



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L65-930-(L53)-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] 09-29-2022

[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-L65-930-(L53)-DIM-UNV

[LAMPCAT] HLM 90 CRI 3000K 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	4465
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	35.2
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	16079	12975	12267
55	13632	10877	10992
65	10705	9294	9985
75	7372	7597	8859
85	3294	6445	7766

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1506.520	1506.520	1506.520	1506.520	1506.520
5	1519.478	1500.382	1499.700	1496.290	1478.558
10	1493.562	1476.512	1477.876	1473.784	1457.417
15	1451.961	1435.593	1439.685	1435.593	1421.953
20	1382.397	1370.122	1382.397	1376.259	1361.938
25	1296.466	1291.692	1302.604	1301.922	1280.781
30	1201.670	1203.716	1215.991	1215.991	1190.076
35	1085.731	1102.099	1108.237	1110.283	1083.685
40	959.562	984.114	978.658	989.570	975.930
45	836.122	857.946	856.582	876.359	872.950
50	709.953	729.731	745.417	778.835	785.655
55	580.375	604.927	639.708	689.494	711.999
60	458.299	488.306	547.639	609.019	638.344
65	340.996	388.735	463.072	533.318	563.325
70	233.923	296.666	376.459	452.843	488.306
75	148.674	208.689	298.712	375.095	410.559
80	81.157	139.126	234.605	304.168	336.904
85	25.916	85.249	178.000	240.061	270.751
90	0.000	55.241	135.716	193.686	214.827
95	0.000	50.467	126.850	177.318	189.594
100	0.000	47.739	117.985	161.632	172.544
105	0.000	43.647	110.483	149.356	160.268
110	0.000	40.920	102.981	139.808	150.720
115	0.000	37.510	94.115	130.942	141.172
120	0.000	32.054	84.567	118.667	130.942
125	0.000	26.598	76.383	108.437	119.349
130	0.000	21.824	66.153	96.843	104.345
135	0.000	19.778	53.195	83.885	91.387
140	0.000	16.368	41.602	70.245	77.747
145	0.000	12.958	32.054	54.559	62.061
150	0.000	9.548	24.552	41.602	47.739
155	0.000	7.502	19.778	30.008	34.782
160	0.000	0.000	14.322	21.824	24.552
165	0.000	0.000	9.548	15.686	17.050
170	0.000	0.000	0.000	9.548	10.230
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	546.90	N.A.	12.20
0-30	1143.98	N.A.	25.60
0-40	1831.29	N.A.	41.00
0-60	3077.21	N.A.	68.90
0-80	3842.79	N.A.	86.10
0-90	4025.59	N.A.	90.20
10-90	3883.25	N.A.	87.00
20-40	1284.39	N.A.	28.80
20-50	1951.02	N.A.	43.70
40-70	1701.32	N.A.	38.10
60-80	765.58	N.A.	17.10
70-80	310.18	N.A.	6.90
80-90	182.81	N.A.	4.10
90-110	224.94	N.A.	5.00
90-120	307.28	N.A.	6.90
90-130	367.95	N.A.	8.20
90-150	428.15	N.A.	9.60
90-180	439.43	N.A.	9.80
110-180	214.50	N.A.	4.80
0-180	4465.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	142.34
10-20	404.55
20-30	597.08
30-40	687.31
40-50	666.63
50-60	579.28
60-70	455.40
70-80	310.18
80-90	182.81
90-100	123.08
100-110	101.86
110-120	82.35
120-130	60.66
130-140	39.31
140-150	20.89
150-160	8.74
160-170	2.41
170-180	0.13

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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

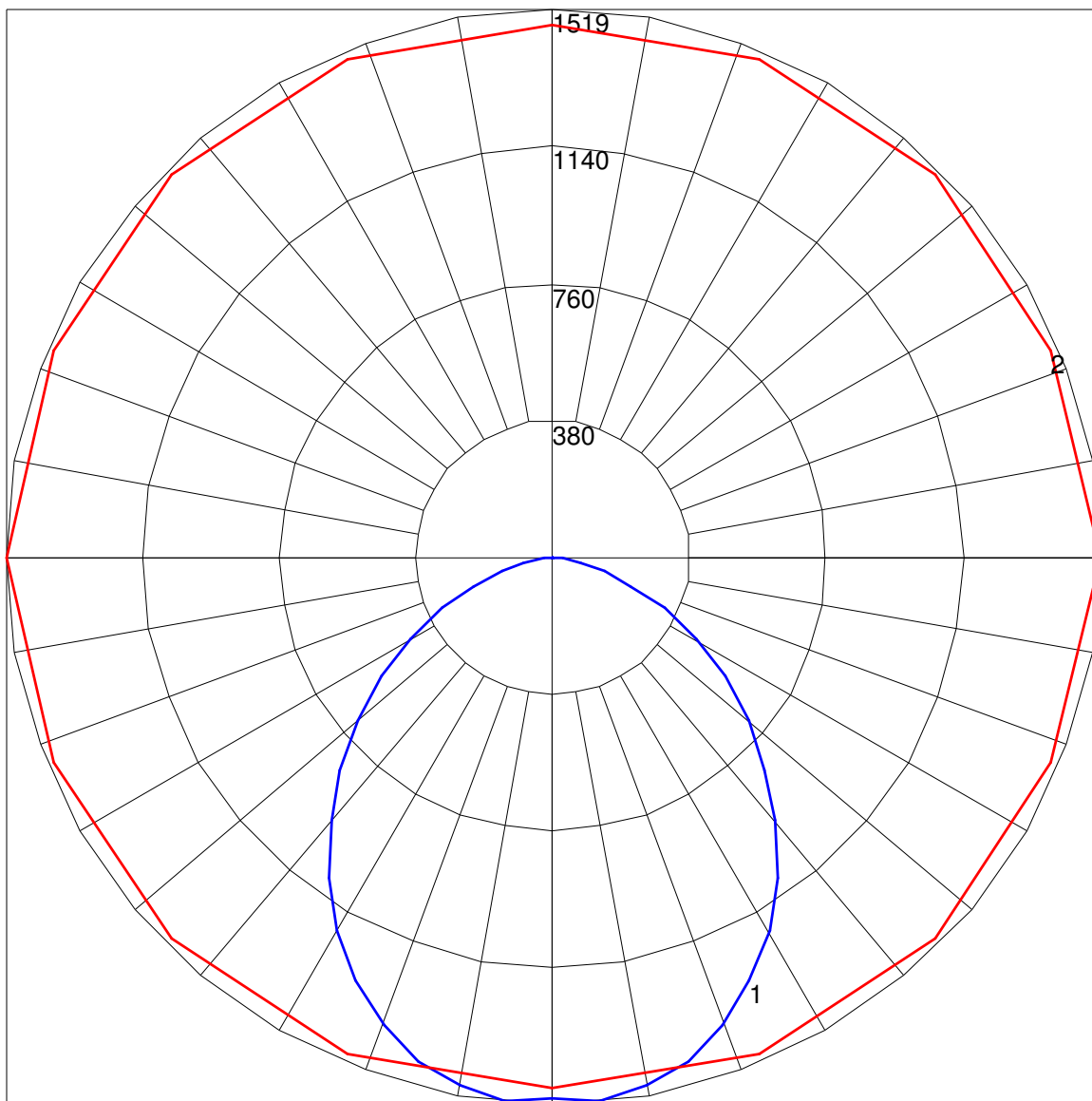
Reflectances

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	18.3	19.7	18.8	20.2	20.8	20.5	22.0	21.1	22.5	23.0
	3H	19.5	20.7	20.0	21.3	21.8	22.9	24.2	23.5	24.7	25.3
	4H	19.8	21.0	20.3	21.5	22.1	24.1	25.3	24.6	25.8	26.4
	6H	19.9	21.1	20.5	21.6	22.2	25.2	26.3	25.8	26.9	27.5
	8H	19.9	21.0	20.5	21.6	22.2	25.8	26.9	26.4	27.4	28.1
	12H	19.9	21.0	20.5	21.5	22.2	26.4	27.4	27.0	28.0	28.7
4H	2H	19.1	20.3	19.6	20.8	21.5	20.9	22.1	21.4	22.6	23.3
	3H	20.5	21.5	21.1	22.1	22.8	23.5	24.5	24.1	25.1	25.7
	4H	21.0	21.9	21.5	22.5	23.1	24.8	25.7	25.4	26.3	27.0
	6H	21.2	22.0	21.8	22.7	23.3	26.1	26.9	26.7	27.5	28.2
	8H	21.3	22.0	21.9	22.7	23.3	26.8	27.6	27.4	28.2	28.9
	12H	21.3	22.0	21.9	22.6	23.3	27.5	28.2	28.1	28.9	29.6
8H	4H	21.6	22.4	22.2	23.0	23.7	24.9	25.7	25.5	26.3	27.0
	6H	22.0	22.7	22.7	23.3	24.0	26.4	27.1	27.1	27.7	28.4
	8H	22.2	22.7	22.8	23.4	24.1	27.2	27.8	27.9	28.5	29.2
	12H	22.2	22.7	22.9	23.4	24.2	28.1	28.6	28.8	29.3	30.1
12H	4H	21.8	22.5	22.4	23.1	23.8	24.9	25.6	25.5	26.3	27.0
	6H	22.3	22.9	23.0	23.5	24.3	26.4	27.0	27.1	27.6	28.4
	8H	22.5	23.0	23.2	23.7	24.5	27.3	27.8	27.9	28.5	29.2

Maximum UGR = 30.1

POLAR GRAPH



Maximum Candela = 1519.478 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.)