H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75-4-L50-940-R1172-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TESTLAB] Photopia 2020.0.0 see: www.ltioptics.com/ies
[ISSUEDATE] DECEMBER 2020
[TESTDATE] Tue Dec 08 08:49:30 2020
[TEST] 75 R1172 REFL
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] 75-4-L50-940-R1172-DIM-UNV
[LUMINAIRE] LED STRIP LUMINAIRE WITH WHITE REFL
[LAMP] LED 22.6W 22" 56 LED linear LED module 4000K
[LAMPCAT] HLM 90 CRI 4000K CCT
[OTHER]

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4562
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	35
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.72 ft
Luminous Width (90-270)	0.43 ft
Luminous Height	0.24 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9410	6979	6373
55	9182	6188	5654
65	9425	5240	4649
75	8704	3399	142
85	5611	125	59

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1457.56	1457.56	1457.56	1457.56	1457.56
5	1469.92	1465.97	1469.32	1473.58	1449.29
10	1491.59	1457.33	1456.53	1435.83	1422.00
15	1411.68	1406.04	1421.28	1432.26	1464.22
20	1415.31	1397.42	1392.61	1429.06	1432.48
25	1336.09	1346.46	1409.26	1455.30	1478.97
30	1289.86	1293.28	1399.33	1351.43	1322.01
35	1219.91	1243.22	1318.34	1194.72	1181.53
40	1135.32	1207.12	1184.27	1113.00	1131.12
45	1041.31	1142.41	1048.27	1062.19	1036.44
50	955.86	1058.78	948.92	971.14	974.50
55	845.70	919.03	853.28	870.43	861.25
60	751.95	797.22	747.07	746.64	755.18
65	666.71	657.34	636.20	620.85	638.62
70	553.88	514.20	505.75	503.65	501.30
75	411.03	386.09	344.10	105.96	16.84
80	266.23	236.47	48.17	14.21	12.28
85	125.01	48.17	9.71	6.97	5.61
90	16.19	3.55	1.93	1.26	0.88

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	543.63	N.A.	11.90
0-30	1185.93	N.A.	26.00
0-40	1965.57	N.A.	43.10
0-60	3577.35	N.A.	78.40
0-80	4512.95	N.A.	98.90
0-90	4561.51	N.A.	100.00
10-90	4422.13	N.A.	96.90
20-40	1421.94	N.A.	31.20
20-50	2251.32	N.A.	49.40
40-70	2245.17	N.A.	49.20
60-80	935.59	N.A.	20.50
70-80	302.21	N.A.	6.60
80-90	48.56	N.A.	1.10
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4561.51	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	139.38
10-20	404.26
20-30	642.30
30-40	779.64
40-50	829.37
50-60	782.41
60-70	633.39
70-80	302.21
80-90	48.56
90-100	0.00
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	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	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	41	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	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					UGR Viewed Endwise				
X=2H	Y=2H	18.6	20.3	19.0	20.6	20.9	19.4	21.0	19.7	21.4	21.7
	3H	20.3	21.8	20.7	22.1	22.5	21.3	22.9	21.7	23.2	23.5
	4H	20.9	22.3	21.3	22.7	23.1	21.4	22.8	21.8	23.1	23.5
	6H	21.3	22.6	21.7	23.0	23.4	21.3	22.6	21.7	23.0	23.4
	8H	21.4	22.7	21.9	23.1	23.5	21.3	22.5	21.7	22.9	23.3
	12H	21.5	22.7	21.9	23.1	23.5	21.3	22.5	21.7	22.8	23.3
4H	2H	19.3	20.7	19.7	21.0	21.4	19.9	21.3	20.3	21.6	22.0
	3H	21.1	22.3	21.5	22.7	23.1	21.9	23.1	22.4	23.5	23.9
	4H	21.8	22.9	22.3	23.3	23.8	22.0	23.1	22.4	23.5	23.9
	6H	22.3	23.3	22.8	23.7	24.2	22.0	22.9	22.4	23.3	23.8
	8H	22.5	23.3	22.9	23.8	24.3	21.9	22.8	22.4	23.2	23.7
	12H	22.5	23.3	23.0	23.8	24.3	21.9	22.7	22.4	23.1	23.6
8H	4H	22.0	22.9	22.5	23.3	23.8	22.1	23.0	22.6	23.4	23.9
	6H	22.5	23.3	23.0	23.8	24.2	22.1	22.8	22.6	23.3	23.8
	8H	22.7	23.4	23.2	23.9	24.3	22.0	22.7	22.6	23.2	23.7
	12H	22.8	23.4	23.3	23.9	24.4	22.0	22.6	22.5	23.1	23.6
12H	4H	22.0	22.8	22.5	23.2	23.7	22.1	22.9	22.6	23.4	23.9
	6H	22.5	23.2	23.1	23.6	24.2	22.1	22.7	22.6	23.2	23.7
	8H	22.7	23.3	23.2	23.8	24.3	22.1	22.6	22.6	23.1	23.7

Maximum UGR = 24.4

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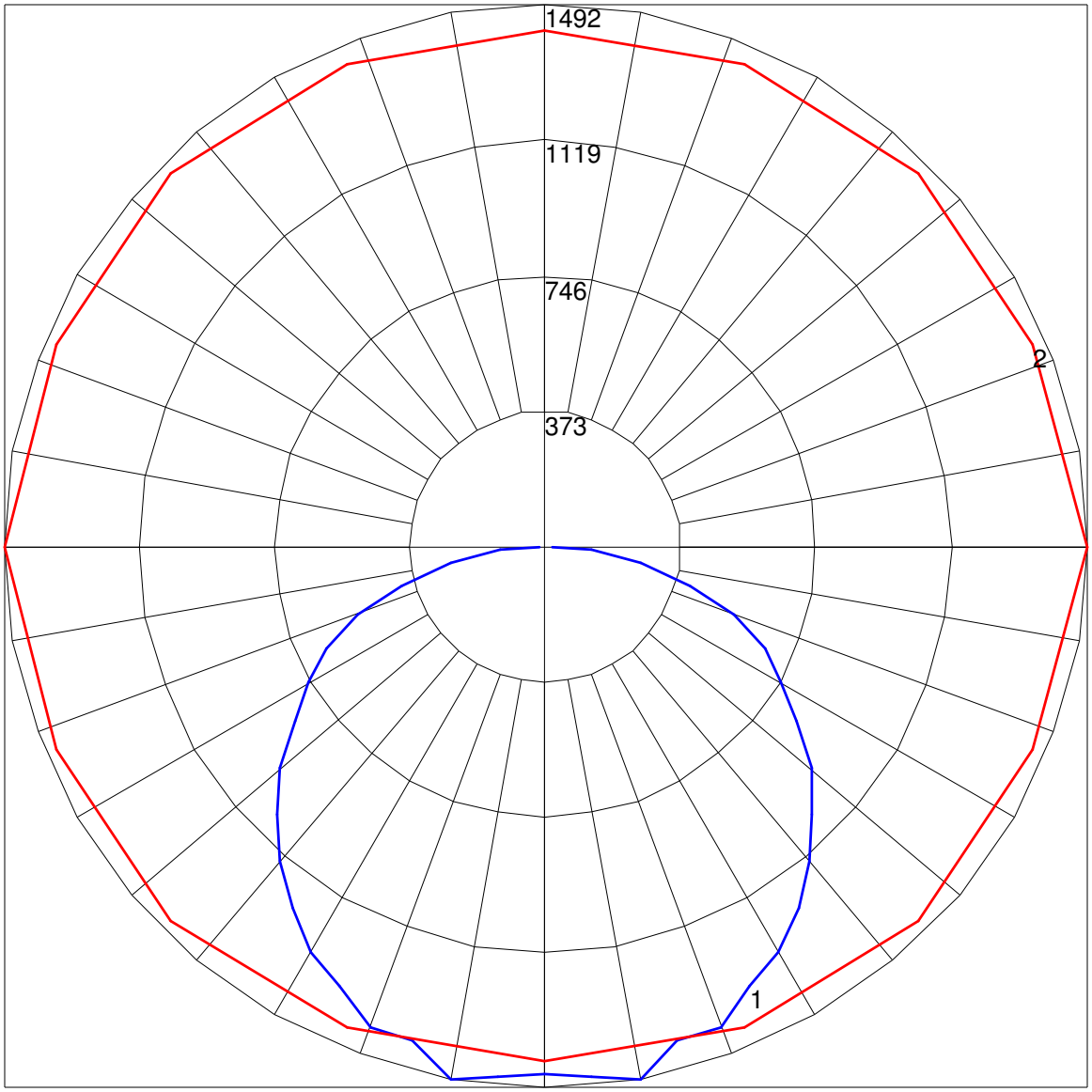
POLAR GRAPH



Maximum Candela = 1491.59 Located At Horizontal Angle = 0, Vertical Angle = 10
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)

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