



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S24-L64-935-AD-(L55)-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] 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 LINEAR RIBBED DIFFUSER
 [LUMCAT] DIG-S24-L64-935-AD-(L55)-DIM-UNV
 [LAMPCAT] HLM 90 CRI 3500K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4587
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	40.4
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	2081	2303	2442
55	1808	2116	2307
65	1629	2114	2530
75	1334	1811	1630
85	1117	1236	1355

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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	1667.231	1667.231	1667.231	1667.231	1667.231
5	1647.483	1647.013	1647.013	1647.954	1647.954
10	1631.968	1632.908	1635.259	1639.490	1641.371
15	1567.554	1569.905	1578.838	1585.891	1588.242
20	1537.463	1538.874	1554.389	1567.554	1571.786
25	1382.776	1392.650	1414.278	1431.674	1439.667
30	1174.490	1259.121	1357.387	1326.826	1293.914
35	1176.371	1199.409	1240.784	1275.577	1287.802
40	1073.403	1102.084	1157.564	1199.409	1213.514
45	1001.937	1040.021	1109.136	1159.915	1175.901
50	852.422	892.387	966.204	1016.982	1032.498
55	706.199	749.925	826.563	882.513	901.320
60	568.908	614.045	690.213	758.388	781.896
65	468.762	518.600	608.403	694.915	728.297
70	350.748	402.467	500.263	533.175	492.740
75	235.086	283.514	319.247	289.626	287.275
80	145.753	184.308	182.427	171.143	169.262
85	66.294	76.168	73.347	76.168	80.399
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	605.87	N.A.	13.20
0-30	1259.54	N.A.	27.50
0-40	2030.65	N.A.	44.30
0-60	3593.99	N.A.	78.40
0-80	4498.76	N.A.	98.10
0-90	4586.78	N.A.	100.00
10-90	4429.69	N.A.	96.60
20-40	1424.78	N.A.	31.10
20-50	2256.45	N.A.	49.20
40-70	2147.66	N.A.	46.80
60-80	904.77	N.A.	19.70
70-80	320.45	N.A.	7.00
80-90	88.02	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	4586.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	157.09
10-20	448.79
20-30	653.66
30-40	771.11
40-50	831.67
50-60	731.67
60-70	584.32
70-80	320.45
80-90	88.02
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

X=2H	Y=2H	13.9	15.5	14.2	15.8	16.2	15.3	16.9	15.6	17.2	17.6
	3H	15.6	17.1	16.0	17.5	17.8	17.4	18.9	17.8	19.3	19.6
	4H	16.2	17.7	16.6	18.0	18.4	18.0	19.4	18.4	19.7	20.1
	6H	16.7	18.0	17.1	18.4	18.8	18.3	19.6	18.7	20.0	20.4
	8H	16.9	18.1	17.3	18.5	18.9	18.4	19.7	18.8	20.1	20.5
	12H	17.0	18.2	17.4	18.5	19.0	18.5	19.7	18.9	20.1	20.5

UGR Viewed Endwise

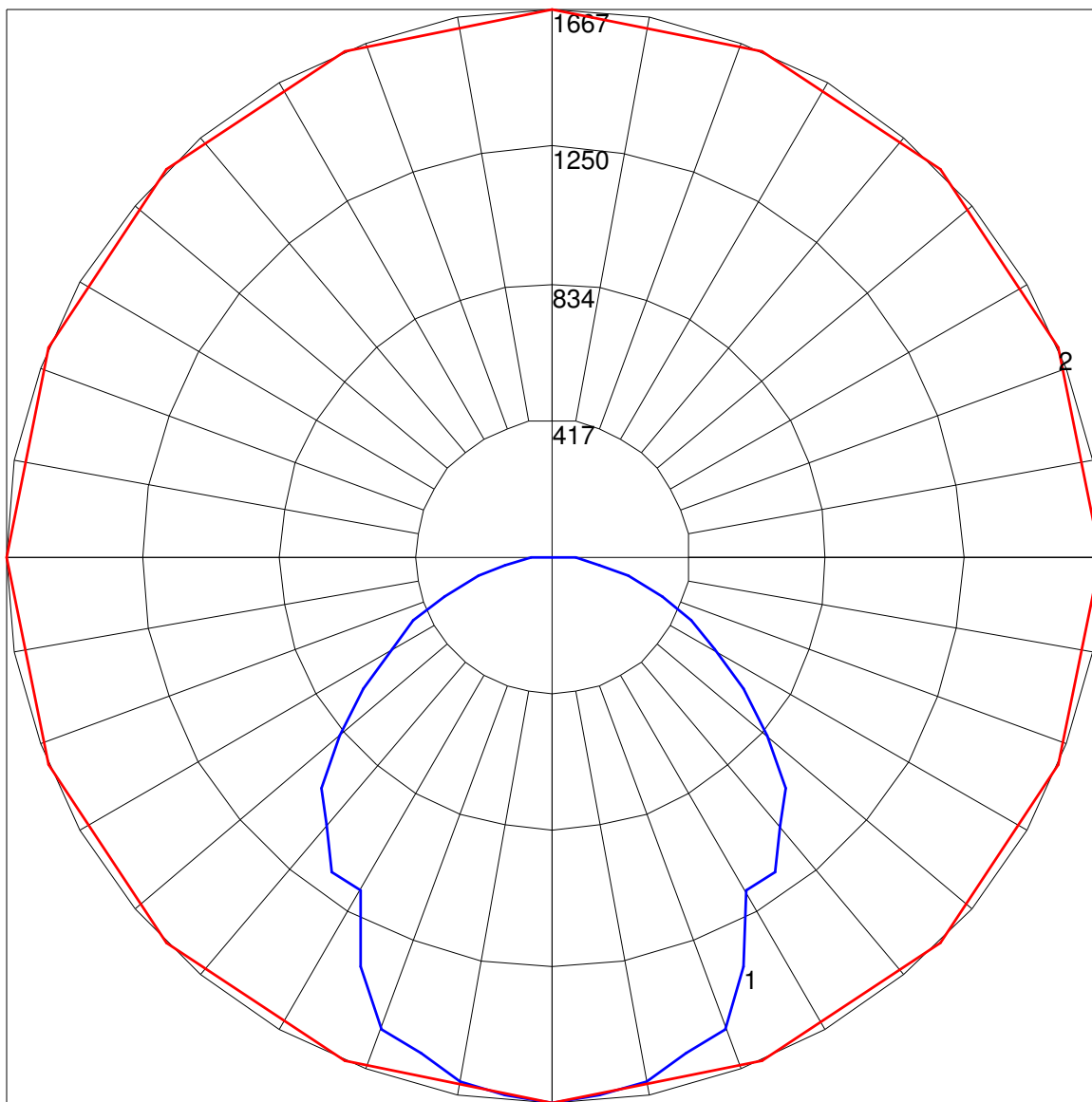
4H	2H	14.8	16.2	15.2	16.6	17.0	15.9	17.3	16.3	17.7	18.0
	3H	16.8	18.0	17.2	18.4	18.8	18.3	19.5	18.7	19.9	20.3
	4H	17.6	18.6	18.0	19.0	19.5	18.9	19.9	19.3	20.4	20.8
	6H	18.2	19.1	18.6	19.5	20.0	19.3	20.3	19.8	20.7	21.2
	8H	18.3	19.2	18.8	19.7	20.1	19.5	20.4	20.0	20.8	21.3
	12H	18.5	19.3	19.0	19.7	20.2	19.6	20.4	20.1	20.9	21.4

8H	4H	18.0	18.9	18.5	19.3	19.8	19.1	20.0	19.6	20.5	20.9
	6H	18.7	19.5	19.2	19.9	20.4	19.7	20.4	20.2	20.9	21.4
	8H	19.0	19.7	19.5	20.2	20.7	19.9	20.6	20.4	21.1	21.6
	12H	19.2	19.8	19.7	20.3	20.9	20.1	20.7	20.6	21.2	21.7

12H	4H	18.0	18.8	18.5	19.3	19.8	19.2	20.0	19.6	20.4	20.9
	6H	18.8	19.5	19.3	19.9	20.5	19.8	20.4	20.3	20.9	21.4
	8H	19.1	19.7	19.6	20.2	20.8	20.0	20.6	20.5	21.1	21.7

Maximum UGR = 21.7

POLAR GRAPH



Maximum Candela = 1667.231 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.)