



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L40-8TW-PSQ02UWMN-UNV_4000K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 19750.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 02/04/2021

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 2-56 LED 22"ARRAYS 4'SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-4-L40-8TW-PSQ02UWN-UNV

[LAMPCAT] HLM 80 CRI TUNABLE WHITE 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	4051
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	33
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.72 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.10 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14166	11978	11957
55	11692	10251	10526
65	9629	8610	8868
75	6506	7075	7266
85	3818	6077	5958

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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	1297.484	1297.484	1297.484	1297.484	1297.484
5	1311.729	1292.530	1293.149	1290.053	1277.047
10	1290.053	1273.950	1277.047	1275.189	1263.422
15	1252.274	1240.507	1249.177	1252.893	1240.507
20	1195.296	1192.199	1207.063	1213.256	1205.824
25	1128.409	1132.744	1153.801	1168.046	1162.472
30	1051.613	1057.806	1093.727	1115.403	1114.164
35	958.095	969.243	1021.266	1051.613	1055.948
40	858.384	866.435	932.083	977.913	988.442
45	740.712	761.150	836.707	897.401	912.265
50	618.705	651.529	743.809	810.076	828.656
55	501.653	544.386	648.433	717.797	744.428
60	403.799	443.436	556.773	626.137	654.006
65	310.281	353.634	471.306	534.477	558.631
70	217.383	275.599	390.174	445.294	468.829
75	133.774	208.093	315.236	367.259	387.697
80	74.319	143.683	251.446	299.753	312.759
85	31.586	99.092	200.661	242.156	250.826
90	4.335	68.126	155.450	191.991	203.758
95	0.619	46.449	124.484	152.354	164.740
100	0.000	30.347	96.615	124.484	134.393
105	0.000	21.676	74.938	101.569	109.620
110	0.000	14.864	57.597	82.989	89.802
115	0.000	12.386	47.069	69.364	74.319
120	0.000	9.290	35.921	56.978	61.932
125	0.000	5.574	26.631	45.211	50.785
130	0.000	3.716	19.199	35.301	40.256
135	0.000	1.858	14.244	27.870	31.586
140	0.000	1.858	9.909	21.676	24.773
145	0.000	0.000	6.193	13.625	17.341
150	0.000	0.000	4.335	9.909	12.386
155	0.000	0.000	3.097	4.955	8.051
160	0.000	0.000	1.239	3.716	4.335
165	0.000	0.000	0.000	1.239	1.858
170	0.000	0.000	0.000	0.000	0.000
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	474.46	N.A.	11.70
0-30	1004.42	N.A.	24.80
0-40	1636.84	N.A.	40.40
0-60	2845.54	N.A.	70.20
0-80	3597.86	N.A.	88.80
0-90	3786.94	N.A.	93.50
10-90	3664.1	N.A.	90.50
20-40	1162.39	N.A.	28.70
20-50	1803.18	N.A.	44.50
40-70	1654.31	N.A.	40.80
60-80	752.32	N.A.	18.60
70-80	306.70	N.A.	7.60
80-90	189.09	N.A.	4.70
90-110	180.44	N.A.	4.50
90-120	221.81	N.A.	5.50
90-130	245.30	N.A.	6.10
90-150	262.06	N.A.	6.50
90-180	263.82	N.A.	6.50
110-180	83.37	N.A.	2.10
0-180	4050.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	122.84
10-20	351.62
20-30	529.97
30-40	632.42
40-50	640.79
50-60	567.90
60-70	445.62
70-80	306.70
80-90	189.09
90-100	112.58
100-110	67.86
110-120	41.37
120-130	23.48
130-140	11.86
140-150	4.90
150-160	1.53
160-170	0.22
170-180	0.00

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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	114	114	114	114	107	107	107	102	102	102	96	96	96	93
1	106	101	96	92	103	98	94	90	92	89	86	87	84	82	83	80	78	76
2	96	87	80	74	93	85	78	73	80	75	70	76	72	68	72	68	65	62
3	88	77	68	61	84	75	67	60	71	64	59	67	61	57	64	59	55	52
4	80	68	59	52	77	66	58	51	63	56	50	60	53	48	57	51	47	45
5	74	61	51	45	71	59	51	44	56	49	43	54	47	42	51	45	41	39
6	68	55	46	39	66	53	45	39	51	43	38	48	42	37	46	41	36	34
7	63	49	41	34	61	48	40	34	46	39	33	44	38	33	42	36	32	30
8	59	45	37	31	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	28	53	41	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	28	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

X=2H	Y=2H	17.7	19.2	18.1	19.6	20.1	21.1	22.6	21.5	23.0	23.5
	3H	18.9	20.2	19.3	20.7	21.2	23.3	24.6	23.7	25.1	25.6
	4H	19.2	20.5	19.7	21.0	21.5	24.3	25.6	24.8	26.1	26.6
	6H	19.4	20.6	19.9	21.1	21.6	25.3	26.5	25.9	27.0	27.6
	8H	19.4	20.5	19.9	21.1	21.6	25.9	27.0	26.4	27.5	28.1
	12H	19.4	20.5	19.9	21.0	21.6	26.4	27.5	27.0	28.0	28.6

UGR Viewed Endwise

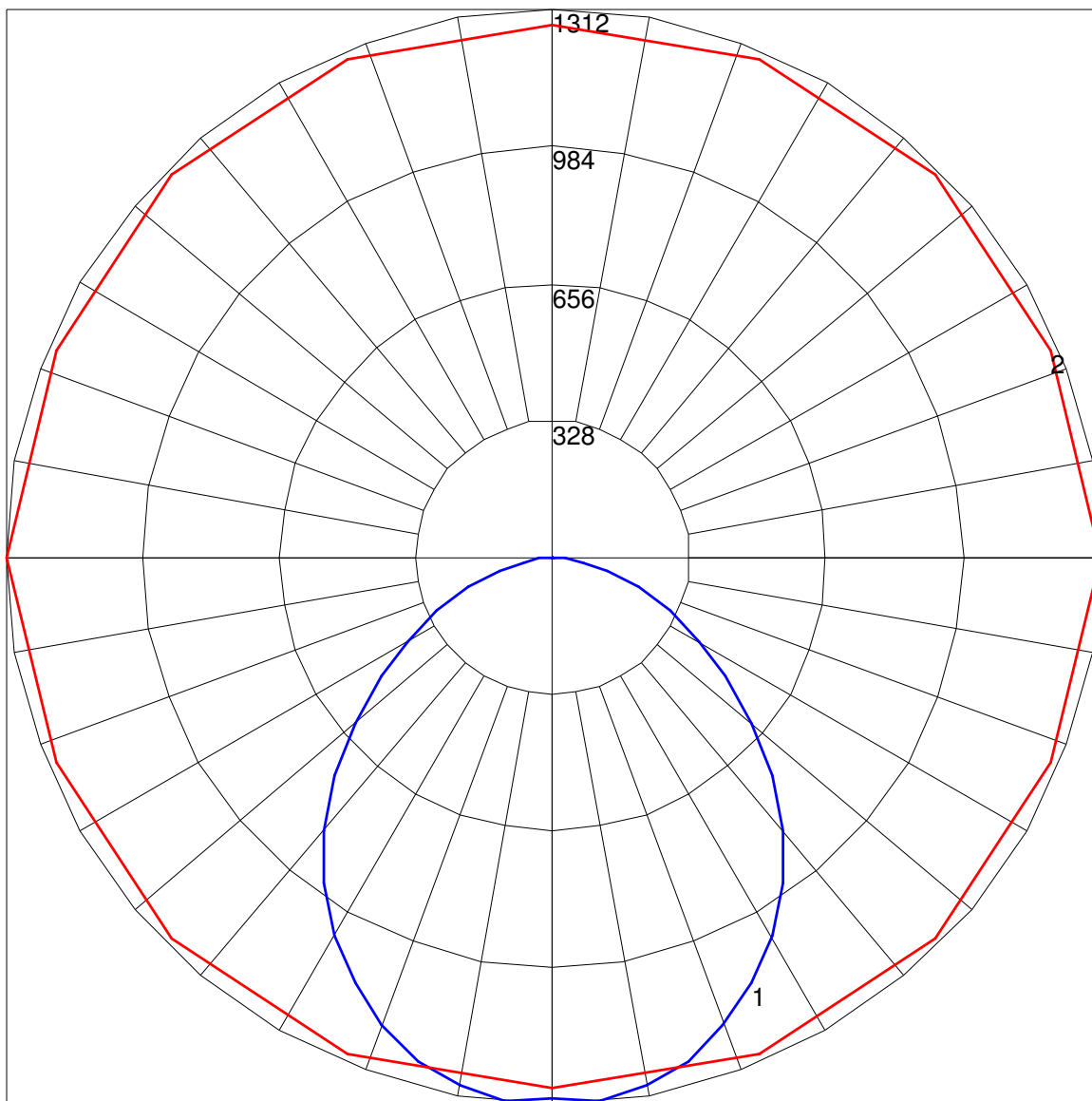
4H	2H	18.7	20.0	19.2	20.5	21.0	21.4	22.7	21.9	23.2	23.7
	3H	20.2	21.3	20.7	21.8	22.3	23.8	24.9	24.3	25.4	26.0
	4H	20.6	21.6	21.2	22.2	22.8	25.0	26.0	25.5	26.5	27.1
	6H	20.9	21.8	21.5	22.3	23.0	26.2	27.1	26.8	27.7	28.3
	8H	21.0	21.8	21.5	22.4	23.0	26.8	27.7	27.4	28.2	28.8
	12H	21.0	21.7	21.6	22.3	23.0	27.5	28.3	28.1	28.9	29.5

8H	4H	21.4	22.2	22.0	22.8	23.4	25.2	26.0	25.7	26.5	27.2
	6H	21.9	22.6	22.5	23.2	23.8	26.5	27.2	27.1	27.8	28.4
	8H	22.0	22.6	22.6	23.3	23.9	27.3	27.9	27.9	28.5	29.2
	12H	22.1	22.7	22.7	23.3	24.0	28.1	28.7	28.7	29.3	30.0

12H	4H	21.6	22.3	22.2	22.9	23.6	25.1	25.9	25.7	26.5	27.1
	6H	22.2	22.8	22.8	23.4	24.1	26.6	27.2	27.2	27.8	28.5
	8H	22.4	23.0	23.0	23.6	24.3	27.3	27.9	28.0	28.5	29.2

Maximum UGR = 30.0

POLAR GRAPH



Maximum Candela = 1311.729 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.)