



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-4-L32-930-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 18635.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 2024-01-08
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 4'SUSPENDED INDUSTRIAL LED LUMINAIRE
[MORE] WHITE REFLECTOR w/OPEN BOTTOM
[MORE] 0-10V DIMMING DRIVER
[LUMCAT] 80-4-L32-930-DIM-UNV
[LAMPCAT] HLM 90 CRI 3000K CCT
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] INDOOR
[_SEARCH_MOUNTING] SUSPENDED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2632
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	20.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.88 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2855	2786	2778
55	2751	2690	2679
65	2620	2562	1370
75	2107	1170	224
85	947	414	311

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-4-L32-930-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	988.906	988.906	988.906	988.906	988.906
5	977.159	973.802	970.865	974.641	978.837
10	957.439	954.083	969.187	971.704	962.055
15	935.203	944.853	934.363	926.811	926.811
20	907.092	928.070	898.281	893.666	893.666
25	870.590	875.205	860.521	858.003	858.003
30	824.019	816.886	811.432	808.495	807.656
35	774.511	767.378	761.085	760.245	758.567
40	719.968	708.220	704.863	703.605	702.766
45	657.033	643.607	641.090	640.251	639.412
50	583.610	573.960	571.023	570.184	570.184
55	513.543	503.054	502.215	500.117	500.117
60	433.827	425.855	425.016	423.338	422.079
65	360.403	353.271	352.432	271.456	188.383
70	275.232	268.939	215.235	146.007	148.944
75	177.475	177.475	98.597	85.171	18.880
80	93.982	60.836	17.202	14.265	14.265
85	26.852	14.265	11.748	8.811	8.811
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-4-L32-930-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	356.97	N.A.	13.60
0-30	754.88	N.A.	28.70
0-40	1232.5	N.A.	46.80
0-60	2176.91	N.A.	82.70
0-80	2614.55	N.A.	99.30
0-90	2631.68	N.A.	100.00
10-90	2538.88	N.A.	96.50
20-40	875.53	N.A.	33.30
20-50	1371.32	N.A.	52.10
40-70	1256.46	N.A.	47.70
60-80	437.64	N.A.	16.60
70-80	125.59	N.A.	4.80
80-90	17.13	N.A.	0.70
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	2631.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	92.80
10-20	264.17
20-30	397.91
30-40	477.62
40-50	495.79
50-60	448.62
60-70	312.06
70-80	125.59
80-90	17.13
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 : 80-4-L32-930-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	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	41	39
7	66	53	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-4-L32-930-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	15.9	17.5	16.3	17.8	18.1	UGR Viewed Endwise			
	3H	17.8	19.2	18.2	19.6	19.9	15.8	17.4	16.2	17.8
	4H	18.4	19.8	18.8	20.1	20.5	16.5	18.0	16.9	18.3
	6H	18.8	20.0	19.2	20.4	20.8	16.6	17.9	17.0	18.3
	8H	18.8	20.0	19.3	20.4	20.8	16.5	17.8	16.9	18.2
	12H	18.9	20.0	19.3	20.4	20.8	16.5	17.7	16.9	18.1

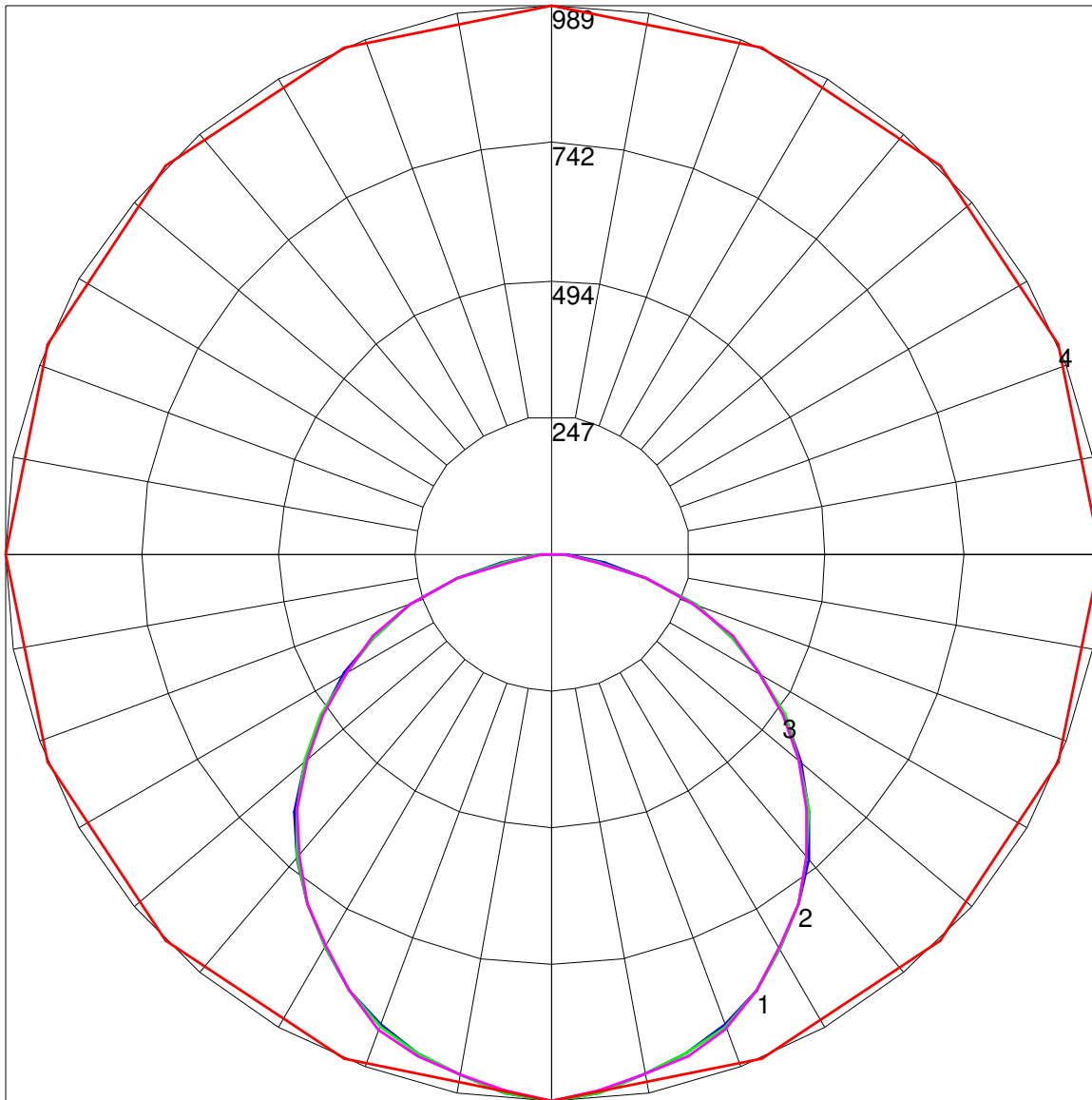
4H	2H	16.6	17.9	17.0	18.3	18.7	16.5	17.9	16.9	18.2
	3H	18.6	19.7	19.0	20.1	20.5	18.2	17.8	18.9	19.3
	4H	19.3	20.3	19.7	20.7	21.2	17.3	18.5	17.8	18.9
	6H	19.7	20.6	20.2	21.0	21.5	17.5	18.5	17.9	18.9
	8H	19.8	20.6	20.3	21.1	21.5	17.4	18.3	17.9	18.8
	12H	19.9	20.6	20.3	21.1	21.5	17.4	18.3	17.9	18.7

8H	4H	19.4	20.2	19.8	20.6	21.1	17.4	18.1	17.9	18.6
	6H	19.8	20.4	20.3	20.9	21.4	17.6	18.5	18.1	18.9
	8H	19.9	20.5	20.4	21.0	21.5	17.6	18.3	18.1	18.8
	12H	19.9	20.5	20.4	21.0	21.5	17.6	18.2	18.1	18.7

12H	4H	19.3	20.1	19.8	20.5	21.0	17.6	18.1	18.1	18.6
	6H	19.8	20.4	20.3	20.8	21.4	17.6	18.4	18.1	18.9
	8H	19.9	20.4	20.4	20.9	21.5	17.6	18.2	18.2	18.7

Maximum UGR = 21.5

POLAR GRAPH



Maximum Candela = 988.906 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (5 - 185)
3 - Vertical Plane Through Horizontal Angles (10 - 190)
4 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)