



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LL6G-4-L34-840-SWF-AF125-(L18)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 17249.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 01-18-2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER]H.E. WILLIAMS INC. - CARTHAGE, MO. 64836
 [LUMINAIRE] 4' LED TROFFER
 [MORE] WITH FROSTED ACRYLIC LENS
 [LUMCAT] LL6G-4-L34-840-SWF-AF125-(L18)-DIM-UNV
 [LAMPCAT] HLM 80 CRI, 4000K CCT
 [_SEARCH_SOURCETYPE]LED
 [_SEARCH_APPLICATION]INDOOR,OFFICE,CLASSROOM,ARCHITECTURAL,DIRECT,LINEAR
 [_SEARCH_MOUNTING]RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1902
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	17.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.12
Spacing Criterion (90-270)	1.04
Spacing Criterion (Diagonal)	1.18
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.84 ft
Luminous Width (90-270)	0.34 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5453	4907	4448
55	4589	4054	3633
65	3872	3415	3062
75	3136	2729	2475
85	2617	2265	2114

IES INDOOR REPORT**PHOTOMETRIC FILENAME : LL6G-4-L34-840-SWF-AF125-(L18)-DIM-UNV_.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	926.726	926.726	926.726	926.726	926.726
5	921.332	920.792	919.174	918.095	918.095
10	897.058	894.361	889.506	886.269	883.572
15	858.219	854.443	845.273	838.800	834.485
20	819.920	813.447	797.804	782.161	775.149
25	743.862	735.771	716.891	696.393	688.841
30	683.447	672.119	645.148	619.256	609.007
35	614.940	600.915	572.326	544.816	531.869
40	536.724	522.699	493.031	462.824	452.575
45	474.151	458.508	426.682	397.554	386.765
50	394.856	381.371	351.703	326.350	316.101
55	323.653	311.786	285.893	264.856	256.225
60	257.304	247.055	227.096	209.295	203.362
65	201.204	194.731	177.470	163.445	159.129
70	147.801	141.868	128.922	120.291	116.515
75	99.793	95.478	86.847	81.992	78.756
80	59.876	57.718	52.863	49.087	48.009
85	28.050	26.432	24.274	23.735	22.656
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : LL6G-4-L34-840-SWF-AF125-(L18)-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	325.29	N.A.	17.10
0-30	656.45	N.A.	34.50
0-40	1013.78	N.A.	53.30
0-60	1601.4	N.A.	84.20
0-80	1874.11	N.A.	98.50
0-90	1902.23	N.A.	100.00
10-90	1815.43	N.A.	95.40
20-40	688.49	N.A.	36.20
20-50	1017.15	N.A.	53.50
40-70	765.10	N.A.	40.20
60-80	272.71	N.A.	14.30
70-80	95.24	N.A.	5.00
80-90	28.12	N.A.	1.50
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	1902.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	86.80
10-20	238.48
20-30	331.17
30-40	357.32
40-50	328.66
50-60	258.96
60-70	177.47
70-80	95.24
80-90	28.12
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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : LL6G-4-L34-840-SWF-AF125-(L18)-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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	78	72	67	76	71	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	59	68	62	58	66	61	57	55
5	79	67	59	52	77	66	58	52	64	57	51	62	56	51	60	55	50	48
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

IES INDOOR REPORT

PHOTOMETRIC FILENAME : LL6G-4-L34-840-SWF-AF125-(L18)-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

X=2H	Y=2H	16.9	18.4	17.3	18.8	19.1	15.7	17.2	16.0	17.5	17.8
	3H	18.5	19.9	18.8	20.2	20.5	17.2	18.6	17.6	18.9	19.2
	4H	19.0	20.3	19.4	20.7	21.1	17.7	19.0	18.1	19.4	19.7
	6H	19.5	20.6	19.9	21.0	21.4	18.1	19.3	18.5	19.7	20.1
	8H	19.6	20.7	20.0	21.1	21.5	18.3	19.4	18.7	19.8	20.2
	12H	19.7	20.8	20.1	21.2	21.6	18.3	19.4	18.8	19.8	20.3

UGR Viewed Endwise

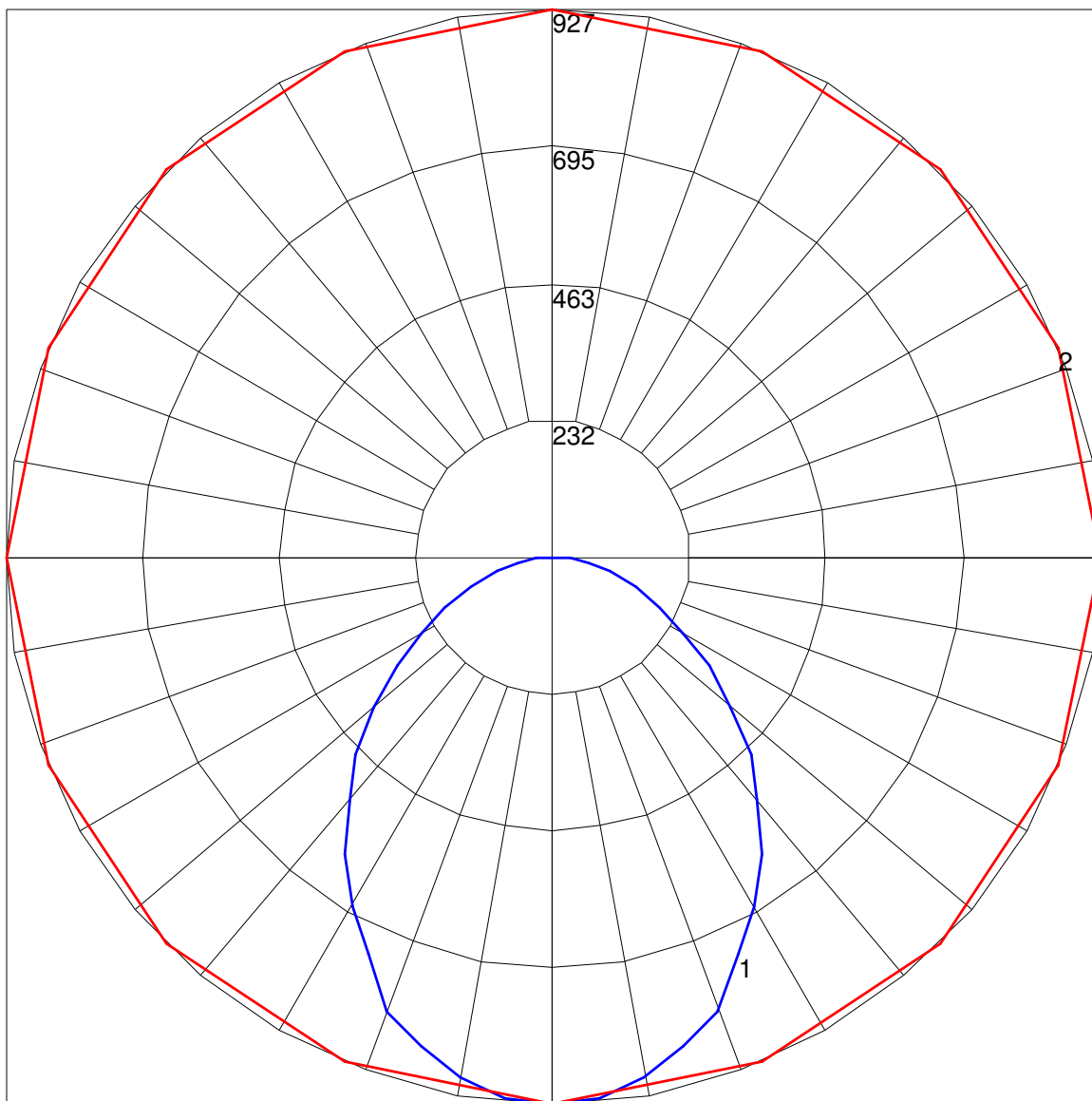
4H	2H	17.3	18.6	17.7	19.0	19.3	16.3	17.6	16.7	18.0	18.4
	3H	19.1	20.2	19.5	20.6	21.0	18.0	19.1	18.4	19.5	19.9
	4H	19.8	20.8	20.2	21.2	21.6	18.7	19.6	19.1	20.1	20.5
	6H	20.3	21.2	20.8	21.6	22.1	19.2	20.0	19.6	20.5	20.9
	8H	20.5	21.3	21.0	21.8	22.2	19.4	20.2	19.8	20.6	21.1
	12H	20.7	21.4	21.2	21.9	22.4	19.5	20.2	20.0	20.7	21.2

8H	4H	20.0	20.8	20.5	21.2	21.7	19.0	19.8	19.4	20.2	20.7
	6H	20.6	21.3	21.1	21.8	22.3	19.6	20.3	20.1	20.8	21.2
	8H	20.9	21.5	21.4	22.0	22.5	19.9	20.5	20.4	21.0	21.5
	12H	21.2	21.7	21.7	22.2	22.7	20.1	20.6	20.6	21.1	21.7

12H	4H	20.0	20.7	20.5	21.2	21.7	19.0	19.7	19.5	20.2	20.7
	6H	20.7	21.3	21.2	21.7	22.3	19.7	20.3	20.2	20.7	21.3
	8H	21.0	21.5	21.5	22.0	22.6	20.0	20.5	20.5	21.0	21.6

Maximum UGR = 22.7

POLAR GRAPH



Maximum Candela = 926.726 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)