



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L65-940-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] 08-17-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO.64836
 [LUMINAIRE] 4' LED STRIP LUMINAIRE
 [MORE] WITH FROSTED ACRYLIC LENS
 [LUMCAT] 75S-4-L65-940-DIM-UNV
 [LAMPCAT] HLM 90 CRI 4000K CCT
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Commercial, Industrial, Manufacturing,
 [_SEARCH_MOUNTING] Surface, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5717
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	48.8
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	20588	16613	15707
55	17455	13926	14075
65	13706	11900	12785
75	9439	9727	11343
85	4217	8252	9943

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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	1928.953	1928.953	1928.953	1928.953	1928.953
5	1945.544	1921.094	1920.220	1915.854	1893.150
10	1912.361	1890.531	1892.277	1887.038	1866.080
15	1859.095	1838.137	1843.377	1838.137	1820.673
20	1770.026	1754.308	1770.026	1762.167	1743.829
25	1660.000	1653.887	1667.859	1666.985	1639.915
30	1538.621	1541.241	1556.959	1556.959	1523.777
35	1390.173	1411.131	1418.990	1421.609	1387.554
40	1228.627	1260.063	1253.077	1267.049	1249.584
45	1070.573	1098.516	1096.770	1122.093	1117.727
50	909.027	934.350	954.434	997.222	1005.954
55	743.114	774.550	819.084	882.830	911.646
60	586.807	625.229	701.199	779.789	817.338
65	436.612	497.738	592.919	682.861	721.283
70	299.516	379.853	482.020	579.821	625.229
75	190.363	267.207	382.472	480.273	525.681
80	103.914	178.138	300.389	389.458	431.373
85	33.183	109.153	227.912	307.375	346.670
90	0.000	70.731	173.772	247.996	275.066
95	0.000	64.619	162.420	227.038	242.756
100	0.000	61.126	151.068	206.954	220.926
105	0.000	55.886	141.462	191.236	205.208
110	0.000	52.393	131.857	179.011	192.983
115	0.000	48.027	120.505	167.659	180.757
120	0.000	41.042	108.280	151.941	167.659
125	0.000	34.056	97.801	138.843	152.814
130	0.000	27.943	84.703	123.998	133.603
135	0.000	25.324	68.112	107.407	117.012
140	0.000	20.957	53.267	89.942	99.548
145	0.000	16.591	41.042	69.858	79.463
150	0.000	12.225	31.436	53.267	61.126
155	0.000	9.605	25.324	38.422	44.534
160	0.000	0.000	18.338	27.943	31.436
165	0.000	0.000	12.225	20.084	21.831
170	0.000	0.000	0.000	12.225	13.098
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	700.25	N.A.	12.20
0-30	1464.76	N.A.	25.60
0-40	2344.79	N.A.	41.00
0-60	3940.07	N.A.	68.90
0-80	4920.32	N.A.	86.10
0-90	5154.38	N.A.	90.20
10-90	4972.12	N.A.	87.00
20-40	1644.54	N.A.	28.80
20-50	2498.1	N.A.	43.70
40-70	2178.37	N.A.	38.10
60-80	980.25	N.A.	17.10
70-80	397.16	N.A.	6.90
80-90	234.06	N.A.	4.10
90-110	288.01	N.A.	5.00
90-120	393.45	N.A.	6.90
90-130	471.12	N.A.	8.20
90-150	548.21	N.A.	9.60
90-180	562.65	N.A.	9.80
110-180	274.64	N.A.	4.80
0-180	5717.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	182.26
10-20	517.99
20-30	764.51
30-40	880.03
40-50	853.56
50-60	741.72
60-70	583.09
70-80	397.16
80-90	234.06
90-100	157.59
100-110	130.42
110-120	105.43
120-130	77.67
130-140	50.34
140-150	26.75
150-160	11.19
160-170	3.09
170-180	0.17

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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

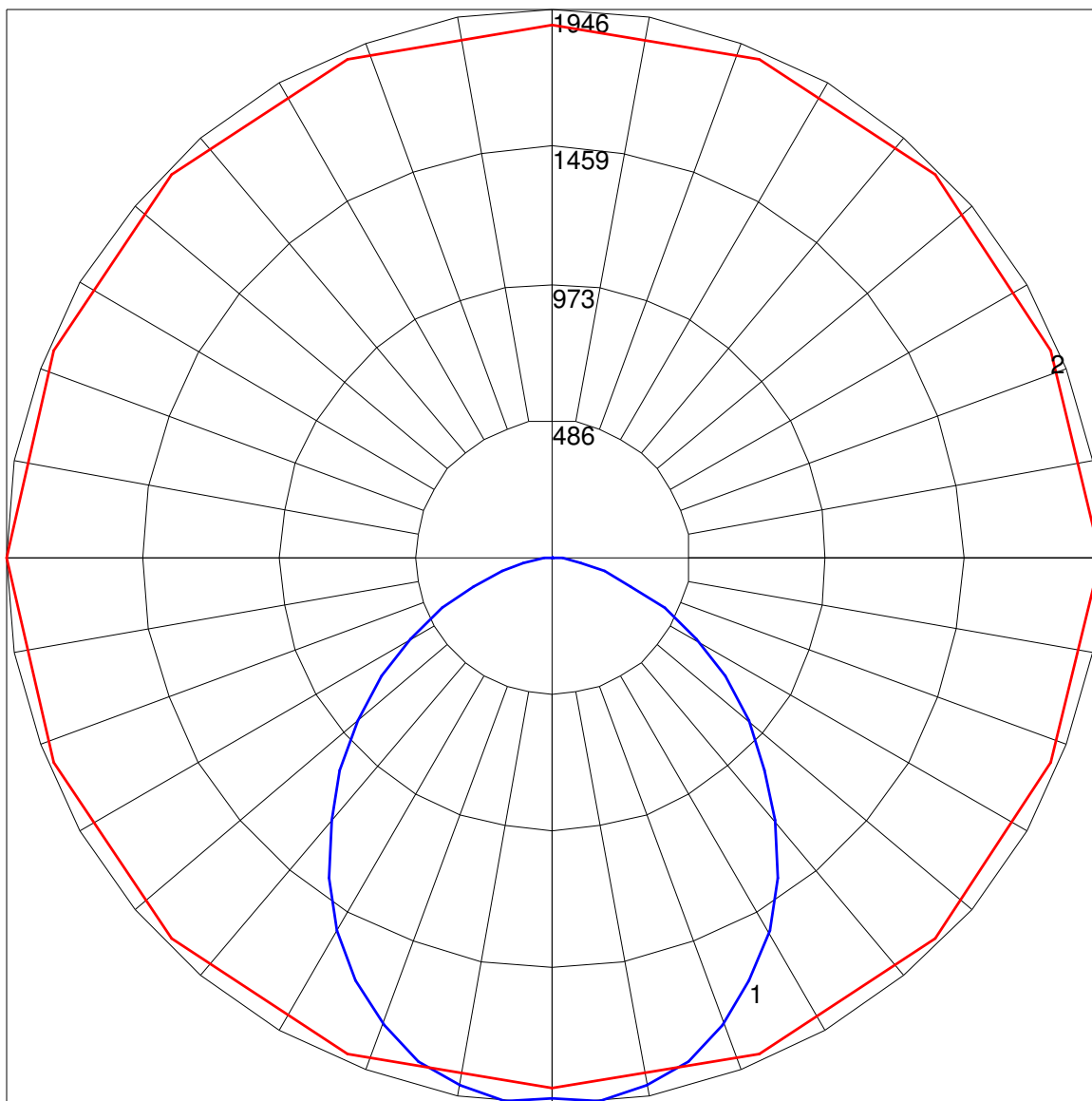
Reflectances

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	19.2	20.6	19.7	21.1	21.7	21.4	22.9	22.0	23.4	23.9
	3H	20.4	21.6	20.9	22.2	22.7	23.8	25.1	24.4	25.6	26.2
	4H	20.7	21.9	21.2	22.4	23.0	25.0	26.2	25.5	26.7	27.3
	6H	20.8	22.0	21.4	22.5	23.1	26.1	27.2	26.7	27.8	28.4
	8H	20.8	21.9	21.4	22.5	23.1	26.7	27.8	27.3	28.3	29.0
	12H	20.8	21.9	21.4	22.4	23.1	27.3	28.3	27.9	28.9	29.6
4H	2H	20.0	21.2	20.5	21.7	22.4	21.8	23.0	22.3	23.5	24.2
	3H	21.4	22.4	22.0	23.0	23.7	24.4	25.4	25.0	26.0	26.6
	4H	21.9	22.8	22.4	23.4	24.0	25.7	26.6	26.3	27.2	27.9
	6H	22.1	22.9	22.7	23.6	24.2	27.0	27.8	27.6	28.4	29.1
	8H	22.2	22.9	22.8	23.6	24.2	27.7	28.5	28.3	29.1	29.8
	12H	22.2	22.9	22.8	23.5	24.2	28.4	29.1	29.0	29.8	30.5
8H	4H	22.5	23.3	23.1	23.9	24.6	25.8	26.6	26.4	27.2	27.9
	6H	22.9	23.6	23.6	24.2	24.9	27.3	28.0	28.0	28.6	29.3
	8H	23.1	23.6	23.7	24.3	25.0	28.1	28.7	28.8	29.4	30.1
	12H	23.1	23.6	23.8	24.3	25.1	29.0	29.5	29.7	30.2	31.0
12H	4H	22.7	23.4	23.3	24.0	24.7	25.8	26.5	26.4	27.2	27.9
	6H	23.2	23.8	23.9	24.4	25.2	27.3	27.9	28.0	28.5	29.3
	8H	23.4	23.9	24.1	24.6	25.4	28.2	28.7	28.8	29.4	30.1

Maximum UGR = 31.0

POLAR GRAPH



Maximum Candela = 1945.544 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.)