



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-3-L64-840-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] 04-28-2023

[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-L64-840-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	6447
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	48.2
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	29712	25228	25303
55	24432	21561	22275
65	20004	18080	18765
75	13352	14821	15376
85	7482	12680	12608

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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	2064.893	2064.893	2064.893	2064.893	2064.893
5	2087.562	2057.008	2057.994	2053.065	2032.367
10	2053.065	2027.439	2032.367	2029.410	2010.683
15	1992.942	1974.215	1988.014	1993.928	1974.215
20	1902.264	1897.336	1920.991	1930.847	1919.020
25	1795.816	1802.716	1836.227	1858.896	1850.026
30	1673.598	1683.454	1740.621	1775.118	1773.147
35	1524.768	1542.510	1625.302	1673.598	1680.498
40	1366.082	1378.895	1483.372	1556.308	1573.064
45	1178.812	1211.338	1331.585	1428.177	1451.832
50	984.643	1036.882	1183.741	1289.203	1318.772
55	798.360	866.368	1031.954	1142.344	1184.726
60	642.630	705.710	886.081	996.471	1040.824
65	493.800	562.794	750.064	850.598	889.037
70	345.956	438.605	620.946	708.667	746.121
75	212.896	331.171	501.685	584.478	617.004
80	118.275	228.666	400.165	477.044	497.743
85	50.267	157.701	319.344	385.381	399.180
90	6.899	108.419	247.393	305.545	324.272
95	0.986	73.922	198.111	242.465	262.177
100	0.000	48.296	153.758	198.111	213.882
105	0.000	34.497	119.261	161.643	174.456
110	0.000	23.655	91.664	132.074	142.916
115	0.000	19.713	74.908	110.390	118.275
120	0.000	14.784	57.166	90.678	98.563
125	0.000	8.871	42.382	71.951	80.822
130	0.000	5.914	30.555	56.181	64.066
135	0.000	2.957	22.669	44.353	50.267
140	0.000	2.957	15.770	34.497	39.425
145	0.000	0.000	9.856	21.684	27.598
150	0.000	0.000	6.899	15.770	19.713
155	0.000	0.000	4.928	7.885	12.813
160	0.000	0.000	1.971	5.914	6.899
165	0.000	0.000	0.000	1.971	2.957
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	755.08	N.A.	11.70
0-30	1598.5	N.A.	24.80
0-40	2604.96	N.A.	40.40
0-60	4528.56	N.A.	70.20
0-80	5725.84	N.A.	88.80
0-90	6026.76	N.A.	93.50
10-90	5831.27	N.A.	90.50
20-40	1849.89	N.A.	28.70
20-50	2869.69	N.A.	44.50
40-70	2632.77	N.A.	40.80
60-80	1197.29	N.A.	18.60
70-80	488.11	N.A.	7.60
80-90	300.92	N.A.	4.70
90-110	287.17	N.A.	4.50
90-120	353.01	N.A.	5.50
90-130	390.38	N.A.	6.10
90-150	417.06	N.A.	6.50
90-180	419.85	N.A.	6.50
110-180	132.69	N.A.	2.10
0-180	6446.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	195.49
10-20	559.58
20-30	843.42
30-40	1006.47
40-50	1019.8
50-60	903.79
60-70	709.18
70-80	488.11
80-90	300.92
90-100	179.17
100-110	108.00
110-120	65.84
120-130	37.37
130-140	18.88
140-150	7.80
150-160	2.44
160-170	0.36
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	20.2	21.7	20.7	22.2	22.7	23.6	25.1	24.1	25.6	26.0
	3H	21.4	22.8	21.9	23.3	23.8	25.8	27.2	26.3	27.6	28.2
	4H	21.8	23.1	22.3	23.5	24.1	26.8	28.1	27.3	28.6	29.1
	6H	22.0	23.1	22.5	23.6	24.2	27.9	29.0	28.4	29.5	30.1
	8H	22.0	23.1	22.5	23.6	24.2	28.4	29.5	28.9	30.0	30.6
	12H	22.0	23.1	22.5	23.6	24.2	28.9	30.0	29.5	30.5	31.1

UGR Viewed Endwise

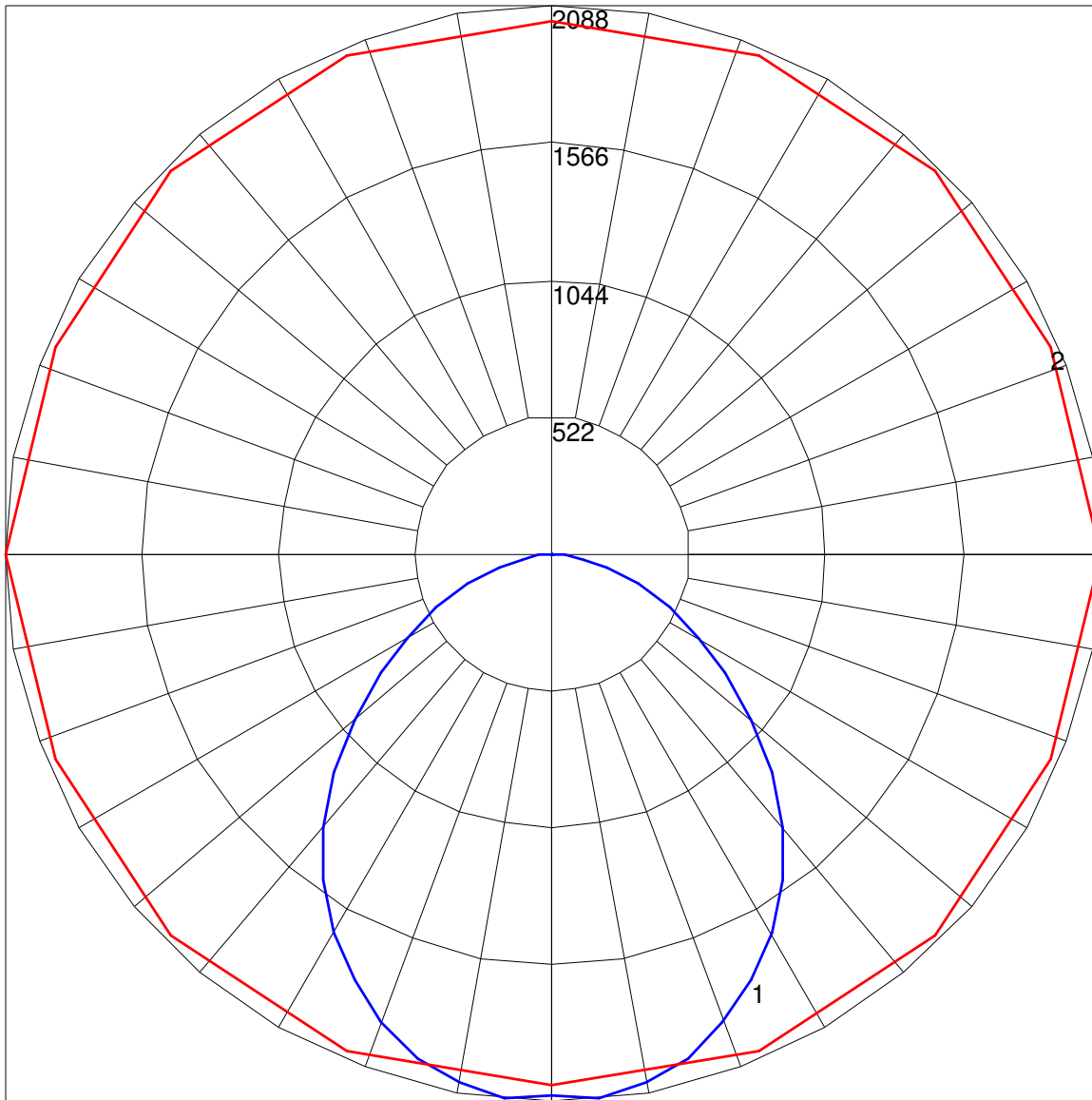
4H	2H	21.3	22.6	21.8	23.1	23.6	23.9	25.2	24.4	25.7	26.2
	3H	22.7	23.8	23.3	24.4	24.9	26.3	27.4	26.9	28.0	28.5
	4H	23.2	24.2	23.7	24.7	25.3	27.5	28.5	28.1	29.1	29.7
	6H	23.5	24.4	24.0	24.9	25.5	28.7	29.6	29.3	30.2	30.8
	8H	23.6	24.4	24.1	24.9	25.6	29.4	30.2	29.9	30.7	31.4
	12H	23.6	24.3	24.2	24.9	25.5	30.0	30.8	30.6	31.4	32.0

8H	4H	24.0	24.8	24.5	25.4	26.0	27.7	28.5	28.3	29.1	29.7
	6H	24.4	25.1	25.0	25.7	26.4	29.0	29.7	29.6	30.3	31.0
	8H	24.6	25.2	25.2	25.8	26.5	29.8	30.4	30.4	31.0	31.7
	12H	24.7	25.2	25.3	25.8	26.5	30.6	31.2	31.2	31.8	32.5

12H	4H	24.2	24.9	24.8	25.5	26.1	27.7	28.4	28.3	29.0	29.6
	6H	24.8	25.4	25.4	26.0	26.7	29.1	29.7	29.7	30.3	31.0
	8H	25.0	25.6	25.6	26.2	26.9	29.9	30.4	30.5	31.0	31.7

Maximum UGR = 32.5

POLAR GRAPH



Maximum Candela = 2087.562 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.)