H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75S-2-L42-850-EM-10WRM-DIM-UNV_EM MODE ONLY.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 19745.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 05-11-2023
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 22 INCH LED STRIP LUMINAIRE
[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS
[LUMCAT] 75S-2-L42-850-EM-10WRM-DIM-UNV EM MODE ONLY
[LAMPCAT] HLMX 80 CRI 5000K CCT
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Indoor, Commercial, Industrial, Manufacturing, Utility, Warehouse, Linear
[_SEARCH_MOUNTING] Surface, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1392
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.88 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.08 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9709	7908	7565
55	8161	6606	6779
65	6319	5618	6158
75	4228	4561	5464
85	1694	3821	4789

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	469.670	469.670	469.670	469.670	469.670
5	473.710	467.756	467.544	466.481	460.953
10	465.630	460.315	460.740	459.464	454.361
15	452.661	447.558	448.833	447.558	443.305
20	430.974	427.147	430.974	429.060	424.595
25	404.184	402.696	406.098	405.885	399.294
30	374.630	375.268	379.095	379.095	371.016
35	338.485	343.588	345.502	346.140	337.848
40	299.151	306.806	305.105	308.507	304.254
45	260.668	267.472	267.046	273.212	272.149
50	221.334	227.500	232.390	242.808	244.934
55	180.937	188.591	199.434	214.955	221.972
60	142.878	152.233	170.731	189.867	199.009
65	106.308	121.191	144.367	166.266	175.621
70	72.927	92.488	117.364	141.177	152.233
75	46.350	65.061	93.126	116.939	127.995
80	25.301	43.374	73.140	94.827	105.033
85	8.079	26.577	55.493	74.841	84.409
90	0.000	17.222	42.311	60.383	66.974
95	0.000	15.734	39.547	55.280	59.107
100	0.000	14.883	36.783	50.390	53.792
105	0.000	13.607	34.444	46.563	49.965
110	0.000	12.757	32.105	43.586	46.988
115	0.000	11.694	29.341	40.822	44.012
120	0.000	9.993	26.364	36.995	40.822
125	0.000	8.292	23.813	33.806	37.208
130	0.000	6.804	20.624	30.192	32.530
135	0.000	6.166	16.584	26.152	28.491
140	0.000	5.103	12.970	21.899	24.238
145	0.000	4.040	9.993	17.009	19.348
150	0.000	2.977	7.654	12.970	14.883
155	0.000	2.339	6.166	9.355	10.843
160	0.000	0.000	4.465	6.804	7.654
165	0.000	0.000	2.977	4.890	5.315
170	0.000	0.000	0.000	2.977	3.189
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	170.50	N.A.	12.20
0-30	356.65	N.A.	25.60
0-40	570.92	N.A.	41.00
0-60	959.34	N.A.	68.90
0-80	1198.02	N.A.	86.10
0-90	1255.01	N.A.	90.20
10-90	1210.63	N.A.	87.00
20-40	400.42	N.A.	28.80
20-50	608.25	N.A.	43.70
40-70	530.40	N.A.	38.10
60-80	238.68	N.A.	17.10
70-80	96.70	N.A.	6.90
80-90	56.99	N.A.	4.10
90-110	70.13	N.A.	5.00
90-120	95.80	N.A.	6.90
90-130	114.71	N.A.	8.20
90-150	133.48	N.A.	9.60
90-180	137.00	N.A.	9.80
110-180	66.87	N.A.	4.80
0-180	1392.01	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	44.38
10-20	126.12
20-30	186.15
30-40	214.27
40-50	207.83
50-60	180.60
60-70	141.97
70-80	96.70
80-90	56.99
90-100	38.37
100-110	31.76
110-120	25.67
120-130	18.91
130-140	12.26
140-150	6.51
150-160	2.72
160-170	0.75
170-180	0.04

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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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	106	101	96	92	102	97	93	89	91	88	85	86	83	81	81	78	76	74
2	96	88	81	75	92	85	78	73	80	74	70	75	71	67	71	67	64	61
3	88	77	69	62	84	75	67	61	70	64	59	66	61	56	62	58	54	52
4	80	68	60	53	77	66	58	52	63	56	50	59	53	48	56	51	47	44
5	74	61	52	46	71	59	51	45	56	49	44	53	47	42	50	45	41	39
6	68	55	46	40	66	54	45	39	51	44	38	48	42	37	46	40	36	34
7	63	50	41	35	61	49	41	35	46	39	34	44	38	33	42	36	32	30
8	59	46	37	32	57	45	37	31	43	35	30	41	34	30	39	33	29	27
9	55	42	34	28	53	41	33	28	39	32	27	37	31	27	36	30	26	24
10	52	39	31	26	50	38	31	26	36	30	25	35	29	24	33	28	24	22

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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	16.5	17.9	17.0	18.5	19.0	18.7	20.1	19.2	20.6	21.2
	3H	17.7	19.0	18.2	19.5	20.1	21.1	22.4	21.6	22.9	23.5
	4H	18.0	19.2	18.6	19.8	20.4	22.2	23.4	22.7	23.9	24.6
	6H	18.2	19.3	18.7	19.9	20.5	23.3	24.4	23.9	25.0	25.6
	8H	18.2	19.3	18.8	19.9	20.5	23.8	24.9	24.4	25.5	26.1
	12H	18.2	19.2	18.8	19.8	20.5	24.4	25.5	25.0	26.0	26.7
4H	2H	17.3	18.6	17.9	19.1	19.7	19.1	20.3	19.6	20.8	21.4
	3H	18.8	19.8	19.3	20.4	21.0	21.7	22.7	22.2	23.3	23.9
	4H	19.2	20.1	19.8	20.7	21.4	22.9	23.9	23.5	24.4	25.1
	6H	19.5	20.3	20.1	20.9	21.6	24.2	25.0	24.8	25.6	26.3
	8H	19.5	20.3	20.1	20.9	21.6	24.8	25.6	25.5	26.2	26.9
	12H	19.5	20.2	20.2	20.9	21.6	25.5	26.2	26.2	26.9	27.6
8H	4H	19.8	20.6	20.4	21.2	21.9	23.1	23.8	23.7	24.5	25.1
	6H	20.3	20.9	20.9	21.6	22.3	24.5	25.2	25.2	25.8	26.5
	8H	20.4	21.0	21.0	21.6	22.3	25.3	25.9	25.9	26.5	27.2
	12H	20.4	21.0	21.1	21.6	22.4	26.1	26.7	26.8	27.3	28.1
12H	4H	20.0	20.7	20.6	21.3	22.0	23.1	23.8	23.7	24.4	25.1
	6H	20.5	21.1	21.2	21.7	22.5	24.5	25.1	25.2	25.7	26.5
	8H	20.7	21.3	21.4	21.9	22.7	25.3	25.9	26.0	26.5	27.3

Maximum UGR = 28.1

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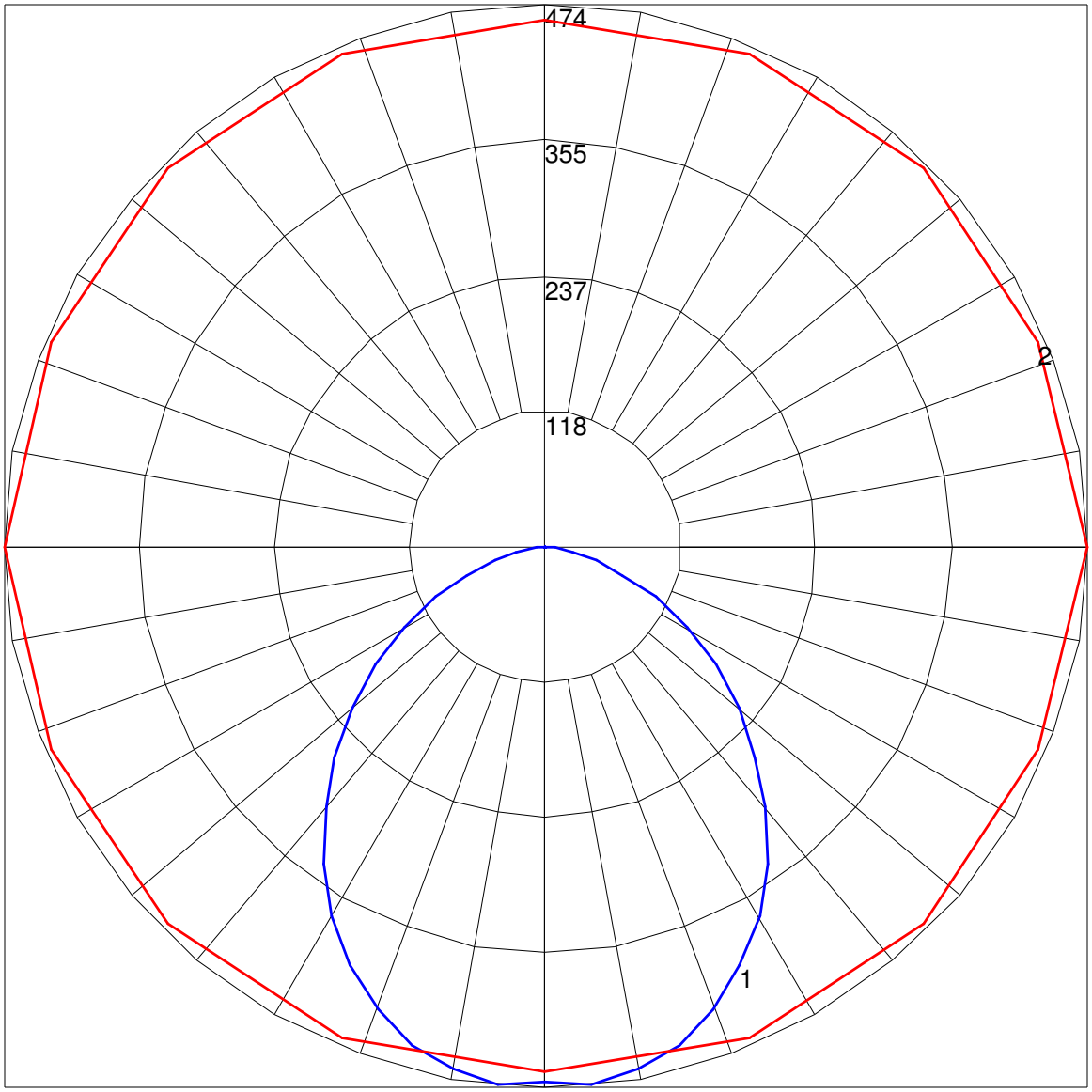
POLAR GRAPH



Maximum Candela = 473.71 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

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