



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S22-L48-835-WPR-(L40)-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM 101511920CHI-008  
 [TESTLAB]Intertek  
 [ISSUE DATE] 10-30-2023  
 [MANUFACTURER]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-L48-835-WPR-(L40)-DIM-UNV  
 [LAMPCAT]HLM 80 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	3085
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	31.9
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	2554	2911	3291
55	2285	2935	3631
65	1928	3073	4070
75	1579	2448	2436
85	1192	1369	1431

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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	1047.416	1047.416	1047.416	1047.416	1047.416
2.5	1044.414	1044.518	1045.864	1047.934	1047.830
5.0	1039.549	1040.170	1042.654	1045.553	1045.346
7.5	1031.888	1032.924	1036.236	1040.377	1040.688
10.0	1021.743	1023.193	1027.540	1033.131	1033.855
12.5	1007.975	1011.184	1016.567	1024.331	1025.677
15.0	991.205	994.103	1003.420	1013.151	1015.946
17.5	972.054	976.402	987.996	1000.832	1004.663
20.0	950.107	955.801	970.190	986.547	991.930
22.5	926.401	933.130	951.039	970.708	977.954
25.0	899.900	907.975	929.817	954.041	961.909
27.5	872.053	881.163	906.422	934.890	944.828
30.0	841.308	853.316	882.198	913.772	926.505
32.5	808.699	821.639	856.215	891.826	906.629
35.0	773.813	789.030	828.264	868.741	885.821
37.5	737.167	754.869	798.761	844.724	864.082
40.0	699.278	719.154	768.326	819.672	842.136
42.5	659.837	682.508	737.374	794.310	819.672
45.0	619.154	644.413	705.696	768.326	797.622
47.5	577.849	605.489	673.398	742.550	775.883
50.0	535.509	566.048	641.100	716.877	754.454
52.5	492.652	527.021	608.905	691.825	733.957
55.0	449.277	488.097	577.125	667.083	713.875
57.5	405.592	448.967	545.137	642.549	693.585
60.0	362.527	409.008	512.735	617.187	670.603
62.5	320.291	370.498	479.816	585.820	636.545
65.0	279.297	332.817	445.136	542.549	589.650
67.5	240.788	295.239	407.559	483.025	508.284
70.0	204.866	258.179	358.387	388.097	377.538
72.5	171.429	220.601	295.550	274.949	270.084
75.0	140.063	182.402	217.185	208.386	216.150
77.5	110.663	142.444	149.172	161.595	166.874
80.0	83.541	100.829	108.386	116.357	120.808
82.5	57.661	63.044	71.325	75.984	78.468
85.0	35.611	37.267	40.890	42.547	42.754
87.5	18.634	17.805	17.805	17.805	17.495
90.0	2.899	2.795	2.381	2.277	2.174
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	382.30	N.A.	12.40
0-30	811.26	N.A.	26.30
0-40	1330.01	N.A.	43.10
0-60	2393.5	N.A.	77.60
0-80	3034.92	N.A.	98.40
0-90	3084.47	N.A.	100.00
10-90	2985.41	N.A.	96.80
20-40	947.70	N.A.	30.70
20-50	1493.43	N.A.	48.40
40-70	1490.74	N.A.	48.30
60-80	641.42	N.A.	20.80
70-80	214.17	N.A.	6.90
80-90	49.55	N.A.	1.60
90-110	0.34	N.A.	0.00
90-120	0.34	N.A.	0.00
90-130	0.34	N.A.	0.00
90-150	0.34	N.A.	0.00
90-180	0.34	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3084.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	99.06
10-20	283.25
20-30	428.96
30-40	518.74
40-50	545.73
50-60	517.77
60-70	427.25
70-80	214.17
80-90	49.55
90-100	0.34
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	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

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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

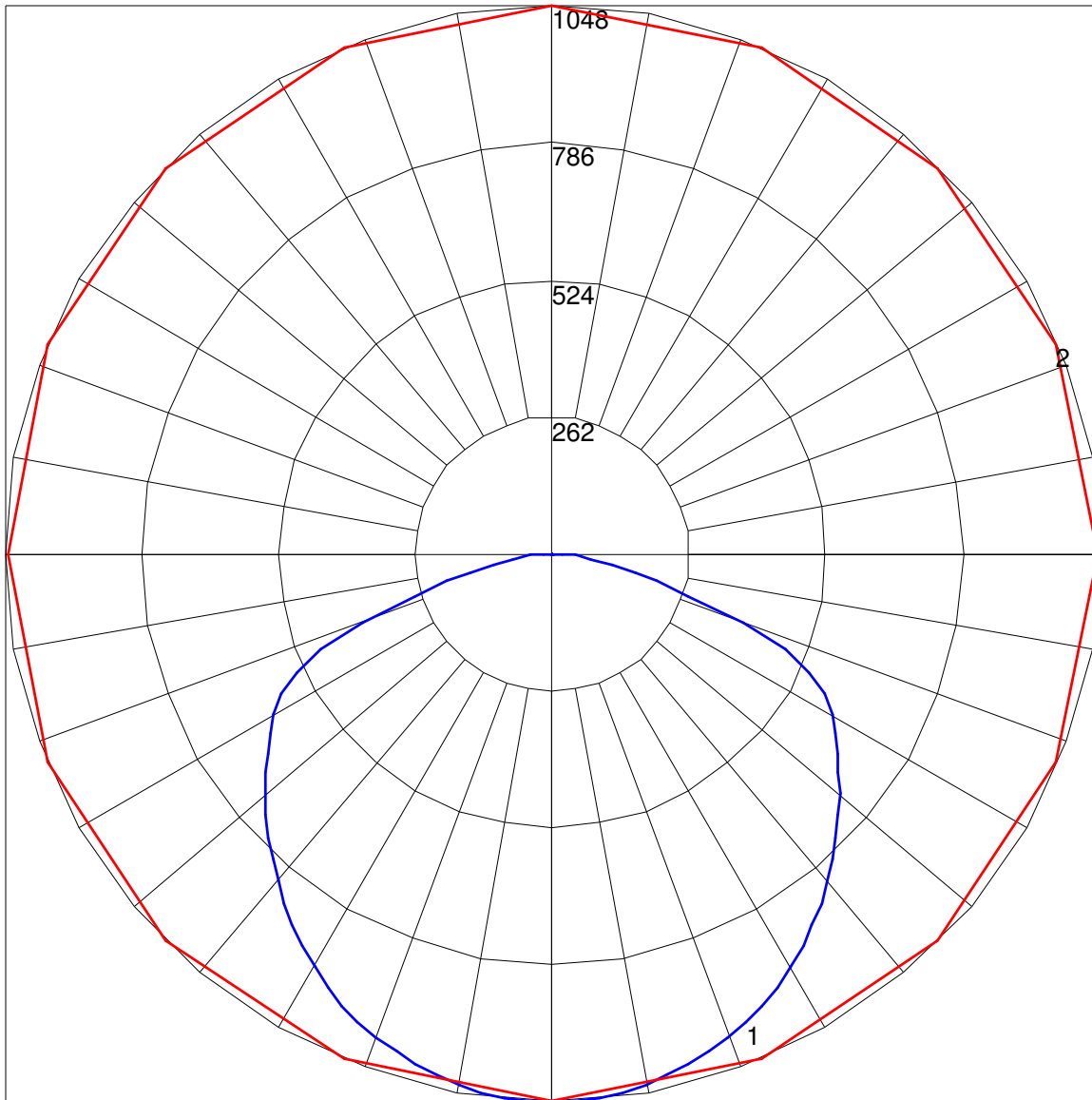
X=2H	Y=2H	14.6	16.3	15.0	16.6	16.9	17.4	19.1	17.7	19.4	19.7
	3H	16.2	17.7	16.6	18.1	18.4	19.5	21.0	19.9	21.3	21.7
	4H	16.8	18.2	17.2	18.6	18.9	19.9	21.4	20.3	21.7	22.1
	6H	17.2	18.5	17.6	18.9	19.3	20.2	21.5	20.6	21.9	22.3
	8H	17.3	18.6	17.7	18.9	19.3	20.3	21.6	20.7	21.9	22.3
	12H	17.4	18.6	17.8	19.0	19.4	20.3	21.5	20.8	21.9	22.4

### UGR Viewed Endwise

4H	2H	15.8	17.3	16.2	17.6	18.0	17.9	19.3	18.3	19.7	20.0
	3H	17.7	18.9	18.1	19.3	19.7	20.2	21.4	20.6	21.8	22.2
	4H	18.3	19.4	18.8	19.8	20.2	20.7	21.8	21.2	22.2	22.6
	6H	18.8	19.7	19.2	20.2	20.6	21.1	22.1	21.6	22.5	22.9
	8H	18.9	19.8	19.4	20.2	20.7	21.2	22.1	21.7	22.5	23.0
	12H	19.0	19.8	19.5	20.3	20.7	21.3	22.1	21.8	22.6	23.0
8H	4H	18.8	19.7	19.3	20.1	20.6	20.9	21.8	21.4	22.2	22.7
	6H	19.4	20.1	19.9	20.6	21.0	21.4	22.1	21.9	22.6	23.1
	8H	19.5	20.2	20.0	20.7	21.2	21.5	22.2	22.0	22.7	23.2
	12H	19.7	20.3	20.2	20.7	21.3	21.6	22.2	22.1	22.7	23.3
12H	4H	18.8	19.6	19.3	20.1	20.6	20.9	21.7	21.4	22.2	22.6
	6H	19.4	20.1	19.9	20.5	21.1	21.4	22.1	21.9	22.5	23.1
	8H	19.6	20.2	20.1	20.7	21.3	21.6	22.2	22.1	22.7	23.2

Maximum UGR = 23.3

POLAR GRAPH



Maximum Candela = 1047.934 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.)