



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S24-L50-840-AD-EM10W-DIM-UNV_(EMER MODE).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] 01-05-2023
 [MANUFACT] 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-EM10W-DIM-UNV[EMER MODE)
 [LAMPCAT] HLM 80 CRI 4000K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1370
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	10
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	621	688	729
55	540	632	689
65	486	631	756
75	398	541	487
85	334	369	405

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	497.952	497.952	497.952	497.952	497.952
5	492.054	491.914	491.914	492.195	492.195
10	487.420	487.701	488.403	489.667	490.229
15	468.182	468.884	471.552	473.658	474.360
20	459.194	459.616	464.250	468.182	469.445
25	412.994	415.943	422.403	427.598	429.986
30	350.785	376.062	405.411	396.283	386.453
35	351.347	358.228	370.585	380.977	384.628
40	320.593	329.159	345.730	358.228	362.441
45	299.249	310.623	331.266	346.432	351.206
50	254.593	266.529	288.576	303.742	308.376
55	210.920	223.980	246.870	263.580	269.197
60	169.916	183.397	206.146	226.508	233.529
65	140.005	154.890	181.712	207.550	217.520
70	104.758	120.205	149.414	159.244	147.167
75	70.213	84.677	95.350	86.503	85.801
80	43.532	55.047	54.485	51.115	50.554
85	19.800	22.749	21.907	22.749	24.013
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	180.96	N.A.	13.20
0-30	376.19	N.A.	27.50
0-40	606.49	N.A.	44.30
0-60	1073.42	N.A.	78.40
0-80	1343.65	N.A.	98.10
0-90	1369.93	N.A.	100.00
10-90	1323.02	N.A.	96.60
20-40	425.54	N.A.	31.10
20-50	673.93	N.A.	49.20
40-70	641.44	N.A.	46.80
60-80	270.23	N.A.	19.70
70-80	95.71	N.A.	7.00
80-90	26.29	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	1369.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	46.92
10-20	134.04
20-30	195.23
30-40	230.31
40-50	248.40
50-60	218.53
60-70	174.52
70-80	95.71
80-90	26.29
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	9.7	11.3	10.0	11.6	11.9	11.1	12.7	11.4	13.0	13.4
	3H	11.4	12.9	11.8	13.3	13.6	13.2	14.7	13.6	15.1	15.4
	4H	12.0	13.5	12.4	13.8	14.2	13.8	15.2	14.1	15.5	15.9
	6H	12.5	13.8	12.9	14.2	14.6	14.1	15.4	14.5	15.8	16.2
	8H	12.7	13.9	13.1	14.3	14.7	14.2	15.5	14.6	15.9	16.2
	12H	12.8	14.0	13.2	14.3	14.8	14.3	15.5	14.7	15.9	16.3

UGR Viewed Endwise

4H	2H	10.6	12.0	11.0	12.4	12.8	11.7	13.1	12.1	13.5	13.8
	3H	12.6	13.8	13.0	14.2	14.6	14.1	15.3	14.5	15.7	16.1
	4H	13.3	14.4	13.8	14.8	15.3	14.7	15.7	15.1	16.2	16.6
	6H	14.0	14.9	14.4	15.3	15.8	15.1	16.1	15.6	16.5	17.0
	8H	14.1	15.0	14.6	15.5	15.9	15.3	16.2	15.8	16.6	17.1
	12H	14.3	15.1	14.8	15.5	16.0	15.4	16.2	15.9	16.7	17.1

8H	4H	13.8	14.7	14.3	15.1	15.6	14.9	15.8	15.4	16.3	16.7
	6H	14.5	15.3	15.0	15.7	16.2	15.5	16.2	16.0	16.7	17.2
	8H	14.8	15.5	15.3	16.0	16.5	15.7	16.4	16.2	16.9	17.4
	12H	15.0	15.6	15.5	16.1	16.7	15.9	16.5	16.4	17.0	17.5

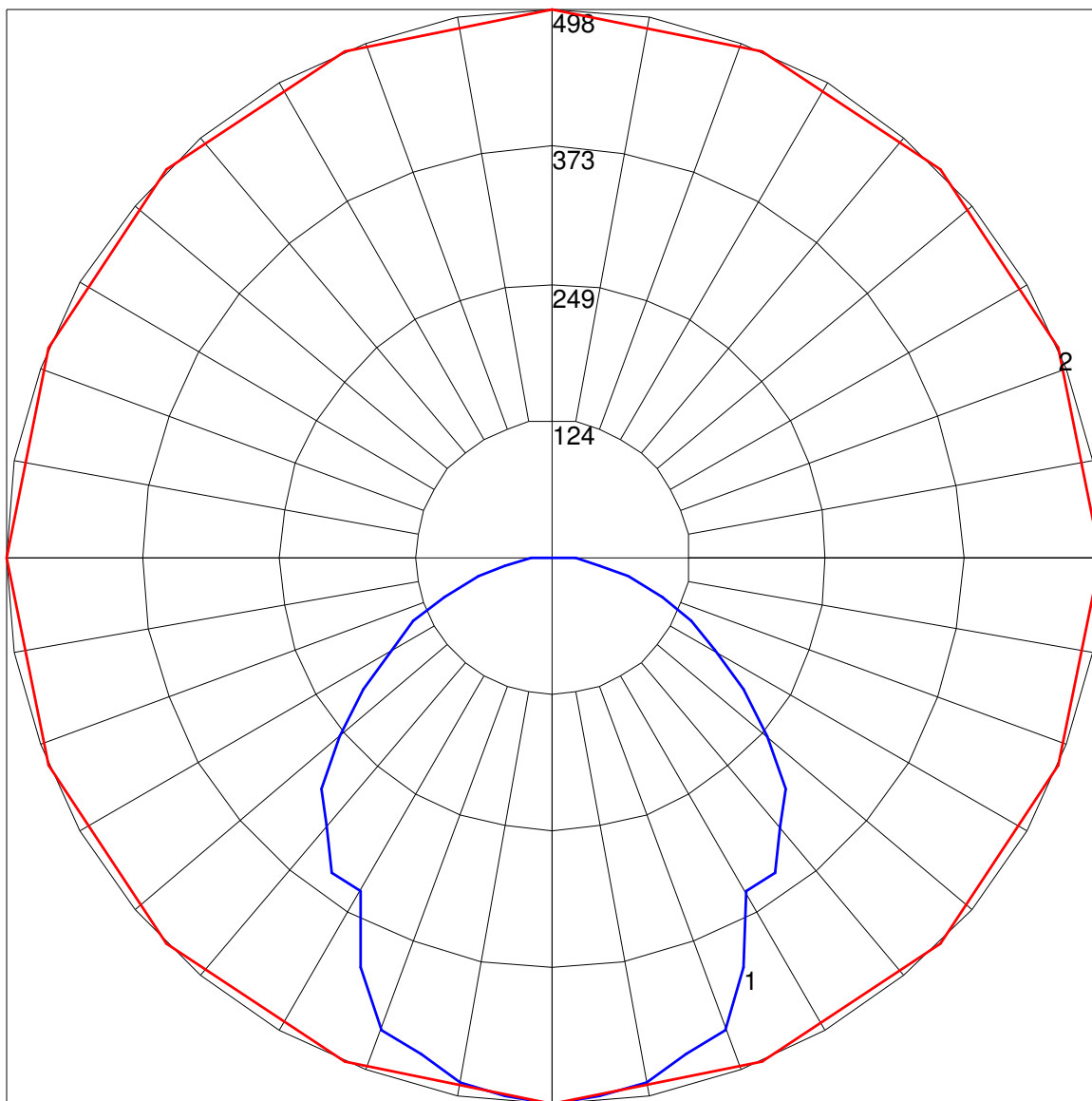
12H	4H	13.8	14.6	14.3	15.1	15.6	15.0	15.8	15.4	16.2	16.7
	6H	14.6	15.3	15.1	15.7	16.3	15.6	16.2	16.1	16.7	17.2
	8H	14.9	15.5	15.4	16.0	16.6	15.8	16.4	16.3	16.9	17.4

Maximum UGR = 17.5

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POLAR GRAPH



Maximum Candela = 497.952 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.)