50-60	566.31
60-70	492.56
70-80	257.49
80-90	56.86
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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	50	48
5	75	61	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

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UGR TABLE - CORRECTED

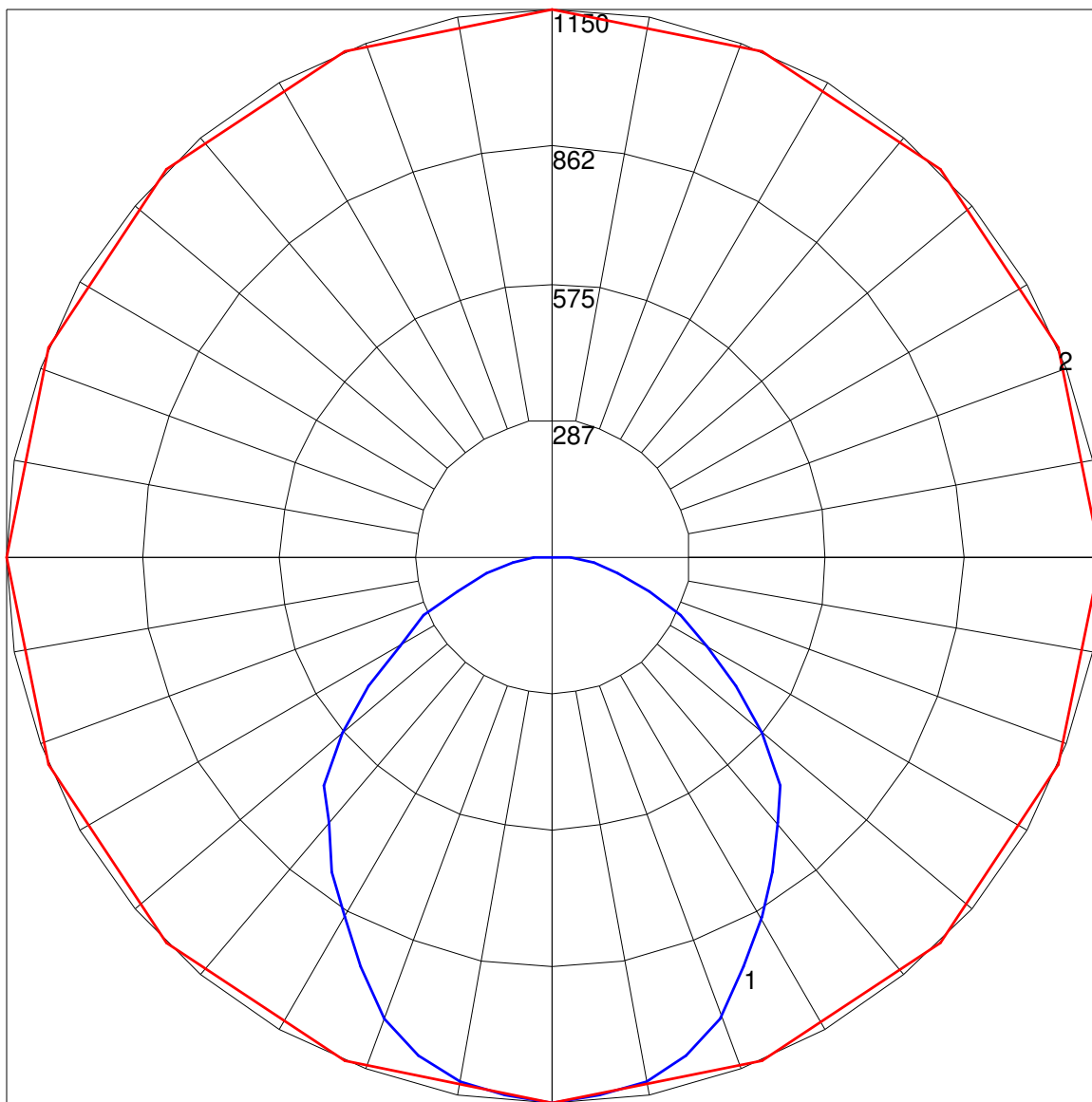
Reflectances

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	12.4	14.1	12.8	14.4	14.7	15.2	16.9	15.6	17.2	17.5
	3H	14.1	15.6	14.5	15.9	16.3	17.8	19.3	18.2	19.6	20.0
	4H	14.6	16.1	15.0	16.4	16.8	18.2	19.7	18.6	20.0	20.4
	6H	15.1	16.4	15.5	16.8	17.1	18.5	19.8	18.9	20.2	20.6
	8H	15.2	16.4	15.6	16.8	17.2	18.5	19.8	19.0	20.2	20.6
	12H	15.2	16.5	15.7	16.9	17.3	18.6	19.8	19.0	20.2	20.6
4H	2H	13.8	15.2	14.2	15.6	15.9	15.8	17.3	16.2	17.6	18.0
	3H	15.7	16.9	16.1	17.3	17.7	18.6	19.8	19.0	20.2	20.6
	4H	16.4	17.5	16.8	17.9	18.3	19.1	20.2	19.5	20.6	21.0
	6H	16.9	17.9	17.4	18.3	18.8	19.4	20.4	19.9	20.8	21.3
	8H	17.1	18.0	17.5	18.4	18.9	19.5	20.4	20.0	20.9	21.3
	12H	17.1	18.0	17.6	18.4	18.9	19.6	20.4	20.1	20.9	21.3
8H	4H	17.0	17.9	17.4	18.3	18.8	19.3	20.2	19.7	20.6	21.1
	6H	17.6	18.3	18.1	18.8	19.3	19.7	20.4	20.2	20.9	21.4
	8H	17.8	18.5	18.3	19.0	19.5	19.8	20.5	20.4	21.0	21.5
	12H	18.0	18.5	18.5	19.0	19.6	20.0	20.5	20.5	21.0	21.6
12H	4H	17.0	17.8	17.5	18.3	18.8	19.3	20.1	19.8	20.6	21.0
	6H	17.7	18.3	18.2	18.8	19.3	19.7	20.4	20.2	20.8	21.4
	8H	17.9	18.5	18.4	19.0	19.6	19.9	20.5	20.4	21.0	21.5

Maximum UGR = 21.6

POLAR GRAPH



Maximum Candela = 1149.688 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.)