



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S22-L32-935-WPR-DRV-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]GEN FROM 101511920CHI-008  
 [TESTLAB]Intertek  
 [ISSUE DATE] 02-17-2022  
 [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-L32-935-WPR-DRV-UNV  
 [LAMPCAT] HLM 90 CRI, 3500K 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	2127
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
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	1761	2008	2269
55	1576	2024	2504
65	1329	2119	2807
75	1089	1688	1680
85	822	944	987

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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>
0.0	722.302	722.302	722.302	722.302	722.302
2.5	720.231	720.303	721.231	722.659	722.587
5.0	716.876	717.305	719.018	721.017	720.874
7.5	711.594	712.307	714.592	717.447	717.662
10.0	704.598	705.597	708.595	712.450	712.950
12.5	695.103	697.316	701.028	706.382	707.310
15.0	683.538	685.537	691.962	698.672	700.600
17.5	670.331	673.330	681.325	690.177	692.819
20.0	655.197	659.124	669.046	680.326	684.038
22.5	638.849	643.490	655.840	669.403	674.401
25.0	620.574	626.142	641.205	657.910	663.335
27.5	601.371	607.653	625.072	644.703	651.556
30.0	580.169	588.450	608.367	630.140	638.921
32.5	557.681	566.605	590.448	615.006	625.214
35.0	533.624	544.118	571.174	599.086	610.865
37.5	508.353	520.560	550.828	582.524	595.874
40.0	482.225	495.931	529.840	565.249	580.740
42.5	455.026	470.660	508.495	547.759	565.249
45.0	426.970	444.389	486.651	529.840	550.043
47.5	398.487	417.547	464.378	512.065	535.052
50.0	369.289	390.348	442.105	494.360	520.274
52.5	339.735	363.435	419.903	477.085	506.139
55.0	309.823	336.593	397.987	460.023	492.290
57.5	279.697	309.609	375.928	443.104	478.298
60.0	250.000	282.053	353.584	425.614	462.450
62.5	220.874	255.497	330.882	403.984	438.964
65.0	192.604	229.512	306.968	374.143	406.625
67.5	166.048	203.598	281.054	333.095	350.514
70.0	141.276	178.041	247.145	267.633	260.351
72.5	118.218	152.127	203.812	189.606	186.251
75.0	96.588	125.785	149.772	143.704	149.058
77.5	76.314	98.230	102.870	111.436	115.077
80.0	57.610	69.532	74.743	80.240	83.310
82.5	39.763	43.475	49.186	52.399	54.112
85.0	24.557	25.700	28.198	29.340	29.483
87.5	12.850	12.279	12.279	12.279	12.065
90.0	1.999	1.927	1.642	1.571	1.499
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

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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

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	263.64	N.A.	12.40
0-30	559.45	N.A.	26.30
0-40	917.18	N.A.	43.10
0-60	1650.57	N.A.	77.60
0-80	2092.89	N.A.	98.40
0-90	2127.06	N.A.	100.00
10-90	2058.75	N.A.	96.80
20-40	653.54	N.A.	30.70
20-50	1029.87	N.A.	48.40
40-70	1028.02	N.A.	48.30
60-80	442.32	N.A.	20.80
70-80	147.69	N.A.	6.90
80-90	34.17	N.A.	1.60
90-110	0.24	N.A.	0.00
90-120	0.24	N.A.	0.00
90-130	0.24	N.A.	0.00
90-150	0.24	N.A.	0.00
90-180	0.24	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2127.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	68.31
10-20	195.33
20-30	295.81
30-40	357.73
40-50	376.34
50-60	357.05
60-70	294.63
70-80	147.69
80-90	34.17
90-100	0.24
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	99	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
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	26	37	30	25	36	30	25	36	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	13.3	15.0	13.7	15.3	15.6	16.1	17.7	16.4	18.1	18.4
	3H	14.9	16.4	15.3	16.8	17.1	18.2	19.7	18.6	20.0	20.4
	4H	15.5	16.9	15.9	17.3	17.6	18.6	20.0	19.0	20.4	20.8
	6H	15.9	17.2	16.3	17.6	18.0	18.9	20.2	19.3	20.6	21.0
	8H	16.0	17.3	16.4	17.6	18.0	19.0	20.3	19.4	20.6	21.0
	12H	16.1	17.3	16.5	17.7	18.1	19.0	20.2	19.5	20.6	21.1

UGR Viewed Endwise

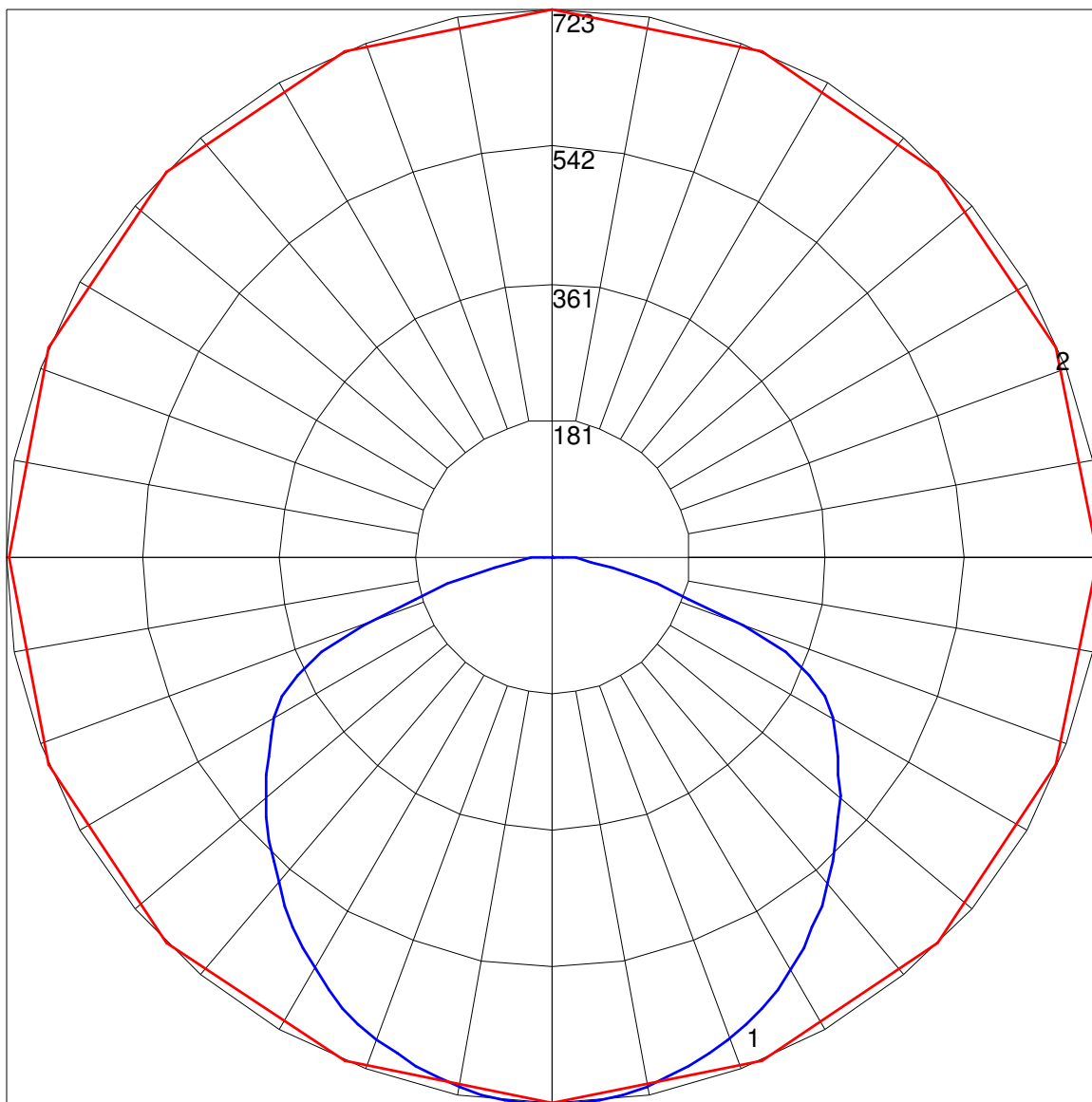
4H	2H	14.5	16.0	14.9	16.3	16.7	16.6	18.0	17.0	18.4	18.7
	3H	16.4	17.6	16.8	18.0	18.4	18.9	20.1	19.3	20.5	20.9
	4H	17.0	18.1	17.5	18.5	18.9	19.4	20.5	19.9	20.9	21.3
	6H	17.5	18.4	17.9	18.9	19.3	19.8	20.8	20.3	21.2	21.6
	8H	17.6	18.5	18.1	18.9	19.4	19.9	20.8	20.4	21.2	21.7
	12H	17.7	18.5	18.2	19.0	19.4	20.0	20.8	20.5	21.3	21.7

8H	4H	17.5	18.4	18.0	18.8	19.3	19.6	20.5	20.1	20.9	21.4
	6H	18.1	18.8	18.6	19.3	19.7	20.1	20.8	20.6	21.3	21.8
	8H	18.2	18.9	18.7	19.4	19.9	20.2	20.9	20.7	21.4	21.9
	12H	18.4	18.9	18.9	19.4	20.0	20.3	20.9	20.8	21.4	22.0

12H	4H	17.5	18.3	18.0	18.8	19.3	19.6	20.4	20.1	20.9	21.3
	6H	18.1	18.8	18.6	19.2	19.8	20.1	20.8	20.6	21.2	21.8
	8H	18.3	18.9	18.8	19.4	20.0	20.3	20.9	20.8	21.4	21.9

Maximum UGR = 22.0

POLAR GRAPH



Maximum Candela = 722.659 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.)