



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-8-L80-8TW-(L60)-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-8-L80-8TW-(L60)-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	6078
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	48
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)	7.44 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	10771	9049	8967
55	8940	7759	7895
65	7432	6534	6651
75	5122	5389	5449
85	3258	4657	4468

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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	1946.707	1946.707	1946.707	1946.707	1946.707
5	1968.079	1939.273	1940.202	1935.556	1916.043
10	1935.556	1911.397	1916.043	1913.255	1895.600
15	1878.874	1861.219	1874.228	1879.803	1861.219
20	1793.386	1788.740	1811.041	1820.334	1809.183
25	1693.031	1699.536	1731.129	1752.501	1744.138
30	1577.808	1587.100	1640.995	1673.518	1671.659
35	1437.497	1454.223	1532.277	1577.808	1584.313
40	1287.893	1299.973	1398.470	1467.232	1483.028
45	1111.342	1142.006	1255.370	1346.434	1368.735
50	928.287	977.535	1115.988	1215.414	1243.291
55	752.665	816.781	972.889	1076.961	1116.917
60	605.849	665.318	835.365	939.437	981.252
65	465.537	530.582	707.133	801.913	838.153
70	326.155	413.501	585.406	668.106	703.416
75	200.711	312.216	472.971	551.025	581.689
80	111.506	215.578	377.262	449.740	469.254
85	47.390	148.675	301.066	363.323	376.332
90	6.505	102.214	233.233	288.057	305.712
95	0.929	69.691	186.772	228.587	247.171
100	0.000	45.532	144.958	186.772	201.640
105	0.000	32.523	112.435	152.391	164.471
110	0.000	22.301	86.417	124.515	134.736
115	0.000	18.584	70.620	104.072	111.506
120	0.000	13.938	53.895	85.488	92.922
125	0.000	8.363	39.956	67.833	76.196
130	0.000	5.575	28.806	52.965	60.399
135	0.000	2.788	21.372	41.815	47.390
140	0.000	2.788	14.867	32.523	37.169
145	0.000	0.000	9.292	20.443	26.018
150	0.000	0.000	6.505	14.867	18.584
155	0.000	0.000	4.646	7.434	12.080
160	0.000	0.000	1.858	5.575	6.505
165	0.000	0.000	0.000	1.858	2.788
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-8-L80-8TW-(L60)-PSQ02UWN-UNV\_4000K.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	711.86	N.A.	11.70
0-30	1507.01	N.A.	24.80
0-40	2455.87	N.A.	40.40
0-60	4269.36	N.A.	70.20
0-80	5398.12	N.A.	88.80
0-90	5681.82	N.A.	93.50
10-90	5497.51	N.A.	90.50
20-40	1744.01	N.A.	28.70
20-50	2705.44	N.A.	44.50
40-70	2482.08	N.A.	40.80
60-80	1128.76	N.A.	18.60
70-80	460.17	N.A.	7.60
80-90	283.70	N.A.	4.70
90-110	270.73	N.A.	4.50
90-120	332.80	N.A.	5.50
90-130	368.03	N.A.	6.10
90-150	393.19	N.A.	6.50
90-180	395.82	N.A.	6.50
110-180	125.09	N.A.	2.10
0-180	6077.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	184.30
10-20	527.56
20-30	795.15
30-40	948.86
40-50	961.43
50-60	852.06
60-70	668.59
70-80	460.17
80-90	283.70
90-100	168.91
100-110	101.82
110-120	62.07
120-130	35.23
130-140	17.80
140-150	7.35
150-160	2.30
160-170	0.34
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	16.7	18.2	17.1	18.6	19.1	20.1	21.6	20.6	22.1	22.5
	3H	17.9	19.2	18.3	19.7	20.2	22.3	23.7	22.8	24.2	24.7
	4H	18.2	19.5	18.7	20.0	20.5	23.4	24.7	23.9	25.1	25.7
	6H	18.4	19.6	18.9	20.1	20.6	24.4	25.6	25.0	26.1	26.7
	8H	18.4	19.5	18.9	20.1	20.6	25.0	26.1	25.5	26.6	27.2
	12H	18.4	19.5	18.9	20.0	20.6	25.6	26.7	26.1	27.2	27.8

### UGR Viewed Endwise

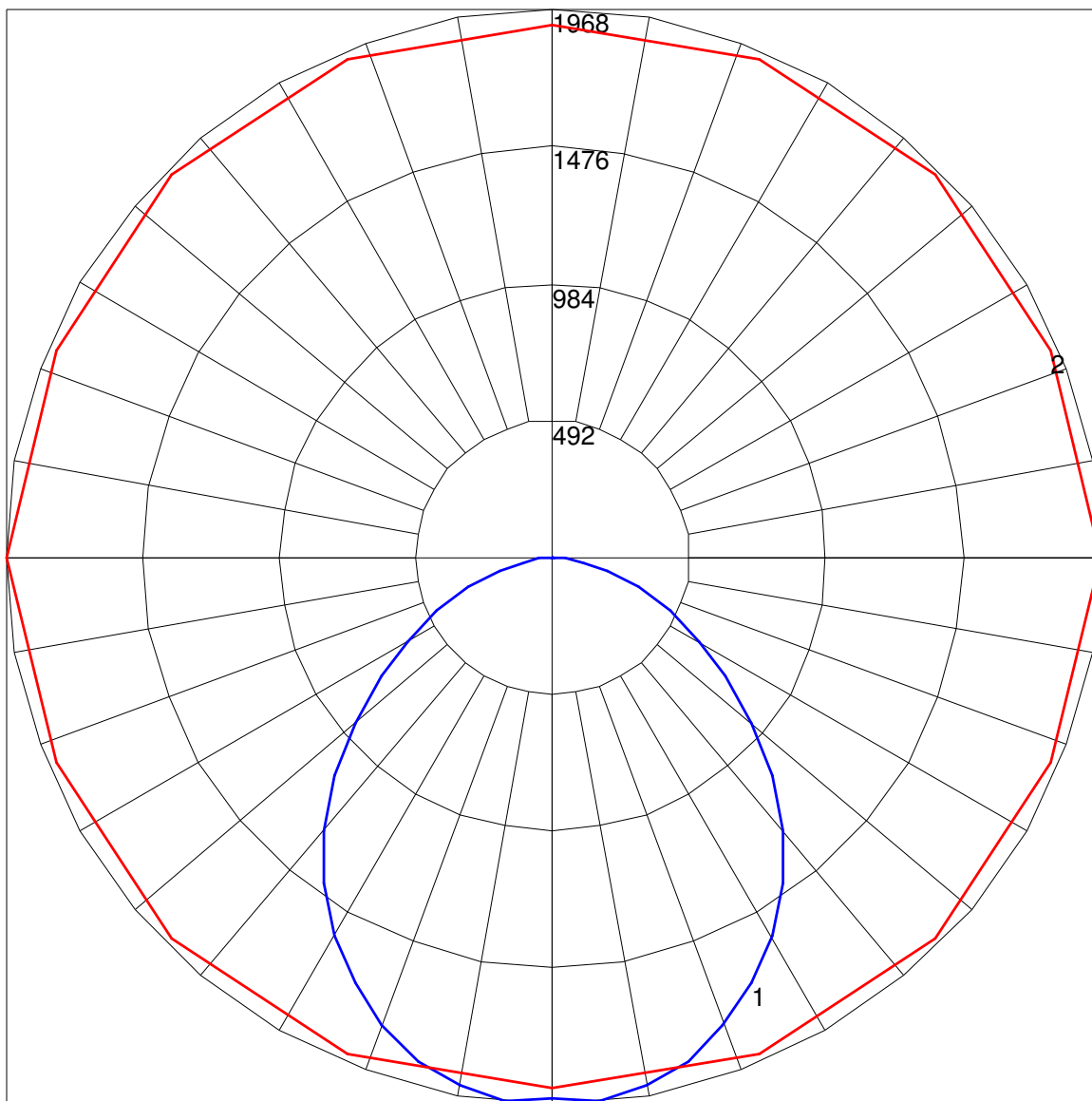
4H	2H	17.7	19.0	18.3	19.5	20.1	20.4	21.7	20.9	22.2	22.7
	3H	19.2	20.3	19.7	20.8	21.4	22.9	24.0	23.4	24.5	25.0
	4H	19.6	20.6	20.2	21.2	21.8	24.1	25.1	24.6	25.6	26.2
	6H	19.9	20.8	20.5	21.4	22.0	25.3	26.2	25.9	26.8	27.4
	8H	20.0	20.8	20.6	21.4	22.0	26.0	26.8	26.5	27.3	28.0
	12H	20.0	20.8	20.6	21.4	22.0	26.7	27.4	27.3	28.0	28.6

8H	4H	20.4	21.2	21.0	21.8	22.4	24.2	25.0	24.8	25.6	26.2
	6H	20.9	21.6	21.5	22.2	22.8	25.6	26.3	26.2	26.9	27.5
	8H	21.0	21.7	21.7	22.3	22.9	26.4	27.0	27.0	27.6	28.3
	12H	21.1	21.7	21.7	22.3	23.0	27.3	27.8	27.9	28.4	29.1

12H	4H	20.6	21.4	21.2	22.0	22.6	24.2	25.0	24.8	25.6	26.2
	6H	21.2	21.8	21.8	22.4	23.1	25.7	26.3	26.3	26.9	27.5
	8H	21.5	22.0	22.1	22.6	23.3	26.5	27.0	27.1	27.6	28.3

Maximum UGR = 29.1

POLAR GRAPH



Maximum Candela = 1968.079 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.)