



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] 01-27-223
 [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	2710
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
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	2244	2557	2890
55	2007	2578	3189
65	1693	2699	3575
75	1387	2150	2140
85	1047	1202	1257

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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	920.032	920.032	920.032	920.032	920.032
2.5	917.395	917.486	918.668	920.486	920.395
5.0	913.121	913.667	915.849	918.395	918.213
7.5	906.392	907.302	910.211	913.849	914.121
10.0	897.481	898.754	902.573	907.483	908.120
12.5	885.387	888.206	892.935	899.754	900.936
15.0	870.657	873.203	881.386	889.934	892.389
17.5	853.835	857.654	867.838	879.113	882.478
20.0	834.557	839.559	852.198	866.565	871.293
22.5	813.734	819.645	835.376	852.652	859.018
25.0	790.456	797.549	816.735	838.013	844.923
27.5	765.996	773.998	796.185	821.191	829.920
30.0	738.990	749.538	774.907	802.641	813.825
32.5	710.347	721.713	752.084	783.364	796.367
35.0	679.703	693.070	727.533	763.086	778.090
37.5	647.514	663.063	701.617	741.990	758.994
40.0	614.233	631.692	674.884	719.985	739.717
42.5	579.589	599.503	647.696	697.707	719.985
45.0	543.854	566.040	619.871	674.884	700.617
47.5	507.572	531.851	591.501	652.242	681.522
50.0	470.382	497.206	563.131	629.692	662.699
52.5	432.737	462.926	534.851	607.687	644.695
55.0	394.637	428.736	506.936	585.954	627.055
57.5	356.265	394.364	478.838	564.404	609.232
60.0	318.438	359.265	450.377	542.126	589.046
62.5	281.338	325.439	421.461	514.574	559.130
65.0	245.330	292.341	391.000	476.565	517.938
67.5	211.504	259.333	357.992	424.280	446.467
70.0	179.951	226.780	314.800	340.897	331.622
72.5	150.580	193.772	259.606	241.511	237.237
75.0	123.029	160.219	190.772	183.042	189.862
77.5	97.204	125.120	131.030	141.942	146.579
80.0	73.381	88.566	95.204	102.206	106.116
82.5	50.648	55.376	62.651	66.743	68.925
85.0	31.280	32.735	35.917	37.372	37.554
87.5	16.367	15.640	15.640	15.640	15.367
90.0	2.546	2.455	2.091	2.000	1.910
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	335.81	N.A.	12.40
0-30	712.60	N.A.	26.30
0-40	1168.25	N.A.	43.10
0-60	2102.41	N.A.	77.60
0-80	2665.82	N.A.	98.40
0-90	2709.34	N.A.	100.00
10-90	2622.33	N.A.	96.80
20-40	832.44	N.A.	30.70
20-50	1311.8	N.A.	48.40
40-70	1309.44	N.A.	48.30
60-80	563.41	N.A.	20.80
70-80	188.12	N.A.	6.90
80-90	43.52	N.A.	1.60
90-110	0.30	N.A.	0.00
90-120	0.30	N.A.	0.00
90-130	0.30	N.A.	0.00
90-150	0.30	N.A.	0.00
90-180	0.30	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2709.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	87.01
10-20	248.80
20-30	376.79
30-40	455.65
40-50	479.36
50-60	454.80
60-70	375.29
70-80	188.12
80-90	43.52
90-100	0.30
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	14.2	15.9	14.6	16.2	16.5	17.0	18.6	17.3	19.0	19.3
	3H	15.8	17.3	16.2	17.7	18.0	19.1	20.6	19.5	20.9	21.3
	4H	16.4	17.8	16.8	18.2	18.5	19.5	20.9	19.9	21.3	21.7
	6H	16.8	18.1	17.2	18.5	18.9	19.8	21.1	20.2	21.5	21.9
	8H	16.9	18.2	17.3	18.5	18.9	19.9	21.2	20.3	21.5	21.9
	12H	17.0	18.2	17.4	18.6	19.0	19.9	21.1	20.4	21.5	22.0

UGR Viewed Endwise

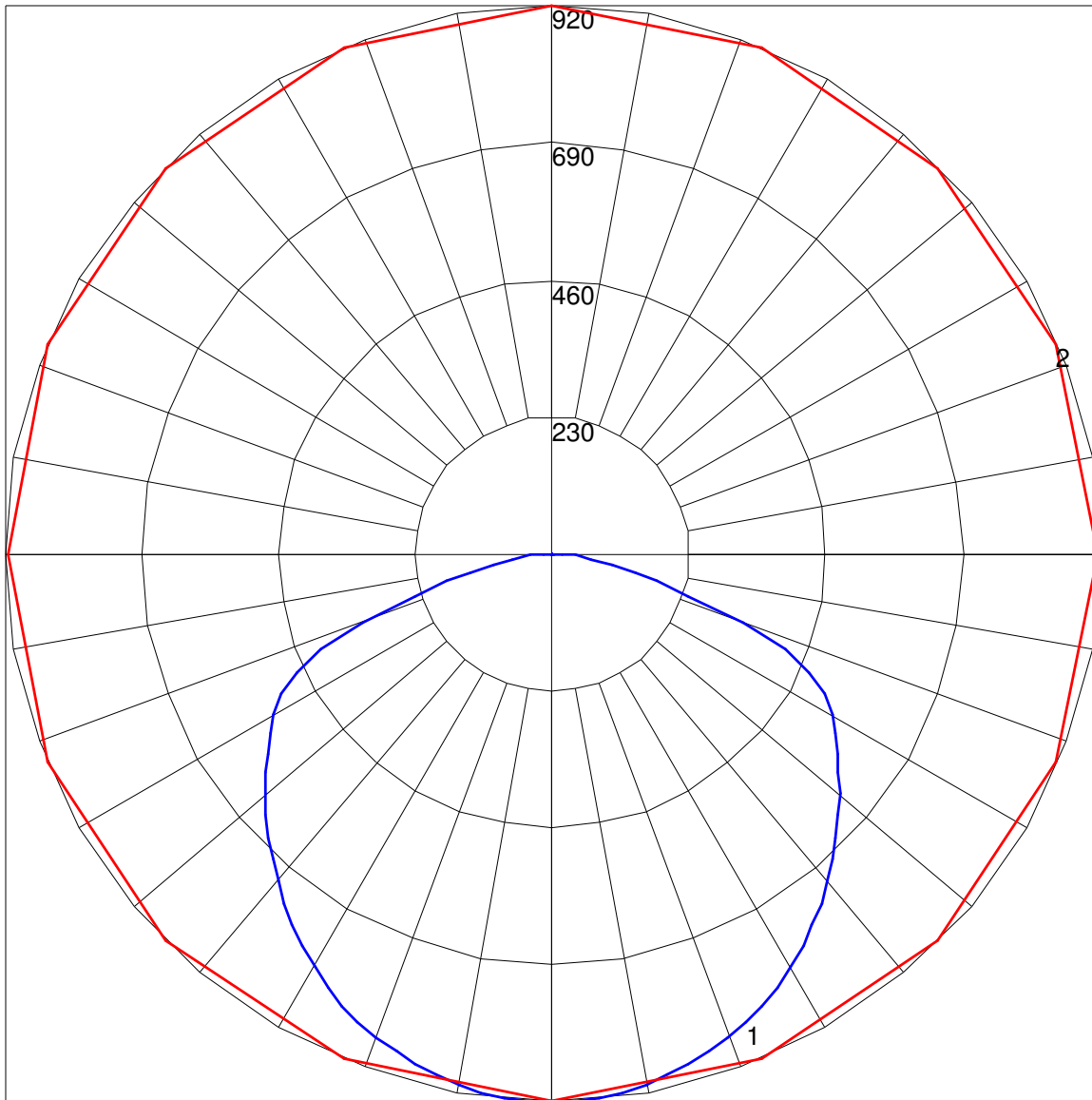
4H	2H	15.4	16.9	15.8	17.2	17.6	17.5	18.9	17.9	19.3	19.6
	3H	17.3	18.5	17.7	18.9	19.3	19.8	21.0	20.2	21.4	21.8
	4H	17.9	19.0	18.4	19.4	19.8	20.3	21.4	20.8	21.8	22.2
	6H	18.4	19.3	18.8	19.8	20.2	20.7	21.7	21.2	22.1	22.5
	8H	18.5	19.4	19.0	19.8	20.3	20.8	21.7	21.3	22.1	22.6
	12H	18.6	19.4	19.1	19.9	20.3	20.9	21.7	21.4	22.2	22.6

8H	4H	18.4	19.3	18.9	19.7	20.2	20.5	21.4	21.0	21.8	22.3
	6H	19.0	19.7	19.5	20.2	20.6	21.0	21.7	21.5	22.2	22.7
	8H	19.1	19.8	19.6	20.3	20.8	21.1	21.8	21.6	22.3	22.8
	12H	19.3	19.8	19.8	20.3	20.9	21.2	21.8	21.7	22.3	22.9

12H	4H	18.4	19.2	18.9	19.7	20.2	20.5	21.3	21.0	21.8	22.2
	6H	19.0	19.7	19.5	20.1	20.7	21.0	21.7	21.5	22.1	22.7
	8H	19.2	19.8	19.7	20.3	20.9	21.2	21.8	21.7	22.3	22.8

Maximum UGR = 22.9

POLAR GRAPH



Maximum Candela = 920.486 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.)