



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S24-L64-935-WPR-(L55)-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] 28 JUNE 2022
 [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
 [LUMCAT] DIG-S24-L64-935-WPR-DIM-UNV
 [LAMPCAT] HLM 90 CRI 3500K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3807
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	40.4
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	1583	1855	2091
55	1354	1839	2224
65	1160	2025	2767
75	910	1738	1458
85	738	822	890

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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	1289.588	1289.588	1289.588	1289.588	1289.588
5	1278.630	1278.132	1278.630	1278.630	1279.626
10	1256.215	1257.212	1260.698	1263.687	1265.679
15	1222.344	1224.337	1231.808	1238.782	1243.265
20	1160.580	1166.059	1180.504	1195.945	1203.915
25	1070.423	1078.393	1099.811	1121.229	1132.188
30	984.749	979.270	1060.461	1125.214	1122.226
35	906.049	923.483	969.806	1016.628	1037.548
40	821.870	849.763	912.026	975.285	1001.685
45	762.097	801.946	893.098	974.289	1007.164
50	646.537	697.842	804.436	895.091	930.954
55	528.985	593.240	718.264	823.862	868.691
60	418.904	496.609	630.598	754.626	807.923
65	333.729	426.376	582.780	734.702	796.466
70	242.576	338.212	496.110	576.305	549.407
75	160.389	245.067	306.333	251.542	257.021
80	97.628	150.925	133.990	144.948	148.435
85	43.833	43.335	48.814	51.803	52.799
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	468.27	N.A.	12.30
0-30	980.24	N.A.	25.70
0-40	1592.54	N.A.	41.80
0-60	2901.67	N.A.	76.20
0-80	3742.99	N.A.	98.30
0-90	3806.77	N.A.	100.00
10-90	3685.23	N.A.	96.80
20-40	1124.27	N.A.	29.50
20-50	1798.17	N.A.	47.20
40-70	1861.62	N.A.	48.90
60-80	841.32	N.A.	22.10
70-80	288.82	N.A.	7.60
80-90	63.78	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	3806.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	121.54
10-20	346.73
20-30	511.96
30-40	612.31
40-50	673.90
50-60	635.23
60-70	552.50
70-80	288.82
80-90	63.78
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

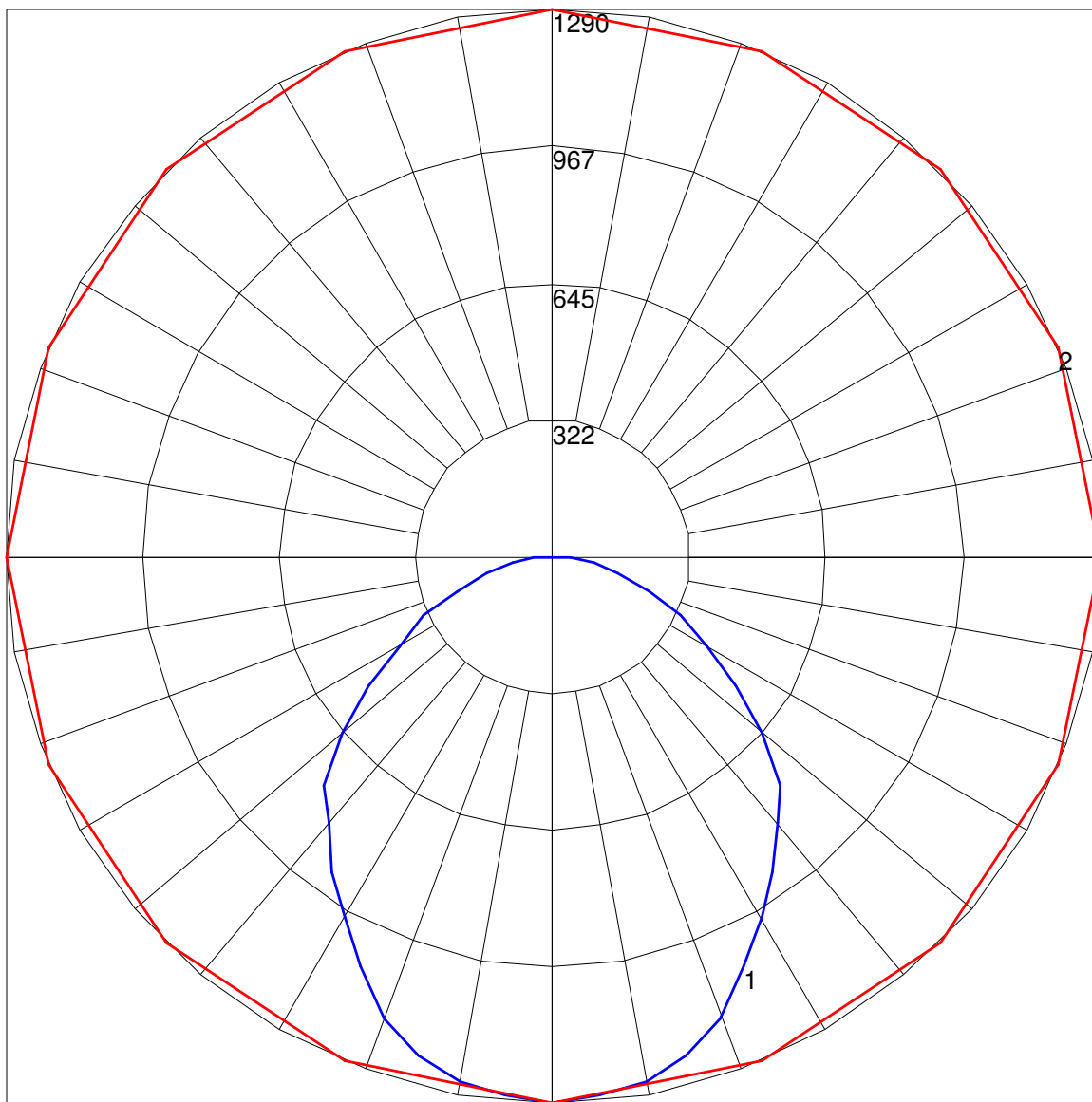
X=2H	Y=2H	12.8	14.5	13.2	14.8	15.1	15.6	17.3	16.0	17.6	17.9
	3H	14.5	16.0	14.9	16.3	16.7	18.2	19.7	18.6	20.0	20.4
	4H	15.0	16.5	15.4	16.8	17.2	18.6	20.1	19.0	20.4	20.8
	6H	15.5	16.8	15.9	17.2	17.5	18.9	20.2	19.3	20.6	21.0
	8H	15.6	16.8	16.0	17.2	17.6	18.9	20.2	19.4	20.6	21.0
	12H	15.6	16.9	16.1	17.3	17.7	19.0	20.2	19.4	20.6	21.0

UGR Viewed Endwise

4H	2H	14.2	15.6	14.6	16.0	16.3	16.2	17.7	16.6	18.0	18.4
	3H	16.1	17.3	16.5	17.7	18.1	19.0	20.2	19.4	20.6	21.0
	4H	16.8	17.9	17.2	18.3	18.7	19.5	20.6	19.9	21.0	21.4
	6H	17.3	18.3	17.8	18.7	19.2	19.8	20.8	20.3	21.2	21.7
	8H	17.5	18.4	17.9	18.8	19.3	19.9	20.8	20.4	21.3	21.7
	12H	17.5	18.4	18.0	18.8	19.3	20.0	20.8	20.5	21.3	21.7
8H	4H	17.4	18.3	17.8	18.7	19.2	19.7	20.6	20.1	21.0	21.5
	6H	18.0	18.7	18.5	19.2	19.7	20.1	20.8	20.6	21.3	21.8
	8H	18.2	18.9	18.7	19.4	19.9	20.2	20.9	20.8	21.4	21.9
	12H	18.4	18.9	18.9	19.4	20.0	20.4	20.9	20.9	21.4	22.0
12H	4H	17.4	18.2	17.9	18.7	19.2	19.7	20.5	20.2	21.0	21.4
	6H	18.1	18.7	18.6	19.2	19.7	20.1	20.8	20.6	21.2	21.8
	8H	18.3	18.9	18.8	19.4	20.0	20.3	20.9	20.8	21.4	21.9

Maximum UGR = 22.0

POLAR GRAPH



Maximum Candela = 1289.588 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.)