



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S24-L50-940-WPR-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-EM10W-WPR-DIM-UNV  
 [LAMPCAT] HLM 90 CRI 4000K CCT

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	910
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
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	378	443	500
55	324	440	532
65	277	484	661
75	218	415	349
85	177	197	213

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	308.255	308.255	308.255	308.255	308.255
<b>5</b>	305.635	305.516	305.635	305.635	305.873
<b>10</b>	300.277	300.516	301.349	302.063	302.540
<b>15</b>	292.181	292.657	294.443	296.110	297.182
<b>20</b>	277.417	278.727	282.180	285.871	287.776
<b>25</b>	255.867	257.772	262.892	268.011	270.631
<b>30</b>	235.388	234.078	253.486	268.964	268.249
<b>35</b>	216.576	220.743	231.816	243.008	248.009
<b>40</b>	196.454	203.122	218.005	233.126	239.436
<b>45</b>	182.167	191.692	213.480	232.888	240.746
<b>50</b>	154.544	166.808	192.287	213.957	222.529
<b>55</b>	126.445	141.804	171.689	196.931	207.646
<b>60</b>	100.132	118.706	150.734	180.381	193.121
<b>65</b>	79.772	101.918	139.304	175.618	190.382
<b>70</b>	57.984	80.844	118.587	137.756	131.327
<b>75</b>	38.338	58.579	73.224	60.127	61.437
<b>80</b>	23.336	36.076	32.028	34.647	35.481
<b>85</b>	10.478	10.358	11.668	12.383	12.621
<b>90</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : DIG-S24-L50-940-WPR-EM10W-DIM-UNV\_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	111.93	N.A.	12.30
0-30	234.31	N.A.	25.70
0-40	380.67	N.A.	41.80
0-60	693.60	N.A.	76.20
0-80	894.70	N.A.	98.30
0-90	909.94	N.A.	100.00
10-90	880.89	N.A.	96.80
20-40	268.74	N.A.	29.50
20-50	429.82	N.A.	47.20
40-70	444.99	N.A.	48.90
60-80	201.10	N.A.	22.10
70-80	69.04	N.A.	7.60
80-90	15.25	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	909.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	29.05
10-20	82.88
20-30	122.38
30-40	146.36
40-50	161.08
50-60	151.84
60-70	132.07
70-80	69.04
80-90	15.25
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	7.9	9.6	8.2	9.9	10.2	10.7	12.4	11.1	12.7	13.0
	3H	9.6	11.1	10.0	11.4	11.8	13.3	14.8	13.7	15.1	15.5
	4H	10.1	11.6	10.5	11.9	12.3	13.7	15.2	14.1	15.5	15.9
	6H	10.6	11.9	11.0	12.3	12.6	14.0	15.3	14.4	15.7	16.1
	8H	10.7	11.9	11.1	12.3	12.7	14.0	15.3	14.5	15.7	16.1
	12H	10.7	12.0	11.2	12.4	12.8	14.1	15.3	14.5	15.7	16.1

### UGR Viewed Endwise

4H	2H	9.3	10.7	9.7	11.1	11.4	11.3	12.8	11.7	13.1	13.5
	3H	11.2	12.4	11.6	12.8	13.2	14.1	15.3	14.5	15.7	16.1
	4H	11.9	13.0	12.3	13.4	13.8	14.6	15.7	15.0	16.1	16.5
	6H	12.4	13.4	12.9	13.8	14.3	14.9	15.9	15.4	16.3	16.8
	8H	12.6	13.4	13.0	13.9	14.4	15.0	15.9	15.5	16.4	16.8
	12H	12.6	13.4	13.1	13.9	14.4	15.1	15.9	15.6	16.4	16.8

8H	4H	12.5	13.4	12.9	13.8	14.3	14.8	15.7	15.2	16.1	16.6
	6H	13.1	13.8	13.6	14.3	14.8	15.2	15.9	15.7	16.4	16.9
	8H	13.3	14.0	13.8	14.5	15.0	15.3	16.0	15.8	16.5	17.0
	12H	13.5	14.0	14.0	14.5	15.1	15.5	16.0	16.0	16.5	17.1

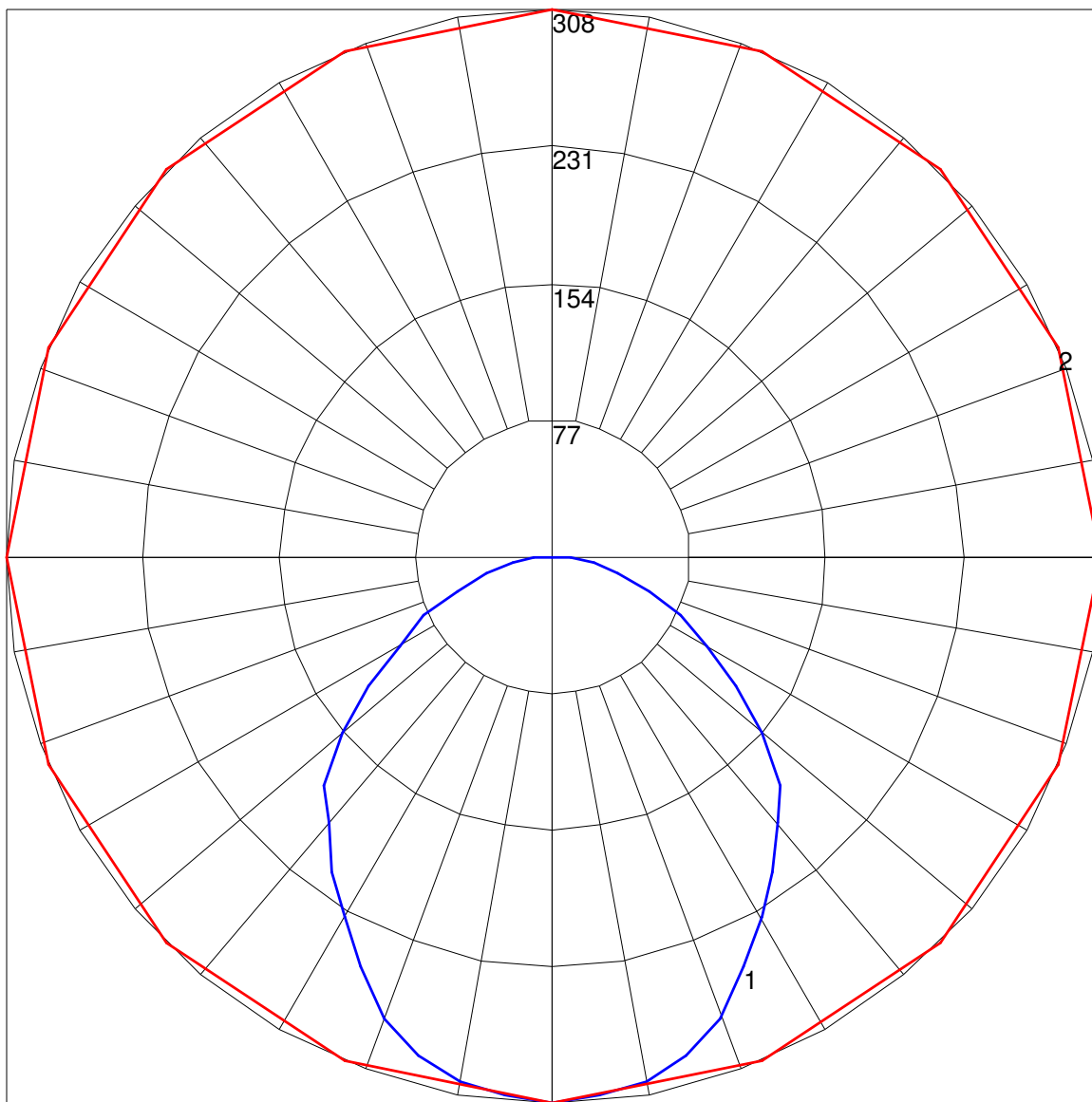
12H	4H	12.5	13.3	13.0	13.8	14.3	14.8	15.6	15.3	16.1	16.5
	6H	13.2	13.8	13.7	14.3	14.8	15.2	15.9	15.7	16.3	16.9
	8H	13.4	14.0	13.9	14.5	15.1	15.4	16.0	15.9	16.5	17.0

Maximum UGR = 17.1

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## POLAR GRAPH



Maximum Candela = 308.255 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.)