



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S22-L32-830-WPR-EM10W-DIM-UNV_(EMER MODE).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM 101511920CHI-008
 [TESTLAB]Intertek
 [ISSUE DATE] 06-29-2022
 [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-L32-830-WPR-EM10W-DIM-UNV
 [LAMPCAT] HLM 80 CRI, 3000K 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	980
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	10
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	811	925	1045
55	726	932	1153
65	612	976	1293
75	502	778	774
85	379	435	455

IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S22-L32-830-WPR-EM10W-DIM-UNV_(EMER MODE).IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	332.740	332.740	332.740	332.740	332.740
2.5	331.786	331.819	332.246	332.904	332.871
5.0	330.240	330.438	331.227	332.148	332.082
7.5	327.807	328.136	329.188	330.503	330.602
10.0	324.584	325.044	326.426	328.201	328.432
12.5	320.210	321.230	322.940	325.406	325.834
15.0	314.883	315.803	318.763	321.854	322.742
17.5	308.799	310.180	313.863	317.941	319.158
20.0	301.827	303.636	308.207	313.403	315.113
22.5	294.296	296.434	302.123	308.371	310.673
25.0	285.877	288.442	295.381	303.077	305.576
27.5	277.031	279.925	287.949	296.993	300.150
30.0	267.264	271.079	280.254	290.284	294.329
32.5	256.905	261.015	271.999	283.312	288.015
35.0	245.822	250.656	263.120	275.979	281.405
37.5	234.181	239.804	253.748	268.349	274.499
40.0	222.144	228.458	244.079	260.391	267.527
42.5	209.615	216.817	234.246	252.334	260.391
45.0	196.691	204.715	224.183	244.079	253.386
47.5	183.569	192.350	213.923	235.891	246.480
50.0	170.119	179.820	203.662	227.735	239.673
52.5	156.504	167.422	193.435	219.777	233.161
55.0	142.725	155.057	183.339	211.917	226.781
57.5	128.847	142.626	173.177	204.123	220.336
60.0	115.166	129.932	162.884	196.066	213.035
62.5	101.749	117.699	152.426	186.101	202.215
65.0	88.726	105.728	141.409	172.355	187.318
67.5	76.493	93.791	129.472	153.446	161.470
70.0	65.081	82.017	113.851	123.289	119.935
72.5	54.459	70.080	93.889	87.345	85.799
75.0	44.495	57.945	68.995	66.199	68.666
77.5	35.155	45.251	47.389	51.335	53.012
80.0	26.539	32.031	34.432	36.964	38.378
82.5	18.317	20.028	22.658	24.138	24.928
85.0	11.313	11.839	12.990	13.516	13.582
87.5	5.919	5.656	5.656	5.656	5.558
90.0	0.921	0.888	0.756	0.723	0.691
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : DIG-S22-L32-830-WPR-EM10W-DIM-UNV_(EMER MODE).IES****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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : DIG-S22-L32-830-WPR-EM10W-DIM-UNV_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	121.45	N.A.	12.40
0-30	257.72	N.A.	26.30
0-40	422.51	N.A.	43.10
0-60	760.36	N.A.	77.60
0-80	964.12	N.A.	98.40
0-90	979.86	N.A.	100.00
10-90	948.40	N.A.	96.80
20-40	301.06	N.A.	30.70
20-50	474.43	N.A.	48.40
40-70	473.57	N.A.	48.30
60-80	203.76	N.A.	20.80
70-80	68.04	N.A.	6.90
80-90	15.74	N.A.	1.60
90-110	0.11	N.A.	0.00
90-120	0.11	N.A.	0.00
90-130	0.11	N.A.	0.00
90-150	0.11	N.A.	0.00
90-180	0.11	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	979.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	31.47
10-20	89.98
20-30	136.27
30-40	164.79
40-50	173.36
50-60	164.48
60-70	135.73
70-80	68.04
80-90	15.74
90-100	0.11
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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S22-L32-830-WPR-EM10W-DIM-UNV_(EMER MODE).IES

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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S22-L32-830-WPR-EM10W-DIM-UNV_(EMER MODE).IES

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	10.6	12.3	11.0	12.6	12.9	13.4	15.1	13.7	15.4	15.7
	3H	12.2	13.7	12.6	14.1	14.4	15.5	17.0	15.9	17.3	17.7
	4H	12.8	14.2	13.2	14.6	14.9	15.9	17.4	16.3	17.7	18.1
	6H	13.2	14.5	13.6	14.9	15.3	16.2	17.5	16.6	17.9	18.3
	8H	13.3	14.6	13.7	14.9	15.3	16.3	17.6	16.7	17.9	18.3
	12H	13.4	14.6	13.8	15.0	15.4	16.3	17.5	16.8	17.9	18.4

UGR Viewed Endwise

4H	2H	11.8	13.3	12.2	13.6	14.0	13.9	15.3	14.3	15.7	16.0
	3H	13.7	14.9	14.1	15.3	15.7	16.2	17.4	16.6	17.8	18.2
	4H	14.3	15.4	14.8	15.8	16.2	16.7	17.8	17.2	18.2	18.6
	6H	14.8	15.7	15.2	16.2	16.6	17.1	18.1	17.6	18.5	18.9
	8H	14.9	15.8	15.4	16.2	16.7	17.2	18.1	17.7	18.5	19.0
	12H	15.0	15.8	15.5	16.3	16.7	17.3	18.1	17.8	18.6	19.0

8H	4H	14.8	15.7	15.3	16.1	16.6	16.9	17.8	17.4	18.2	18.7
	6H	15.4	16.1	15.9	16.6	17.0	17.4	18.1	17.9	18.6	19.1
	8H	15.5	16.2	16.0	16.7	17.2	17.5	18.2	18.0	18.7	19.2
	12H	15.7	16.3	16.2	16.7	17.3	17.6	18.2	18.1	18.7	19.3

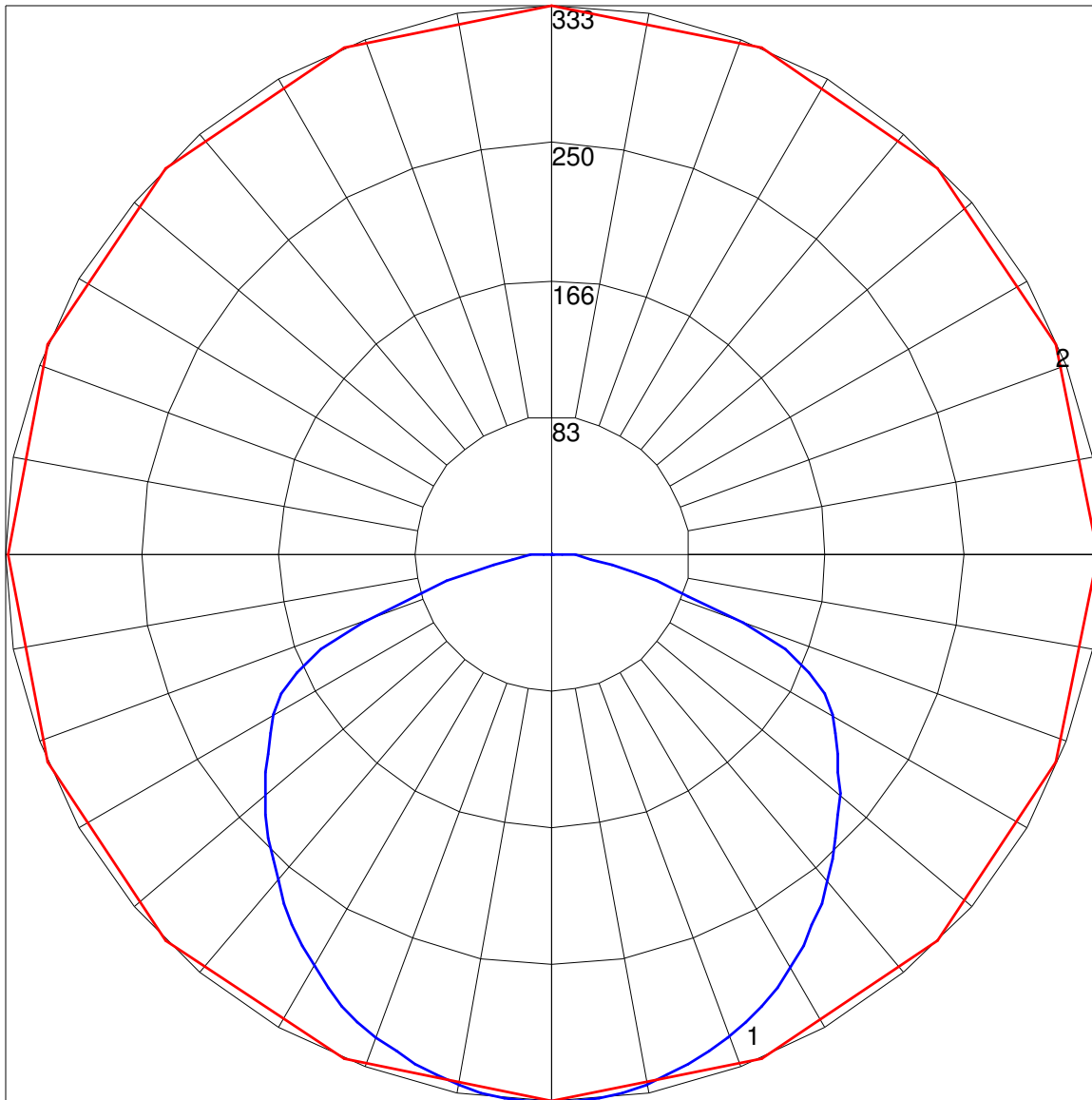
12H	4H	14.8	15.6	15.3	16.1	16.6	16.9	17.7	17.4	18.2	18.6
	6H	15.4	16.1	15.9	16.5	17.1	17.4	18.1	17.9	18.5	19.1
	8H	15.6	16.2	16.1	16.7	17.3	17.6	18.2	18.1	18.7	19.2

Maximum UGR = 19.3

IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S22-L32-830-WPR-EM10W-DIM-UNV_(EMER MODE).IES

POLAR GRAPH



Maximum Candela = 332.904 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.)