H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75S-4-L85-835-(L77)-WG-75-DIM-UNV_.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] 11-29-2023
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 4' LED STRIP LUMINAIRE
[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS
[LUMCAT] 75S-4-L85-835-(L77)-WG-75-DIM-UNV
[LAMPCAT] HLM 80 CRI 3500K 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	7717
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	54.4
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)	3.72 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	27791	22425	21203
55	23562	18799	18999
65	18502	16064	17259
75	12741	13131	15312
85	5692	11139	13422

Photometric Toolbox (R) Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75S-4-L85-835-(L77)-WG-75-DIM-UNV_.IES

CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2603.839	2603.839	2603.839	2603.839	2603.839
5	2626.235	2593.230	2592.051	2586.158	2555.510
10	2581.443	2551.974	2554.332	2547.259	2518.969
15	2509.540	2481.250	2488.322	2481.250	2457.675
20	2389.308	2368.091	2389.308	2378.699	2353.946
25	2240.787	2232.535	2251.395	2250.217	2213.676
30	2076.942	2080.478	2101.695	2101.695	2056.903
35	1876.556	1904.845	1915.454	1918.990	1873.019
40	1658.489	1700.923	1691.493	1710.353	1686.778
45	1445.136	1482.856	1480.499	1514.682	1508.788
50	1227.069	1261.253	1288.364	1346.122	1357.910
55	1003.109	1045.543	1105.659	1191.707	1230.606
60	792.114	843.979	946.529	1052.616	1103.302
65	589.370	671.882	800.365	921.775	973.640
70	404.308	512.752	650.665	782.684	843.979
75	256.966	360.695	516.289	648.308	709.602
80	140.270	240.463	405.487	525.718	582.298
85	44.792	147.343	307.651	414.917	467.960
90	0.000	95.478	234.569	334.762	371.303
95	0.000	87.227	219.246	306.473	327.690
100	0.000	82.512	203.922	279.362	298.221
105	0.000	75.439	190.956	258.144	277.004
110	0.000	70.724	177.990	241.642	260.502
115	0.000	64.831	162.666	226.318	243.999
120	0.000	55.401	146.164	205.101	226.318
125	0.000	45.971	132.019	187.420	206.280
130	0.000	37.720	114.338	167.381	180.347
135	0.000	34.183	91.942	144.985	157.951
140	0.000	28.290	71.903	121.410	134.376
145	0.000	22.396	55.401	94.299	107.265
150	0.000	16.502	42.435	71.903	82.512
155	0.000	12.966	34.183	51.865	60.116
160	0.000	0.000	24.754	37.720	42.435
165	0.000	0.000	16.502	27.111	29.469
170	0.000	0.000	0.000	16.502	17.681
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

Photometric Toolbox (R) Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75S-4-L85-835-(L77)-WG-75-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	945.25	N.A.	12.20
0-30	1977.23	N.A.	25.60
0-40	3165.16	N.A.	41.00
0-60	5318.58	N.A.	68.90
0-80	6641.8	N.A.	86.10
0-90	6957.75	N.A.	90.20
10-90	6711.73	N.A.	87.00
20-40	2219.91	N.A.	28.80
20-50	3372.11	N.A.	43.70
40-70	2940.52	N.A.	38.10
60-80	1323.21	N.A.	17.10
70-80	536.11	N.A.	6.90
80-90	315.96	N.A.	4.10
90-110	388.78	N.A.	5.00
90-120	531.10	N.A.	6.90
90-130	635.95	N.A.	8.20
90-150	740.01	N.A.	9.60
90-180	759.51	N.A.	9.80
110-180	370.73	N.A.	4.80
0-180	7717.26	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	246.03
10-20	699.22
20-30	1031.98
30-40	1187.93
40-50	1152.2
50-60	1001.22
60-70	787.10
70-80	536.11
80-90	315.96
90-100	212.72
100-110	176.06
110-120	142.32
120-130	104.85
130-140	67.95
140-150	36.11
150-160	15.11
160-170	4.17
170-180	0.23

Photometric Toolbox (R) Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75S-4-L85-835-(L77)-WG-75-DIM-UNV_.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	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

Photometric Toolbox (R) Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75S-4-L85-835-(L77)-WG-75-DIM-UNV_.IES

UGR TABLE - CORRECTED

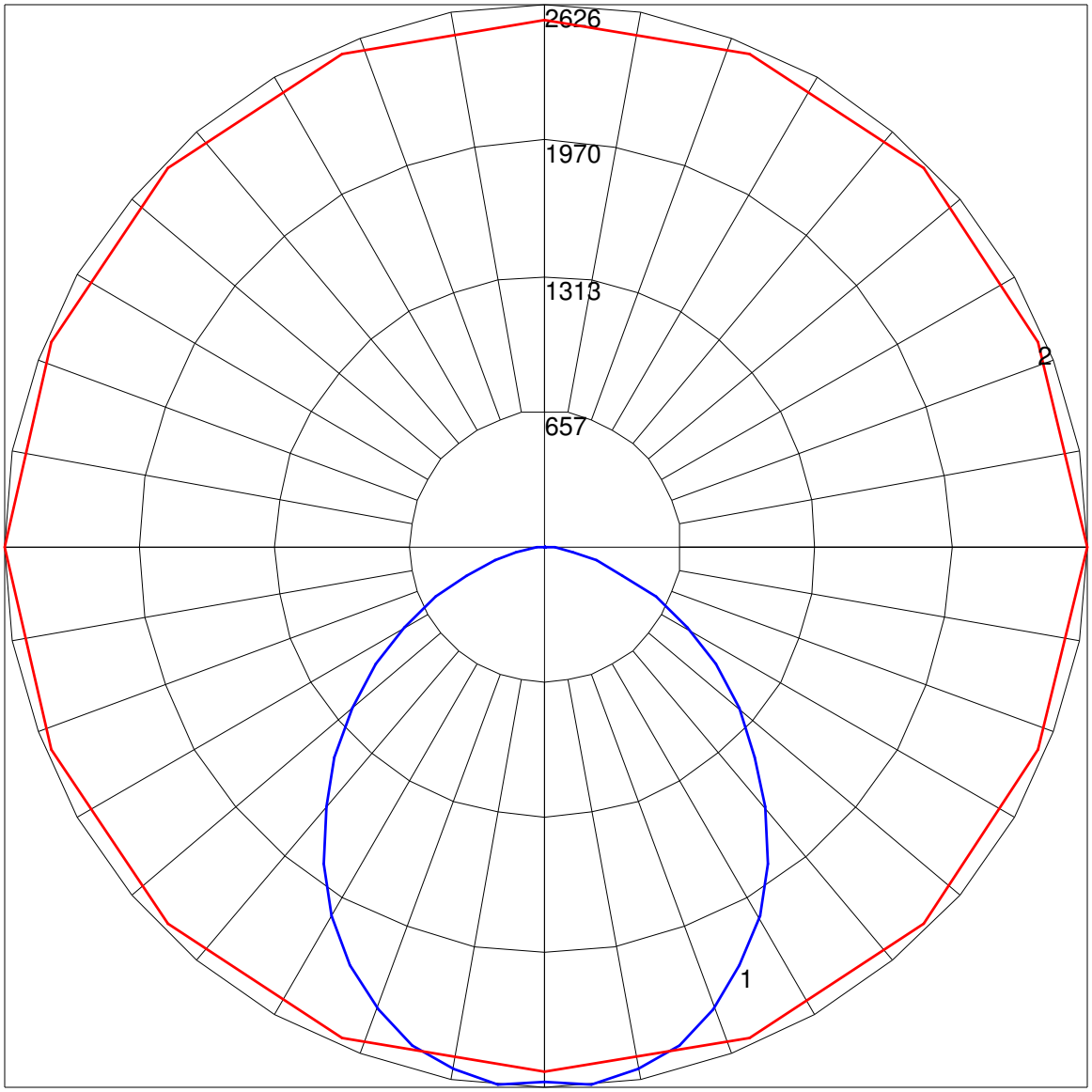
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	20.2	21.6	20.7	22.1	22.7	22.4	23.9	23.0	24.4	24.9
	3H	21.4	22.6	21.9	23.2	23.7	24.8	26.1	25.4	26.6	27.2
	4H	21.7	22.9	22.2	23.4	24.0	26.0	27.2	26.5	27.7	28.3
	6H	21.8	23.0	22.4	23.5	24.1	27.1	28.2	27.7	28.8	29.4
	8H	21.8	22.9	22.4	23.5	24.1	27.7	28.8	28.3	29.3	30.0
	12H	21.8	22.9	22.4	23.4	24.1	28.3	29.3	28.9	29.9	30.6
4H	2H	21.0	22.2	21.5	22.7	23.4	22.8	24.0	23.3	24.5	25.2
	3H	22.4	23.4	23.0	24.0	24.7	25.4	26.4	26.0	27.0	27.6
	4H	22.9	23.8	23.4	24.4	25.0	26.7	27.6	27.3	28.2	28.9
	6H	23.1	23.9	23.7	24.6	25.2	28.0	28.8	28.6	29.4	30.1
	8H	23.2	23.9	23.8	24.6	25.2	28.7	29.5	29.3	30.1	30.8
	12H	23.2	23.9	23.8	24.5	25.2	29.4	30.1	30.0	30.8	31.5
8H	4H	23.5	24.3	24.1	24.9	25.6	26.8	27.6	27.4	28.2	28.9
	6H	23.9	24.6	24.6	25.2	25.9	28.3	29.0	29.0	29.6	30.3
	8H	24.1	24.6	24.7	25.3	26.0	29.1	29.7	29.8	30.4	31.1
	12H	24.1	24.6	24.8	25.3	26.1	30.0	30.5	30.7	31.2	32.0
12H	4H	23.7	24.4	24.3	25.0	25.7	26.8	27.5	27.4	28.2	28.9
	6H	24.2	24.8	24.9	25.4	26.2	28.3	28.9	29.0	29.5	30.3
	8H	24.4	24.9	25.1	25.6	26.4	29.2	29.7	29.8	30.4	31.1

Maximum UGR = 32.0

Photometric Toolbox (R) Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75S-4-L85-835-(L77)-WG-75-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 2626.235 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.)

Photometric Toolbox (R) Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.