



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75R-4-P34-840-POE PR\_.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] 02-14-2022  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] 4' LED STRIP LUMINAIRE  
 [MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS  
 [LUMCAT] 75R-4-P34-840-POE PR  
 [LAMPCAT] HLM 80 CRI 4000K 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	3328
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	24
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	11638	9840	9823
55	9605	8421	8648
65	7911	7073	7285
75	5345	5812	5969
85	3136	4992	4895

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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	1065.916	1065.916	1065.916	1065.916	1065.916
5	1077.619	1061.846	1062.355	1059.811	1049.126
10	1059.811	1046.582	1049.126	1047.600	1037.933
15	1028.775	1019.108	1026.231	1029.284	1019.108
20	981.966	979.422	991.633	996.721	990.615
25	927.017	930.578	947.877	959.579	955.000
30	863.927	869.014	898.524	916.332	915.314
35	787.099	796.257	838.996	863.927	867.488
40	705.184	711.798	765.730	803.380	812.030
45	608.514	625.304	687.376	737.238	749.449
50	508.282	535.248	611.058	665.498	680.762
55	412.120	447.227	532.704	589.688	611.566
60	331.732	364.294	457.403	514.387	537.283
65	254.904	290.519	387.190	439.086	458.929
70	178.586	226.412	320.538	365.820	385.155
75	109.899	170.954	258.974	301.713	318.503
80	61.055	118.039	206.569	246.255	256.939
85	25.948	81.407	164.848	198.937	206.060
90	3.562	55.967	127.706	157.725	167.392
95	0.509	38.159	102.267	125.163	135.338
100	0.000	24.931	79.371	102.267	110.408
105	0.000	17.808	61.564	83.442	90.056
110	0.000	12.211	47.318	68.178	73.775
115	0.000	10.176	38.668	56.985	61.055
120	0.000	7.632	29.510	46.809	50.879
125	0.000	4.579	21.878	37.142	41.721
130	0.000	3.053	15.773	29.001	33.071
135	0.000	1.526	11.702	22.896	25.948
140	0.000	1.526	8.141	17.808	20.352
145	0.000	0.000	5.088	11.193	14.246
150	0.000	0.000	3.562	8.141	10.176
155	0.000	0.000	2.544	4.070	6.614
160	0.000	0.000	1.018	3.053	3.562
165	0.000	0.000	0.000	1.018	1.526
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	389.78	N.A.	11.70
0-30	825.16	N.A.	24.80
0-40	1344.71	N.A.	40.40
0-60	2337.68	N.A.	70.20
0-80	2955.73	N.A.	88.80
0-90	3111.07	N.A.	93.50
10-90	3010.16	N.A.	90.50
20-40	954.93	N.A.	28.70
20-50	1481.36	N.A.	44.50
40-70	1359.06	N.A.	40.80
60-80	618.05	N.A.	18.60
70-80	251.96	N.A.	7.60
80-90	155.34	N.A.	4.70
90-110	148.24	N.A.	4.50
90-120	182.23	N.A.	5.50
90-130	201.52	N.A.	6.10
90-150	215.29	N.A.	6.50
90-180	216.73	N.A.	6.50
110-180	68.49	N.A.	2.10
0-180	3327.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	100.91
10-20	288.86
20-30	435.38
30-40	519.55
40-50	526.43
50-60	466.55
60-70	366.09
70-80	251.96
80-90	155.34
90-100	92.49
100-110	55.75
110-120	33.99
120-130	19.29
130-140	9.75
140-150	4.03
150-160	1.26
160-170	0.18
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**

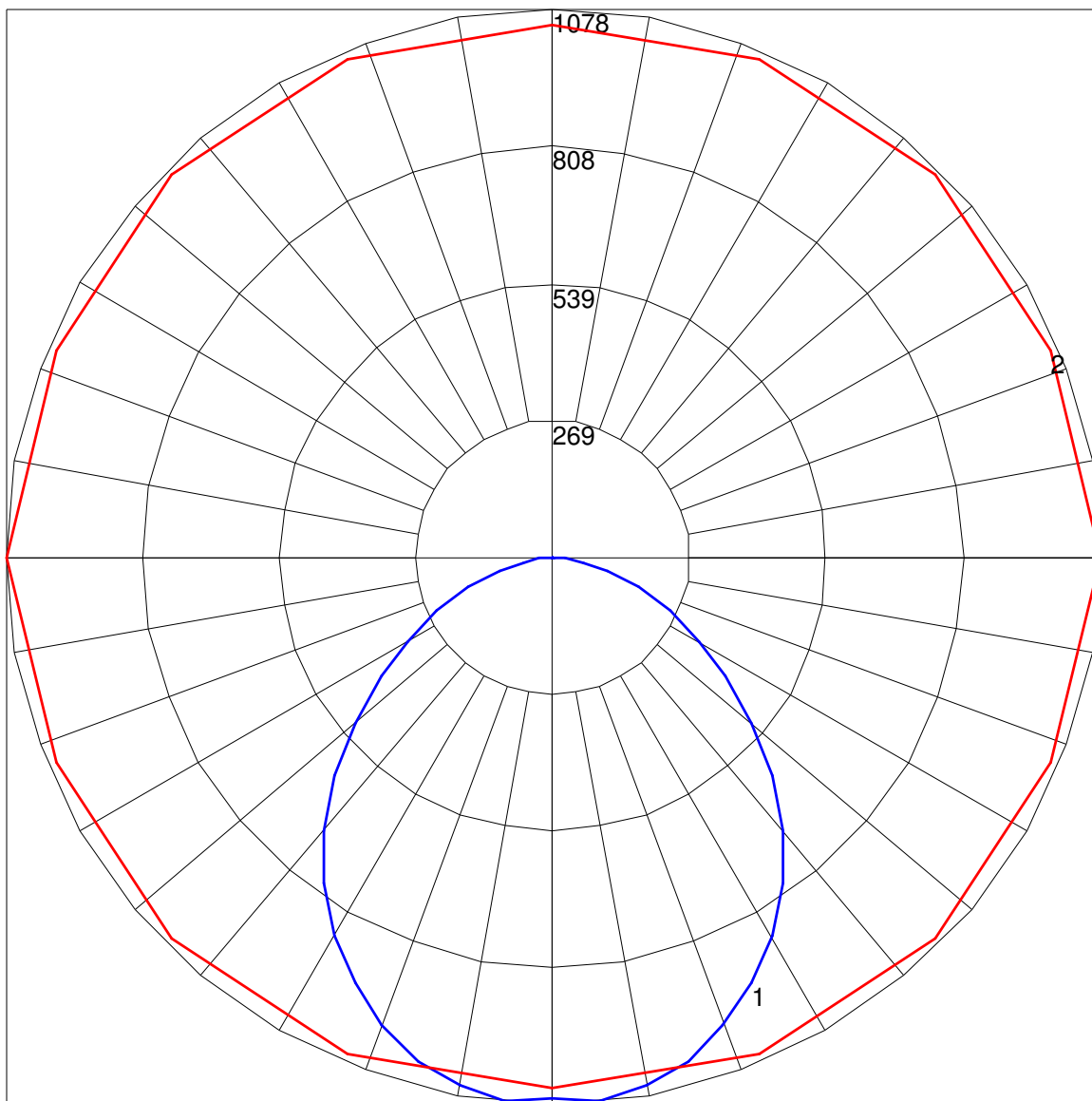
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	17.0	18.5	17.4	18.9	19.4	20.4	21.9	20.8	22.3	22.8
	3H	18.2	19.5	18.6	20.0	20.5	22.6	23.9	23.0	24.4	24.9
	4H	18.5	19.8	19.0	20.3	20.8	23.6	24.9	24.1	25.4	25.9
	6H	18.7	19.9	19.2	20.4	20.9	24.6	25.8	25.2	26.3	26.9
	8H	18.7	19.8	19.2	20.4	20.9	25.2	26.3	25.7	26.8	27.4
	12H	18.7	19.8	19.2	20.3	20.9	25.7	26.8	26.3	27.3	27.9
4H	2H	18.0	19.3	18.5	19.8	20.3	20.7	22.0	21.2	22.5	23.0
	3H	19.5	20.6	20.0	21.1	21.6	23.1	24.2	23.6	24.7	25.3
	4H	19.9	20.9	20.5	21.5	22.1	24.3	25.3	24.8	25.8	26.4
	6H	20.2	21.1	20.8	21.6	22.3	25.5	26.4	26.1	27.0	27.6
	8H	20.3	21.1	20.8	21.7	22.3	26.1	27.0	26.7	27.5	28.1
	12H	20.3	21.0	20.9	21.6	22.3	26.8	27.6	27.4	28.2	28.8
8H	4H	20.7	21.5	21.3	22.1	22.7	24.5	25.3	25.0	25.8	26.5
	6H	21.2	21.9	21.8	22.5	23.1	25.8	26.5	26.4	27.1	27.7
	8H	21.3	21.9	21.9	22.6	23.2	26.6	27.2	27.2	27.8	28.5
	12H	21.4	22.0	22.0	22.6	23.3	27.4	28.0	28.0	28.6	29.3
12H	4H	20.9	21.6	21.5	22.2	22.9	24.4	25.2	25.0	25.8	26.4
	6H	21.5	22.1	22.1	22.7	23.4	25.9	26.5	26.5	27.1	27.8
	8H	21.7	22.3	22.3	22.9	23.6	26.6	27.2	27.3	27.8	28.5

Maximum UGR = 29.3

POLAR GRAPH



Maximum Candela = 1077.619 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.)