



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S22-L24-940-WPR-(L20)-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM 101511920CHI-008  
 [TESTLAB]Intertek  
 [ISSUE DATE] 02-08-2022  
 [MANUFACT]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-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	1355
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	15.5
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	1122	1279	1445
55	1004	1289	1595
65	847	1349	1788
75	693	1075	1070
85	523	601	628

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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	460.016	460.016	460.016	460.016	460.016
2.5	458.697	458.743	459.334	460.243	460.198
5.0	456.561	456.833	457.924	459.198	459.107
7.5	453.196	453.651	455.106	456.924	457.061
10.0	448.741	449.377	451.287	453.742	454.060
12.5	442.694	444.103	446.467	449.877	450.468
15.0	435.328	436.601	440.693	444.967	446.195
17.5	426.917	428.827	433.919	439.557	441.239
20.0	417.279	419.779	426.099	433.282	435.647
22.5	406.867	409.822	417.688	426.326	429.509
25.0	395.228	398.774	408.368	419.006	422.462
27.5	382.998	386.999	398.092	410.595	414.960
30.0	369.495	374.769	387.454	401.320	406.913
32.5	355.173	360.857	376.042	391.682	398.183
35.0	339.852	346.535	363.766	381.543	389.045
37.5	323.757	331.532	350.809	370.995	379.497
40.0	307.117	315.846	337.442	359.993	369.859
42.5	289.795	299.751	323.848	348.854	359.993
45.0	271.927	283.020	309.936	337.442	350.309
47.5	253.786	265.925	295.750	326.121	340.761
50.0	235.191	248.603	281.565	314.846	331.350
52.5	216.368	231.463	267.426	303.843	322.348
55.0	197.319	214.368	253.468	292.977	313.527
57.5	178.132	197.182	239.419	282.202	304.616
60.0	159.219	179.633	225.189	271.063	294.523
62.5	140.669	162.720	210.731	257.287	279.565
65.0	122.665	146.170	195.500	238.283	258.969
67.5	105.752	129.666	178.996	212.140	223.234
70.0	89.975	113.390	157.400	170.449	165.811
72.5	75.290	96.886	129.803	120.755	118.618
75.0	61.514	80.110	95.386	91.521	94.931
77.5	48.602	62.560	65.515	70.971	73.290
80.0	36.690	44.283	47.602	51.103	53.058
82.5	25.324	27.688	31.325	33.371	34.463
85.0	15.640	16.367	17.959	18.686	18.777
87.5	8.184	7.820	7.820	7.820	7.684
90.0	1.273	1.228	1.046	1.000	0.955
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	167.90	N.A.	12.40
0-30	356.30	N.A.	26.30
0-40	584.13	N.A.	43.10
0-60	1051.2	N.A.	77.60
0-80	1332.91	N.A.	98.40
0-90	1354.67	N.A.	100.00
10-90	1311.17	N.A.	96.80
20-40	416.22	N.A.	30.70
20-50	655.90	N.A.	48.40
40-70	654.72	N.A.	48.30
60-80	281.71	N.A.	20.80
70-80	94.06	N.A.	6.90
80-90	21.76	N.A.	1.60
90-110	0.15	N.A.	0.00
90-120	0.15	N.A.	0.00
90-130	0.15	N.A.	0.00
90-150	0.15	N.A.	0.00
90-180	0.15	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1354.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	43.50
10-20	124.40
20-30	188.40
30-40	227.83
40-50	239.68
50-60	227.40
60-70	187.64
70-80	94.06
80-90	21.76
90-100	0.15
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	41	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

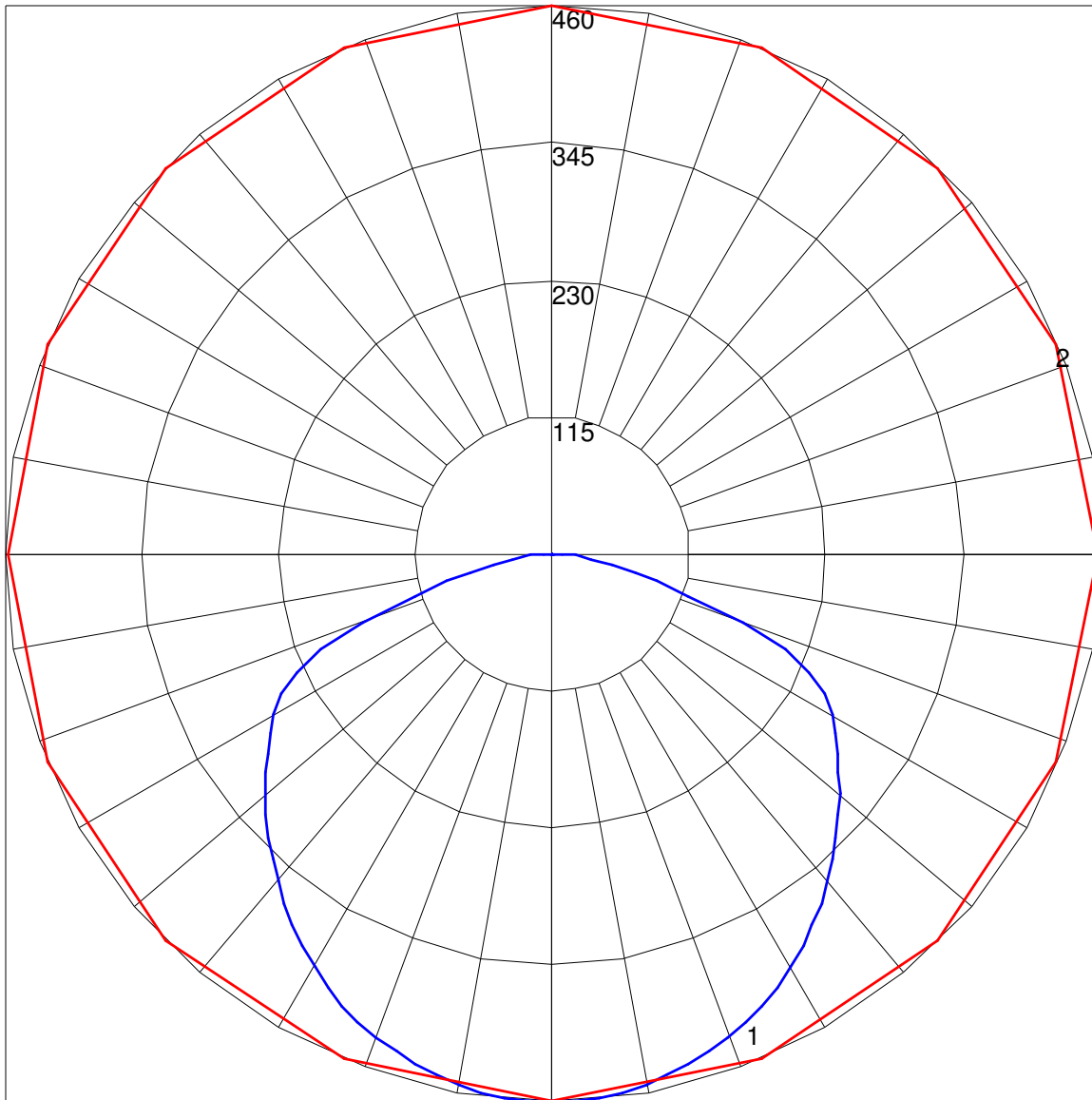
X=2H	Y=2H	11.8	13.5	12.2	13.8	14.1	14.6	16.3	14.9	16.6	16.9
	3H	13.4	14.9	13.8	15.3	15.6	16.7	18.2	17.1	18.5	18.9
	4H	14.0	15.4	14.4	15.8	16.1	17.1	18.6	17.5	18.9	19.3
	6H	14.4	15.7	14.8	16.1	16.5	17.4	18.7	17.8	19.1	19.5
	8H	14.5	15.8	14.9	16.1	16.5	17.5	18.8	17.9	19.1	19.5
	12H	14.6	15.8	15.0	16.2	16.6	17.5	18.7	18.0	19.1	19.6

### UGR Viewed Endwise

4H	2H	13.0	14.5	13.4	14.8	15.2	15.1	16.5	15.5	16.9	17.2
	3H	14.9	16.1	15.3	16.5	16.9	17.4	18.6	17.8	19.0	19.4
	4H	15.5	16.6	16.0	17.0	17.4	17.9	19.0	18.4	19.4	19.8
	6H	16.0	16.9	16.4	17.4	17.8	18.3	19.3	18.8	19.7	20.1
	8H	16.1	17.0	16.6	17.4	17.9	18.4	19.3	18.9	19.7	20.2
	12H	16.2	17.0	16.7	17.5	17.9	18.5	19.3	19.0	19.8	20.2
8H	4H	16.0	16.9	16.5	17.3	17.8	18.1	19.0	18.6	19.4	19.9
	6H	16.6	17.3	17.1	17.8	18.2	18.6	19.3	19.1	19.8	20.3
	8H	16.7	17.4	17.2	17.9	18.4	18.7	19.4	19.2	19.9	20.4
	12H	16.9	17.5	17.4	17.9	18.5	18.8	19.4	19.3	19.9	20.5
12H	4H	16.0	16.8	16.5	17.3	17.8	18.1	18.9	18.6	19.4	19.8
	6H	16.6	17.3	17.1	17.7	18.3	18.6	19.3	19.1	19.7	20.3
	8H	16.8	17.4	17.3	17.9	18.5	18.8	19.4	19.3	19.9	20.4

Maximum UGR = 20.5

POLAR GRAPH



Maximum Candela = 460.243 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.)