



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-3-L40-835-DIM-UNV_.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] 31-AUG-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 3' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-3-L40-835-DIM-UNV

[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	3885
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	28.2
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)	2.80 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	17905	15202	15248
55	14723	12993	13423
65	12054	10895	11308
75	8046	8931	9266
85	4508	7641	7598

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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	1244.316	1244.316	1244.316	1244.316	1244.316
5	1257.977	1239.565	1240.159	1237.189	1224.716
10	1237.189	1221.747	1224.716	1222.934	1211.649
15	1200.958	1189.673	1197.989	1201.552	1189.673
20	1146.315	1143.346	1157.600	1163.540	1156.412
25	1082.169	1086.327	1106.521	1120.182	1114.836
30	1008.520	1014.459	1048.908	1069.696	1068.508
35	918.834	929.525	979.417	1008.520	1012.678
40	823.209	830.930	893.888	937.840	947.937
45	710.359	729.959	802.421	860.627	874.882
50	593.352	624.831	713.329	776.881	794.699
55	481.096	522.078	621.861	688.383	713.923
60	387.253	425.265	533.957	600.479	627.207
65	297.567	339.143	451.993	512.575	535.739
70	208.475	264.306	374.186	427.047	449.617
75	128.292	199.566	302.318	352.210	371.810
80	71.273	137.795	241.142	287.470	299.943
85	30.291	95.031	192.438	232.233	240.548
90	4.158	65.334	149.080	184.123	195.408
95	0.594	44.546	119.383	146.111	157.990
100	0.000	29.103	92.656	119.383	128.886
105	0.000	20.788	71.867	97.407	105.128
110	0.000	14.255	55.237	79.589	86.122
115	0.000	11.879	45.140	66.522	71.273
120	0.000	8.909	34.449	54.643	59.395
125	0.000	5.346	25.540	43.358	48.704
130	0.000	3.564	18.412	33.855	38.606
135	0.000	1.782	13.661	26.728	30.291
140	0.000	1.782	9.503	20.788	23.758
145	0.000	0.000	5.939	13.067	16.630
150	0.000	0.000	4.158	9.503	11.879
155	0.000	0.000	2.970	4.752	7.721
160	0.000	0.000	1.188	3.564	4.158
165	0.000	0.000	0.000	1.188	1.782
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	455.01	N.A.	11.70
0-30	963.26	N.A.	24.80
0-40	1569.77	N.A.	40.40
0-60	2728.93	N.A.	70.20
0-80	3450.42	N.A.	88.80
0-90	3631.76	N.A.	93.50
10-90	3513.96	N.A.	90.50
20-40	1114.75	N.A.	28.70
20-50	1729.29	N.A.	44.50
40-70	1586.52	N.A.	40.80
60-80	721.49	N.A.	18.60
70-80	294.14	N.A.	7.60
80-90	181.34	N.A.	4.70
90-110	173.05	N.A.	4.50
90-120	212.72	N.A.	5.50
90-130	235.24	N.A.	6.10
90-150	251.32	N.A.	6.50
90-180	253.01	N.A.	6.50
110-180	79.96	N.A.	2.10
0-180	3884.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	117.80
10-20	337.21
20-30	508.25
30-40	606.50
40-50	614.54
50-60	544.63
60-70	427.36
70-80	294.14
80-90	181.34
90-100	107.97
100-110	65.08
110-120	39.67
120-130	22.52
130-140	11.38
140-150	4.70
150-160	1.47
160-170	0.21
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	124	124	124	124	120	120	120	120	113	113	113	107	107	107	101	101	101	98
1	112	106	101	97	108	103	98	94	97	93	90	92	89	86	87	85	82	80
2	101	92	84	78	98	89	82	77	84	79	74	80	75	71	76	72	68	66
3	92	81	72	65	89	78	70	64	74	67	62	70	65	60	67	62	58	55
4	84	71	62	55	81	70	61	54	66	58	52	63	56	51	60	54	50	47
5	78	64	54	47	75	62	53	46	59	51	45	56	50	44	54	48	43	41
6	72	57	48	41	69	56	47	41	53	46	40	51	44	39	49	43	38	36
7	66	52	43	36	64	51	42	36	49	41	35	46	40	34	45	38	34	31
8	62	47	38	32	60	46	38	32	44	37	31	43	36	31	41	35	30	28
9	58	44	35	29	56	43	34	29	41	33	28	39	33	28	38	32	27	25
10	54	40	32	26	52	39	31	26	38	31	26	36	30	25	35	29	25	23

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UGR TABLE - CORRECTED

Reflectances

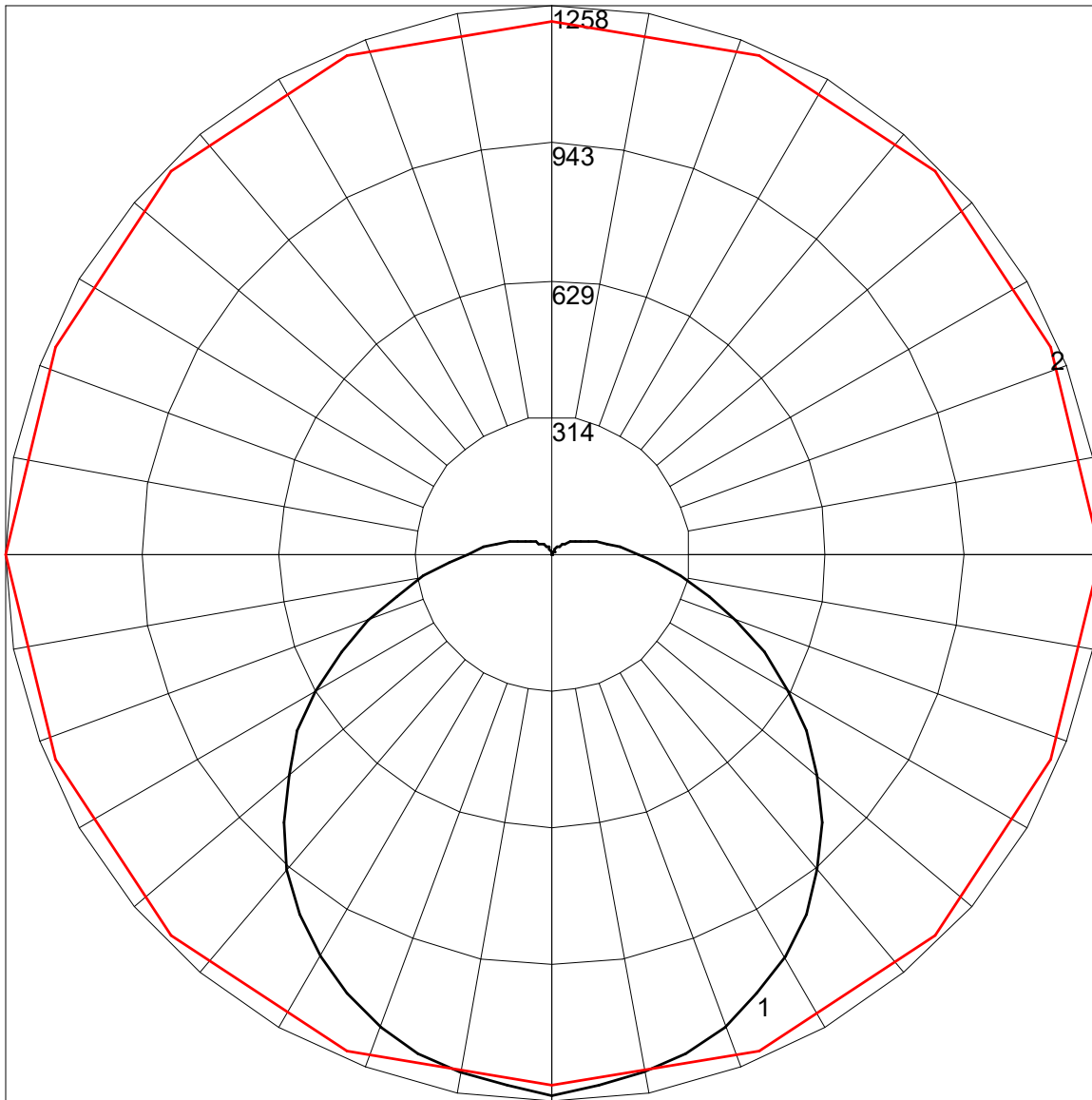
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	17.3	18.8	17.7	19.2	19.7	UGR Viewed Endwise				
	3H	18.5	19.8	18.9	20.3	20.8	20.7	22.2	21.1	22.6	23.1
	4H	18.8	20.1	19.3	20.6	21.1	22.9	24.2	23.3	24.7	25.2
	6H	19.0	20.2	19.5	20.7	21.2	23.9	25.2	24.4	25.7	26.2
	8H	19.0	20.1	19.5	20.7	21.2	24.9	26.1	25.5	26.6	27.2
	12H	19.0	20.1	19.5	20.6	21.2	25.5	26.6	26.0	27.1	27.7
							26.0	27.1	26.6	27.6	28.2
4H	2H	18.3	19.6	18.8	20.1	20.6	21.0	22.3	21.5	22.8	23.3
	3H	19.8	20.9	20.3	21.4	21.9	23.4	24.5	23.9	25.0	25.6
	4H	20.2	21.2	20.8	21.8	22.4	24.6	25.6	25.1	26.1	26.7
	6H	20.5	21.4	21.1	21.9	22.6	25.8	26.7	26.4	27.3	27.9
	8H	20.6	21.4	21.1	22.0	22.6	26.4	27.3	27.0	27.8	28.4
	12H	20.6	21.3	21.2	21.9	22.6	26.4	27.3	27.0	27.8	28.4
8H	4H	21.0	21.8	21.6	22.4	23.0	27.1	27.9	27.7	28.5	29.1
	6H	21.5	22.2	22.1	22.8	23.4	24.8	25.6	25.3	26.1	26.8
	8H	21.6	22.2	22.2	22.9	23.5	26.1	26.8	26.7	27.4	28.0
	12H	21.7	22.3	22.3	22.9	23.6	26.9	27.5	27.5	28.1	28.8
12H	4H	21.2	21.9	21.8	22.5	23.2	27.7	28.3	28.3	28.9	29.6
	6H	21.8	22.4	22.4	23.0	23.7	24.7	25.5	25.3	26.1	26.7
	8H	22.0	22.6	22.6	23.2	23.9	26.2	26.8	26.8	27.4	28.1
							26.9	27.5	27.6	28.1	28.8

Maximum UGR = 29.6

POLAR GRAPH



Maximum Candela = 1257.977 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)