



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S24-L64-940-WPR-(L60)-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] 01-30-2023
 [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-L64-940-WPR-(L60)-DIM-UNV
 [LAMPCAT] HLM 90 CRI 4000K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5199
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	44.9
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	2161	2533	2856
55	1849	2511	3037
65	1583	2765	3779
75	1243	2373	1991
85	1008	1123	1215

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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	1761.116	1761.116	1761.116	1761.116	1761.116
5	1746.151	1745.471	1746.151	1746.151	1747.512
10	1715.541	1716.901	1721.663	1725.744	1728.465
15	1669.285	1672.006	1682.210	1691.733	1697.855
20	1584.937	1592.419	1612.146	1633.233	1644.117
25	1461.815	1472.699	1501.949	1531.198	1546.164
30	1344.815	1337.333	1448.210	1536.640	1532.559
35	1237.339	1261.147	1324.408	1388.350	1416.920
40	1122.380	1160.473	1245.502	1331.891	1367.943
45	1040.752	1095.171	1219.653	1330.531	1375.426
50	882.939	953.003	1098.572	1222.374	1271.350
55	722.405	810.154	980.892	1125.101	1186.322
60	572.074	678.190	861.172	1030.549	1103.334
65	455.754	582.277	795.869	1003.340	1087.688
70	331.272	461.876	677.509	787.026	750.294
75	219.034	334.673	418.342	343.516	350.999
80	133.325	206.110	182.982	197.947	202.709
85	59.860	59.180	66.663	70.744	72.104
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	639.49	N.A.	12.30
0-30	1338.65	N.A.	25.70
0-40	2174.84	N.A.	41.80
0-60	3962.64	N.A.	76.20
0-80	5111.58	N.A.	98.30
0-90	5198.68	N.A.	100.00
10-90	5032.7	N.A.	96.80
20-40	1535.35	N.A.	29.50
20-50	2455.65	N.A.	47.20
40-70	2542.31	N.A.	48.90
60-80	1148.94	N.A.	22.10
70-80	394.42	N.A.	7.60
80-90	87.10	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	5198.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	165.98
10-20	473.51
20-30	699.16
30-40	836.19
40-50	920.30
50-60	867.49
60-70	754.52
70-80	394.42
80-90	87.10
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	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

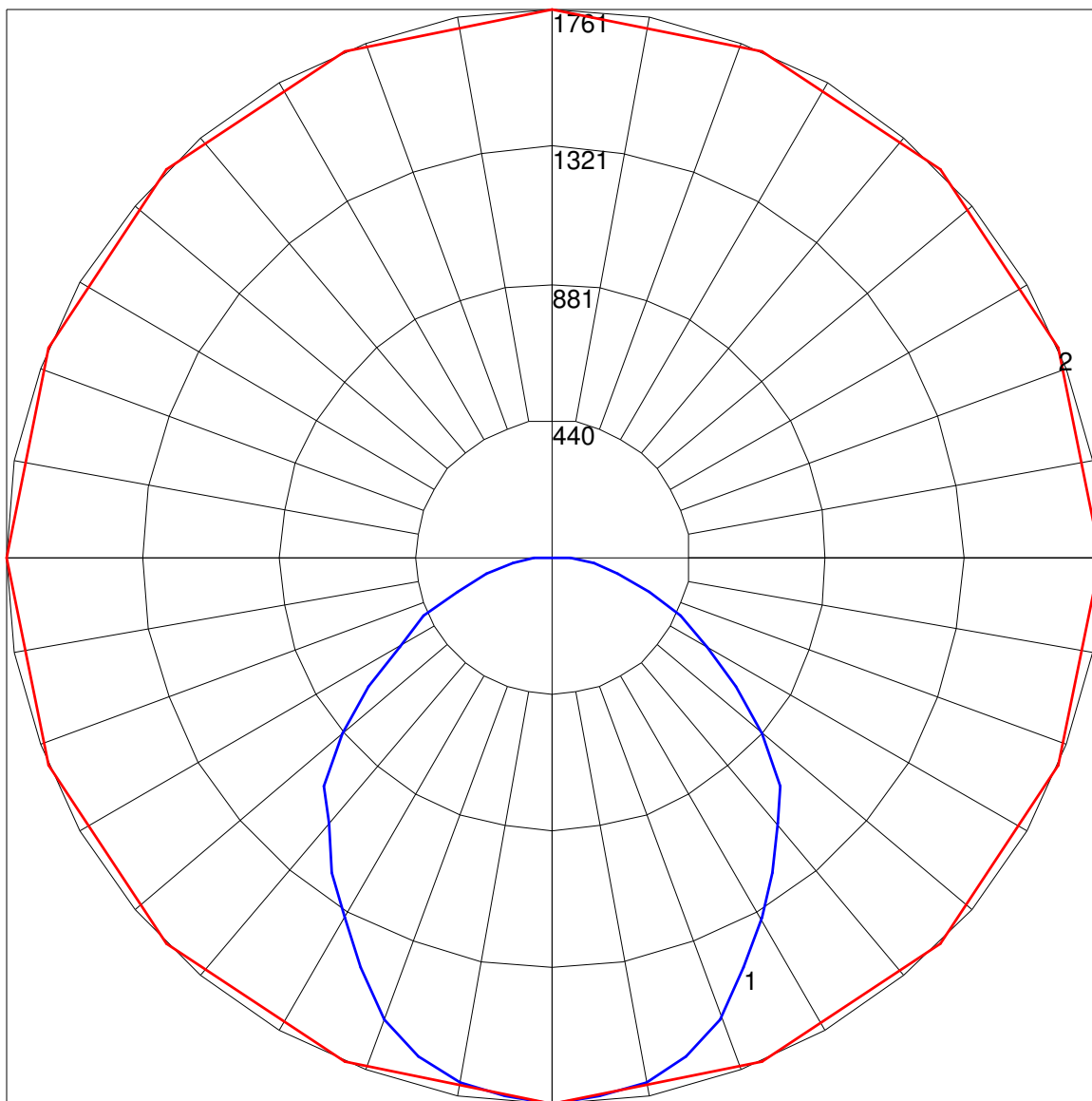
X=2H	Y=2H	13.9	15.6	14.2	15.9	16.2	16.7	18.4	17.1	18.7	19.0
	3H	15.6	17.1	16.0	17.4	17.8	19.3	20.8	19.7	21.1	21.5
	4H	16.1	17.6	16.5	17.9	18.3	19.7	21.2	20.1	21.5	21.9
	6H	16.6	17.9	17.0	18.3	18.6	20.0	21.3	20.4	21.7	22.1
	8H	16.7	17.9	17.1	18.3	18.7	20.0	21.3	20.5	21.7	22.1
	12H	16.7	18.0	17.2	18.4	18.8	20.1	21.3	20.5	21.7	22.1

UGR Viewed Endwise

4H	2H	15.3	16.7	15.7	17.1	17.4	17.3	18.8	17.7	19.1	19.5
	3H	17.2	18.4	17.6	18.8	19.2	20.1	21.3	20.5	21.7	22.1
	4H	17.9	19.0	18.3	19.4	19.8	20.6	21.7	21.0	22.1	22.5
	6H	18.4	19.4	18.9	19.8	20.3	20.9	21.9	21.4	22.3	22.8
	8H	18.6	19.5	19.0	19.9	20.4	21.0	21.9	21.5	22.4	22.8
	12H	18.6	19.5	19.1	19.9	20.4	21.1	21.9	21.6	22.4	22.8
8H	4H	18.5	19.4	18.9	19.8	20.3	20.8	21.7	21.2	22.1	22.6
	6H	19.1	19.8	19.6	20.3	20.8	21.2	21.9	21.7	22.4	22.9
	8H	19.3	20.0	19.8	20.5	21.0	21.3	22.0	21.9	22.5	23.0
	12H	19.5	20.0	20.0	20.5	21.1	21.5	22.0	22.0	22.5	23.1
12H	4H	18.5	19.3	19.0	19.8	20.3	20.8	21.6	21.3	22.1	22.5
	6H	19.2	19.8	19.7	20.3	20.8	21.2	21.9	21.7	22.3	22.9
	8H	19.4	20.0	19.9	20.5	21.1	21.4	22.0	21.9	22.5	23.0

Maximum UGR = 23.1

POLAR GRAPH



Maximum Candela = 1761.116 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.)