



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S22-L32-840-WPR-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]GEN FROM 101511920CHI-008  
 [TESTLAB]Intertek  
 [ISSUE DATE] 10-06-2022  
 [MANUFAC]WILLIAMS INDOOR  
 [OTHER]H.E. WILLIAMS INC. - CARTHAGE, MO.64836  
 [LUMINAIRE] 2x2' RECESSED LED TROFFER  
 [MORE] WITH PERFORATED CENTER BASKET W/OVERLAY  
 [LUMCAT]DIG-S22-L32-840-WPR-DIM-UNV  
 [LAMPCAT] HLM 80 CRI, 4000K CCT  
 [ \_SEARCH\_SOURCETYPE] LED  
 [ \_SEARCH\_APPLICATION] Indoor, Architectural, Classroom, Commercial, Educational, Office, Direct, Indirect  
 [ \_SEARCH\_MOUNTING] Ceiling, Recessed

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2640
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	25.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2186	2491	2816
55	1955	2512	3107
65	1650	2629	3483
75	1351	2095	2085
85	1020	1171	1225

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : DIG-S22-L32-840-WPR-DIM-UNV\_.IES**

**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	896.360	896.360	896.360	896.360	896.360
2.5	893.791	893.879	895.031	896.803	896.714
5.0	889.627	890.158	892.285	894.765	894.588
7.5	883.071	883.957	886.792	890.336	890.601
10.0	874.389	875.629	879.350	884.134	884.754
12.5	862.607	865.353	869.960	876.604	877.756
15.0	848.255	850.736	858.709	867.036	869.428
17.5	831.866	835.587	845.509	856.494	859.772
20.0	813.085	817.957	830.271	844.268	848.875
22.5	792.797	798.556	813.882	830.714	836.915
25.0	770.118	777.028	795.721	816.451	823.184
27.5	746.287	754.083	775.699	800.062	808.566
30.0	719.976	730.252	754.969	781.989	792.886
32.5	692.070	703.144	732.733	763.208	775.876
35.0	662.215	675.238	708.813	743.452	758.070
37.5	630.854	646.003	683.565	722.899	739.466
40.0	598.429	615.439	657.519	701.460	720.685
42.5	564.676	584.078	631.031	679.756	701.460
45.0	529.860	551.476	603.922	657.519	682.591
47.5	494.513	518.166	576.282	635.460	663.987
50.0	458.279	484.413	548.642	613.490	645.648
52.5	421.603	451.015	521.090	592.051	628.107
55.0	384.483	417.705	493.893	570.878	610.921
57.5	347.098	384.217	466.518	549.882	593.557
60.0	310.244	350.021	438.789	528.177	573.890
62.5	274.099	317.066	410.617	501.334	544.744
65.0	239.017	284.819	380.940	464.303	504.612
67.5	206.062	252.660	348.781	413.364	434.980
70.0	175.321	220.945	306.701	332.126	323.090
72.5	146.706	188.787	252.926	235.297	231.133
75.0	119.863	156.097	185.863	178.333	184.977
77.5	94.703	121.901	127.659	138.290	142.808
80.0	71.493	86.287	92.754	99.576	103.385
82.5	49.345	53.952	61.039	65.025	67.152
85.0	30.475	31.893	34.993	36.411	36.588
87.5	15.946	15.238	15.238	15.238	14.972
90.0	2.481	2.392	2.038	1.949	1.860
92.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : DIG-S22-L32-840-WPR-DIM-UNV\_.IES

CANDELA TABULATION - (Cont.)

135.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : DIG-S22-L32-840-WPR-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	327.17	N.A.	12.40
0-30	694.26	N.A.	26.30
0-40	1138.2	N.A.	43.10
0-60	2048.31	N.A.	77.60
0-80	2597.23	N.A.	98.40
0-90	2639.63	N.A.	100.00
10-90	2554.86	N.A.	96.80
20-40	811.03	N.A.	30.70
20-50	1278.05	N.A.	48.40
40-70	1275.75	N.A.	48.30
60-80	548.91	N.A.	20.80
70-80	183.28	N.A.	6.90
80-90	42.40	N.A.	1.60
90-110	0.29	N.A.	0.00
90-120	0.29	N.A.	0.00
90-130	0.29	N.A.	0.00
90-150	0.29	N.A.	0.00
90-180	0.29	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2639.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	84.77
10-20	242.40
20-30	367.10
30-40	443.93
40-50	467.02
50-60	443.10
60-70	365.63
70-80	183.28
80-90	42.40
90-100	0.29
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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : DIG-S22-L32-840-WPR-DIM-UNV\_.IES**

**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	99	96	106	102	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	36	29	25	23

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : DIG-S22-L32-840-WPR-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

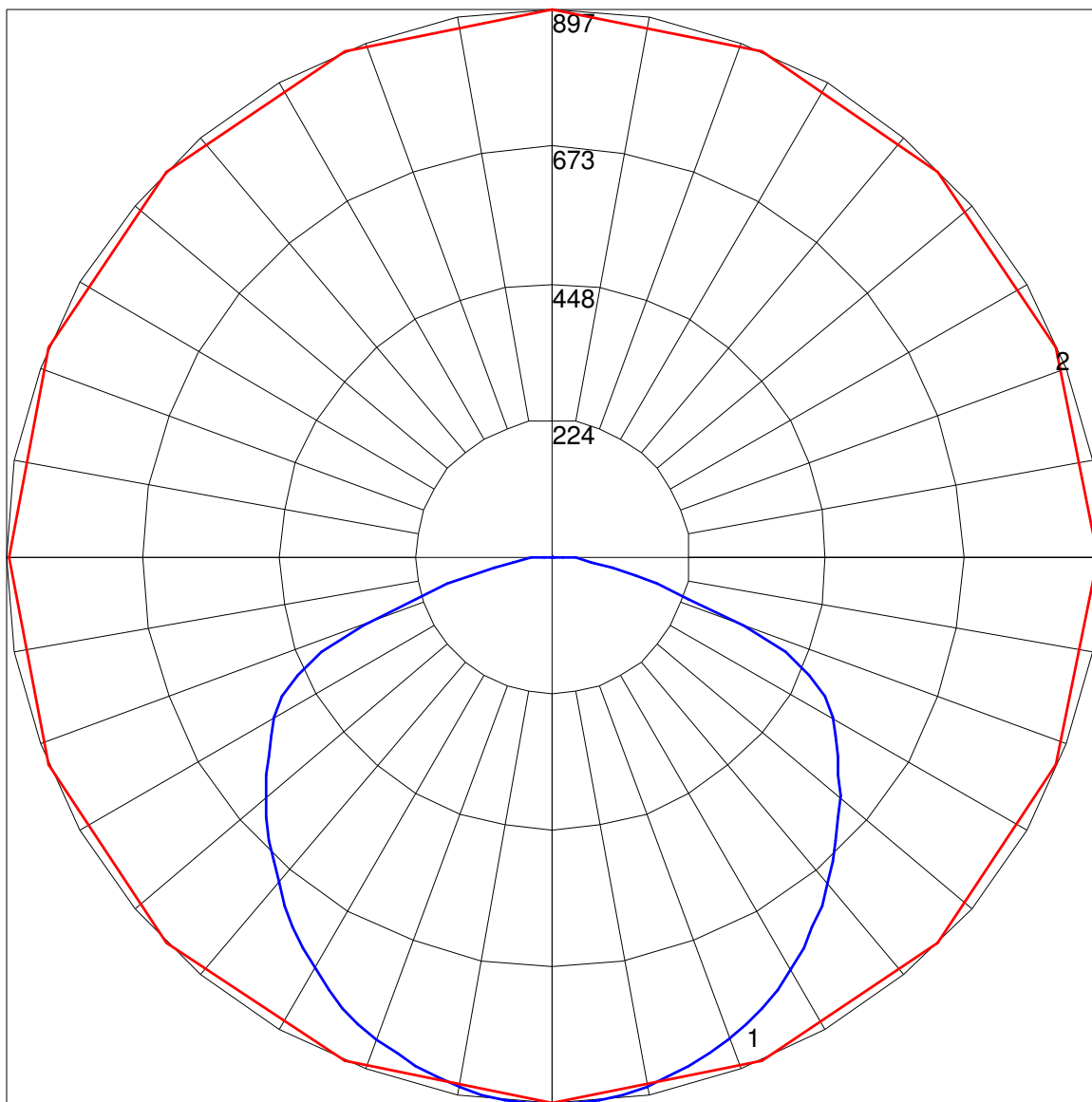
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	14.1	15.8	14.5	16.1	16.4	16.9	18.5	17.2	18.9	19.2
	3H	15.7	17.2	16.1	17.6	17.9	19.0	20.5	19.4	20.8	21.2
	4H	16.3	17.7	16.7	18.1	18.4	19.4	20.9	19.8	21.2	21.6
	6H	16.7	18.0	17.1	18.4	18.8	19.7	21.0	20.1	21.4	21.8
	8H	16.8	18.1	17.2	18.4	18.8	19.8	21.1	20.2	21.4	21.8
	12H	16.9	18.1	17.3	18.5	18.9	19.8	21.0	20.3	21.4	21.9
4H	2H	15.3	16.8	15.7	17.1	17.5	17.4	18.8	17.8	19.2	19.5
	3H	17.2	18.4	17.6	18.8	19.2	19.7	20.9	20.1	21.3	21.7
	4H	17.8	18.9	18.3	19.3	19.7	20.2	21.3	20.7	21.7	22.1
	6H	18.3	19.2	18.7	19.7	20.1	20.6	21.6	21.1	22.0	22.4
	8H	18.4	19.3	18.9	19.7	20.2	20.7	21.6	21.2	22.0	22.5
	12H	18.5	19.3	19.0	19.8	20.2	20.8	21.6	21.3	22.1	22.5
8H	4H	18.3	19.2	18.8	19.6	20.1	20.4	21.3	20.9	21.7	22.2
	6H	18.9	19.6	19.4	20.1	20.5	20.9	21.6	21.4	22.1	22.6
	8H	19.0	19.7	19.5	20.2	20.7	21.0	21.7	21.5	22.2	22.7
	12H	19.2	19.7	19.7	20.2	20.8	21.1	21.7	21.6	22.2	22.8
12H	4H	18.3	19.1	18.8	19.6	20.1	20.4	21.2	20.9	21.7	22.1
	6H	18.9	19.6	19.4	20.0	20.6	20.9	21.6	21.4	22.0	22.6
	8H	19.1	19.7	19.6	20.2	20.8	21.1	21.7	21.6	22.2	22.7

Maximum UGR = 22.8

POLAR GRAPH



Maximum Candela = 896.803 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)