



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S22-L48-927-WPR-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM 101511920CHI-008
 [TESTLAB]Intertek
 [ISSUE DATE] 13-MAR-2020
 [MANUFACTURER]WILLIAMS INDOOR
 [OTHER]H.E. WILLIAMS INC. - CARTHAGE, MO.
 [LUMEN CATEGORY]DIG-S22-L48-927-WPR-DIM-UNV
 [LUMINAIRE]Recessed LED Troffer
 [LAMP]LED. LUMINAIRE
 [SEARCH_SOURCE TYPE]LED
 [SEARCH_APPLICATION]INDOOR,ARCHITECTURAL,DIRECT-INDIRECT
 [SEARCH_MOUNTING]RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2903
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	36.2
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	2404	2740	3097
55	2150	2762	3417
65	1814	2891	3830
75	1486	2304	2293
85	1122	1288	1347

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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	985.656	985.656	985.656	985.656	985.656
2.5	982.831	982.928	984.195	986.143	986.046
5.0	978.253	978.837	981.175	983.903	983.708
7.5	971.044	972.018	975.135	979.032	979.324
10.0	961.497	962.861	966.952	972.213	972.895
12.5	948.541	951.560	956.626	963.932	965.199
15.0	932.759	935.487	944.254	953.411	956.042
17.5	914.737	918.829	929.739	941.819	945.423
20.0	894.085	899.443	912.984	928.375	933.441
22.5	871.777	878.109	894.962	913.471	920.290
25.0	846.838	854.437	874.991	897.787	905.190
27.5	820.633	829.206	852.975	879.765	889.117
30.0	791.701	803.001	830.180	859.892	871.874
32.5	761.015	773.192	805.729	839.240	853.170
35.0	728.185	742.506	779.426	817.516	833.590
37.5	693.700	710.358	751.663	794.915	813.132
40.0	658.046	676.750	723.022	771.341	792.480
42.5	620.930	642.264	693.895	747.474	771.341
45.0	582.646	606.415	664.086	723.022	750.591
47.5	543.777	569.787	633.692	698.766	730.134
50.0	503.934	532.671	603.298	674.607	709.969
52.5	463.603	495.945	573.002	651.032	690.680
55.0	422.786	459.317	543.095	627.749	671.781
57.5	381.676	422.494	512.993	604.662	652.688
60.0	341.151	384.891	482.502	580.795	631.062
62.5	301.405	348.652	451.524	551.278	599.012
65.0	262.829	313.193	418.889	510.558	554.882
67.5	226.590	277.831	383.527	454.544	478.313
70.0	192.786	242.956	337.255	365.213	355.277
72.5	161.321	207.594	278.123	258.737	254.159
75.0	131.804	171.647	204.379	196.099	203.405
77.5	104.138	134.045	140.377	152.067	157.035
80.0	78.615	94.883	101.995	109.496	113.685
82.5	54.261	59.326	67.120	71.503	73.841
85.0	33.511	35.070	38.479	40.038	40.233
87.5	17.535	16.756	16.756	16.756	16.463
90.0	2.728	2.630	2.241	2.143	2.046
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	359.76	N.A.	12.40
0-30	763.43	N.A.	26.30
0-40	1251.58	N.A.	43.10
0-60	2252.37	N.A.	77.60
0-80	2855.97	N.A.	98.40
0-90	2902.59	N.A.	100.00
10-90	2809.38	N.A.	96.80
20-40	891.82	N.A.	30.70
20-50	1405.37	N.A.	48.40
40-70	1402.84	N.A.	48.30
60-80	603.60	N.A.	20.80
70-80	201.54	N.A.	6.90
80-90	46.63	N.A.	1.60
90-110	0.32	N.A.	0.00
90-120	0.32	N.A.	0.00
90-130	0.32	N.A.	0.00
90-150	0.32	N.A.	0.00
90-180	0.32	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2902.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	93.21
10-20	266.55
20-30	403.67
30-40	488.16
40-50	513.55
50-60	487.24
60-70	402.06
70-80	201.54
80-90	46.63
90-100	0.32
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	137	137	137	137	134	134	134	134	128	128	128	122	122	122	117	117	117	115
1	125	119	114	110	122	117	112	108	112	108	105	107	104	101	103	101	98	96
2	113	104	96	89	110	101	94	88	97	91	86	94	88	84	90	86	82	79
3	103	91	81	73	100	89	80	73	85	78	71	82	76	70	79	74	69	66
4	94	80	70	62	91	78	69	61	76	67	61	73	66	60	70	64	59	56
5	86	71	61	53	84	70	60	53	68	59	52	65	58	52	63	56	51	48
6	80	64	54	46	77	63	53	46	61	52	45	59	51	45	57	50	45	42
7	74	58	48	41	72	57	47	40	55	47	40	54	46	40	52	45	40	37
8	69	53	43	36	67	52	43	36	51	42	36	49	41	36	48	41	35	33
9	64	48	39	32	62	48	39	32	46	38	32	45	38	32	44	37	32	30
10	60	45	35	29	59	44	35	29	43	35	29	42	34	29	41	34	29	27

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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	13.9	15.6	14.3	15.9	16.2	16.7	18.3	17.0	18.7	19.0
	3H	15.5	17.0	15.9	17.4	17.7	18.8	20.3	19.2	20.6	21.0
	4H	16.1	17.5	16.5	17.9	18.2	19.2	20.6	19.6	21.0	21.4
	6H	16.5	17.8	16.9	18.2	18.6	19.5	20.8	19.9	21.2	21.6
	8H	16.6	17.9	17.0	18.2	18.6	19.6	20.9	20.0	21.2	21.6
	12H	16.7	17.9	17.1	18.3	18.7	19.6	20.8	20.1	21.2	21.7

UGR Viewed Endwise

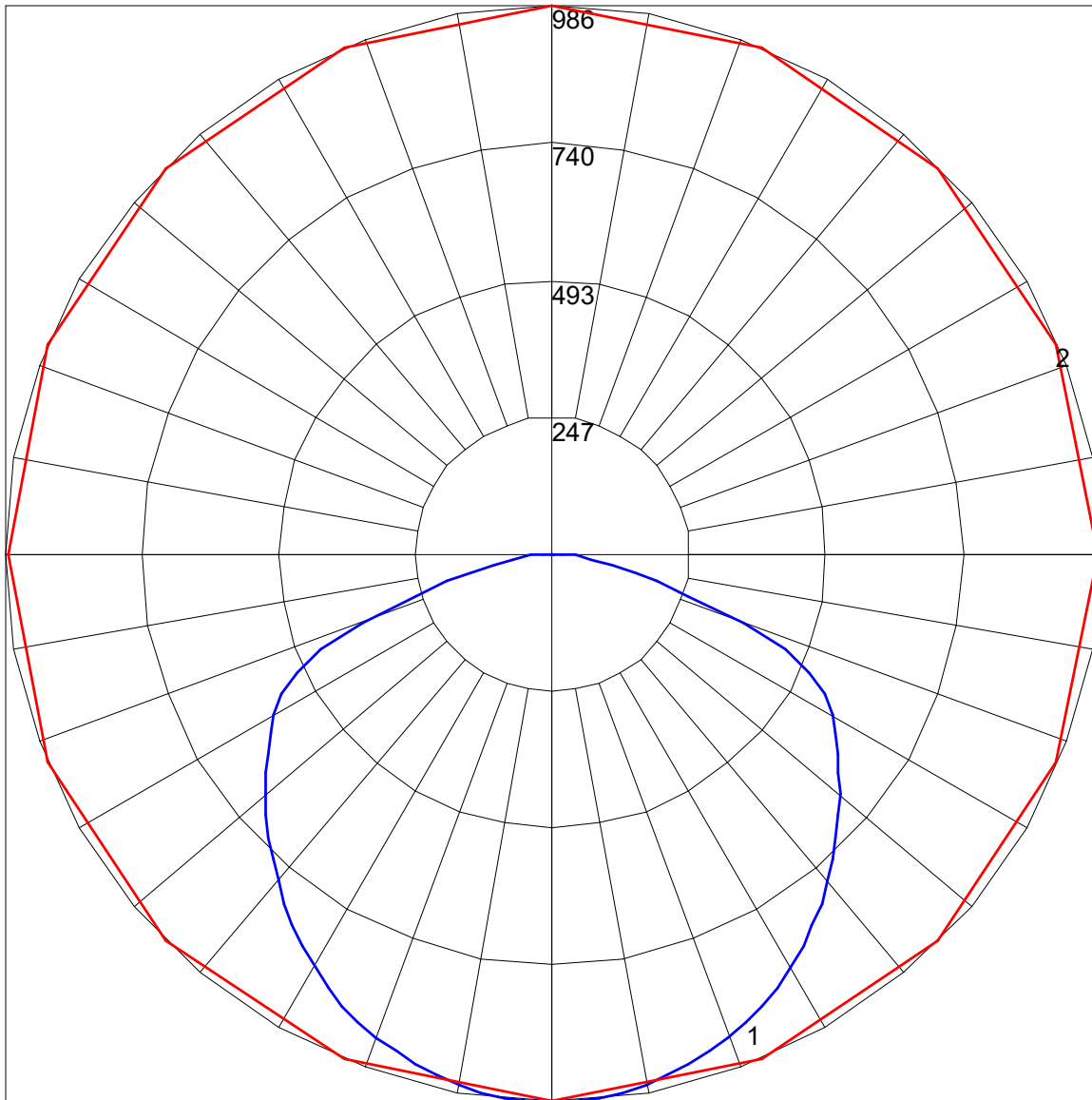
4H	2H	15.1	16.6	15.5	16.9	17.3	17.2	18.6	17.6	19.0	19.3
	3H	17.0	18.2	17.4	18.6	19.0	19.5	20.7	19.9	21.1	21.5
	4H	17.6	18.7	18.1	19.1	19.5	20.0	21.1	20.5	21.5	21.9
	6H	18.1	19.0	18.5	19.5	19.9	20.4	21.4	20.9	21.8	22.2
	8H	18.2	19.1	18.7	19.5	20.0	20.5	21.4	21.0	21.8	22.3
	12H	18.3	19.1	18.8	19.6	20.0	20.6	21.4	21.1	21.9	22.3

8H	4H	18.1	19.0	18.6	19.4	19.9	20.2	21.1	20.7	21.5	22.0
	6H	18.7	19.4	19.2	19.9	20.3	20.7	21.4	21.2	21.9	22.4
	8H	18.8	19.5	19.3	20.0	20.5	20.8	21.5	21.3	22.0	22.5
	12H	19.0	19.5	19.5	20.0	20.6	20.9	21.5	21.4	22.0	22.6

12H	4H	18.1	18.9	18.6	19.4	19.9	20.2	21.0	20.7	21.5	21.9
	6H	18.7	19.4	19.2	19.8	20.4	20.7	21.4	21.2	21.8	22.4
	8H	18.9	19.5	19.4	20.0	20.6	20.9	21.5	21.4	22.0	22.5

Maximum UGR = 22.6

POLAR GRAPH



Maximum Candela = 986.143 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.)