



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-2-L22-8TW-PSQ02UWN-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-2-L22-8TW-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	2237
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	20
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)	1.88 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	15112	12936	13096
55	12340	11028	11529
65	9991	9217	9713
75	6520	7521	7958
85	3377	6386	6526

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75R-2-L22-8TW-PSQ02UWN-UNV_4000K.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	716.483	716.483	716.483	716.483	716.483
5	724.349	713.747	714.089	712.379	705.197
10	712.379	703.487	705.197	704.171	697.673
15	691.517	685.019	689.807	691.859	685.019
20	660.053	658.343	666.551	669.971	665.867
25	623.118	625.512	637.140	645.006	641.928
30	580.710	584.130	603.966	615.936	615.252
35	529.069	535.225	563.952	580.710	583.104
40	474.007	478.453	514.705	540.013	545.827
45	409.028	420.314	462.037	495.553	503.761
50	341.655	359.780	410.738	447.332	457.591
55	277.017	300.615	358.070	396.374	411.080
60	222.982	244.870	307.455	345.759	361.148
65	171.340	195.280	260.259	295.143	308.481
70	120.041	152.188	215.458	245.896	258.891
75	73.871	114.911	174.076	202.804	214.090
80	41.040	79.343	138.851	165.526	172.708
85	17.442	54.719	110.807	133.721	138.509
90	2.394	37.620	85.841	106.019	112.517
95	0.342	25.650	68.741	84.131	90.971
100	0.000	16.758	53.351	68.741	74.213
105	0.000	11.970	41.382	56.087	60.533
110	0.000	8.208	31.806	45.828	49.590
115	0.000	6.840	25.992	38.304	41.040
120	0.000	5.130	19.836	31.464	34.200
125	0.000	3.078	14.706	24.966	28.044
130	0.000	2.052	10.602	19.494	22.230
135	0.000	1.026	7.866	15.390	17.442
140	0.000	1.026	5.472	11.970	13.680
145	0.000	0.000	3.420	7.524	9.576
150	0.000	0.000	2.394	5.472	6.840
155	0.000	0.000	1.710	2.736	4.446
160	0.000	0.000	0.684	2.052	2.394
165	0.000	0.000	0.000	0.684	1.026
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75R-2-L22-8TW-PSQ02UWN-UNV_4000K.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	262.00	N.A.	11.70
0-30	554.65	N.A.	24.80
0-40	903.88	N.A.	40.40
0-60	1571.33	N.A.	70.20
0-80	1986.77	N.A.	88.80
0-90	2091.18	N.A.	93.50
10-90	2023.35	N.A.	90.50
20-40	641.88	N.A.	28.70
20-50	995.73	N.A.	44.50
40-70	913.53	N.A.	40.80
60-80	415.44	N.A.	18.60
70-80	169.36	N.A.	7.60
80-90	104.41	N.A.	4.70
90-110	99.64	N.A.	4.50
90-120	122.49	N.A.	5.50
90-130	135.46	N.A.	6.10
90-150	144.71	N.A.	6.50
90-180	145.68	N.A.	6.50
110-180	46.04	N.A.	2.10
0-180	2236.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	67.83
10-20	194.17
20-30	292.65
30-40	349.23
40-50	353.85
50-60	313.60
60-70	246.07
70-80	169.36
80-90	104.41
90-100	62.17
100-110	37.47
110-120	22.84
120-130	12.97
130-140	6.55
140-150	2.71
150-160	0.85
160-170	0.12
170-180	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75R-2-L22-8TW-PSQ02UWN-UNV_4000K.IES

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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-2-L22-8TW-PSQ02UWN-UNV_4000K.IES

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	17.9	19.4	18.4	19.9	20.3	21.2	22.7	21.7	23.2	23.7
	3H	19.1	20.5	19.6	20.9	21.5	23.4	24.8	23.9	25.2	25.7
	4H	19.5	20.7	20.0	21.2	21.8	24.4	25.7	24.9	26.2	26.7
	6H	19.6	20.8	20.1	21.3	21.9	25.4	26.6	25.9	27.1	27.7
	8H	19.7	20.8	20.2	21.3	21.9	25.9	27.0	26.4	27.6	28.1
	12H	19.7	20.8	20.2	21.3	21.9	26.4	27.5	27.0	28.0	28.6

UGR Viewed Endwise

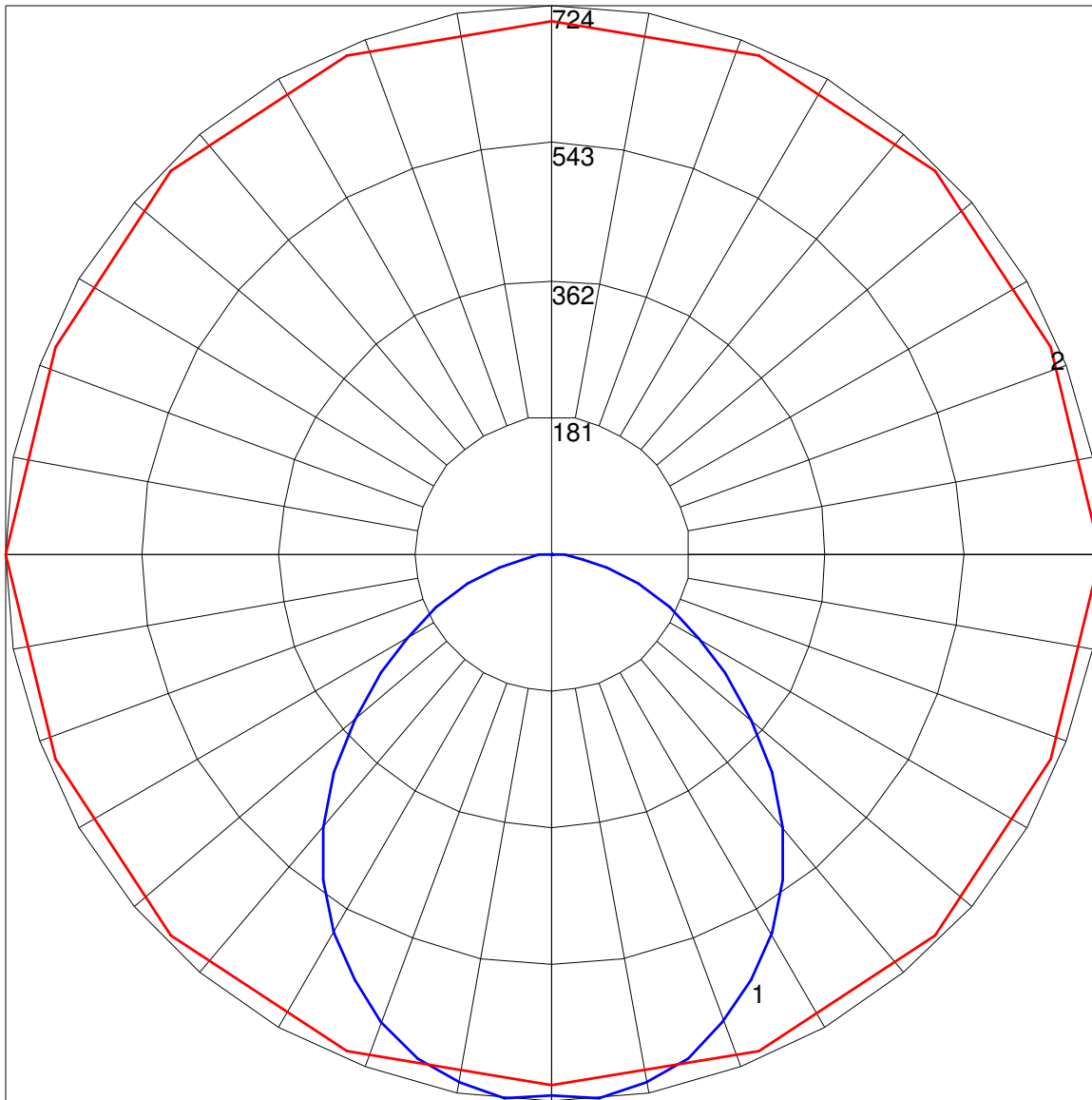
4H	2H	19.0	20.3	19.5	20.7	21.3	21.6	22.8	22.1	23.3	23.9
	3H	20.4	21.5	20.9	22.0	22.6	23.9	25.0	24.5	25.6	26.1
	4H	20.9	21.9	21.4	22.4	23.0	25.1	26.1	25.6	26.6	27.2
	6H	21.2	22.0	21.7	22.6	23.2	26.3	27.2	26.9	27.7	28.3
	8H	21.2	22.0	21.8	22.6	23.2	26.9	27.7	27.5	28.3	28.9
	12H	21.2	22.0	21.8	22.6	23.2	27.5	28.3	28.1	28.9	29.5

8H	4H	21.6	22.4	22.2	23.0	23.6	25.3	26.1	25.8	26.7	27.3
	6H	22.1	22.8	22.7	23.4	24.0	26.6	27.3	27.2	27.9	28.5
	8H	22.2	22.9	22.9	23.5	24.1	27.3	27.9	27.9	28.6	29.2
	12H	22.3	22.9	22.9	23.5	24.2	28.1	28.7	28.7	29.3	30.0

12H	4H	21.8	22.6	22.4	23.1	23.8	25.3	26.0	25.9	26.6	27.2
	6H	22.4	23.0	23.0	23.6	24.3	26.6	27.3	27.3	27.8	28.5
	8H	22.6	23.2	23.2	23.8	24.5	27.4	28.0	28.0	28.6	29.3

Maximum UGR = 30.0

POLAR GRAPH



Maximum Candela = 724.349 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.)