



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S24-L50-940-WPR-(L30)-EM10W-DIM-UNV_(EMER MODE).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-L50-940-WPR-(L30)-EM10W-DIM-UNV
 [LAMPCAT] HLM 90 CRI 4000K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1230
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	10
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	511	599	676
55	438	594	719
65	375	654	894
75	294	562	471
85	239	266	287

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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	416.652	416.652	416.652	416.652	416.652
5	413.111	412.950	413.111	413.111	413.433
10	405.870	406.191	407.318	408.283	408.927
15	394.926	395.570	397.984	400.237	401.685
20	374.971	376.741	381.408	386.397	388.972
25	345.842	348.417	355.337	362.257	365.798
30	318.162	316.392	342.623	363.544	362.579
35	292.735	298.367	313.334	328.461	335.221
40	265.537	274.549	294.666	315.104	323.633
45	246.225	259.100	288.550	314.782	325.404
50	208.889	225.465	259.905	289.194	300.781
55	170.909	191.670	232.063	266.181	280.665
60	135.343	160.449	203.739	243.811	261.031
65	107.824	137.757	188.290	237.374	257.330
70	78.374	109.273	160.288	186.198	177.508
75	51.820	79.178	98.973	81.270	83.041
80	31.543	48.762	43.291	46.831	47.958
85	14.162	14.001	15.771	16.737	17.059
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	151.29	N.A.	12.30
0-30	316.70	N.A.	25.70
0-40	514.53	N.A.	41.80
0-60	937.50	N.A.	76.20
0-80	1209.32	N.A.	98.30
0-90	1229.92	N.A.	100.00
10-90	1190.66	N.A.	96.80
20-40	363.24	N.A.	29.50
20-50	580.97	N.A.	47.20
40-70	601.47	N.A.	48.90
60-80	271.82	N.A.	22.10
70-80	93.31	N.A.	7.60
80-90	20.61	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	1229.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	39.27
10-20	112.03
20-30	165.41
30-40	197.83
40-50	217.73
50-60	205.23
60-70	178.51
70-80	93.31
80-90	20.61
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	8.9	10.6	9.2	10.9	11.2	11.7	13.4	12.1	13.7	14.0
	3H	10.6	12.1	11.0	12.4	12.8	14.3	15.8	14.7	16.1	16.5
	4H	11.1	12.6	11.5	12.9	13.3	14.7	16.2	15.1	16.5	16.9
	6H	11.6	12.9	12.0	13.3	13.6	15.0	16.3	15.4	16.7	17.1
	8H	11.7	12.9	12.1	13.3	13.7	15.0	16.3	15.5	16.7	17.1
	12H	11.7	13.0	12.2	13.4	13.8	15.1	16.3	15.5	16.7	17.1

UGR Viewed Endwise

4H	2H	10.3	11.7	10.7	12.1	12.4	12.3	13.8	12.7	14.1	14.5
	3H	12.2	13.4	12.6	13.8	14.2	15.1	16.3	15.5	16.7	17.1
	4H	12.9	14.0	13.3	14.4	14.8	15.6	16.7	16.0	17.1	17.5
	6H	13.4	14.4	13.9	14.8	15.3	15.9	16.9	16.4	17.3	17.8
	8H	13.6	14.4	14.0	14.9	15.4	16.0	16.9	16.5	17.4	17.8
	12H	13.6	14.4	14.1	14.9	15.4	16.1	16.9	16.6	17.4	17.8

8H	4H	13.5	14.4	13.9	14.8	15.3	15.8	16.7	16.2	17.1	17.6
	6H	14.1	14.8	14.6	15.3	15.8	16.2	16.9	16.7	17.4	17.9
	8H	14.3	15.0	14.8	15.5	16.0	16.3	17.0	16.8	17.5	18.0
	12H	14.5	15.0	15.0	15.5	16.1	16.5	17.0	17.0	17.5	18.1

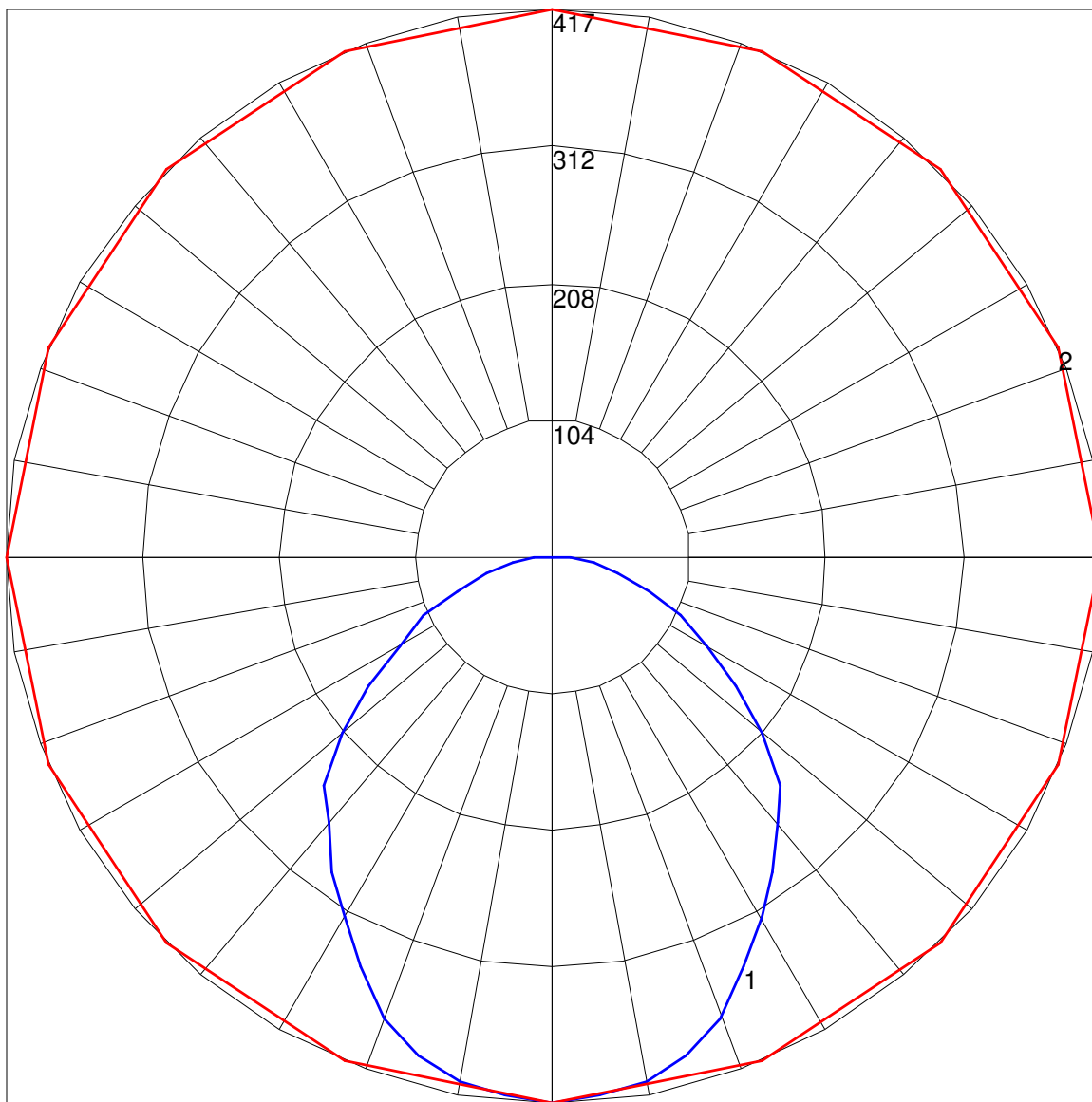
12H	4H	13.5	14.3	14.0	14.8	15.3	15.8	16.6	16.3	17.1	17.5
	6H	14.2	14.8	14.7	15.3	15.8	16.2	16.9	16.7	17.3	17.9
	8H	14.4	15.0	14.9	15.5	16.1	16.4	17.0	16.9	17.5	18.0

Maximum UGR = 18.1

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POLAR GRAPH



Maximum Candela = 416.652 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.)