



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75-2-L20-8FS-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 17875.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 25-OCT-2019

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

[LUMINAIRE] 2' STRIP w/WHITE REFLECTOR

[LUMCAT] 75-2-L20-8FS-DIM-UNV

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2076
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	179
Total Luminaire Watts	11.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.62 ft
Luminous Width (90-270)	0.22 ft
Luminous Height	0.01 ft



### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	21070	20165	19918
55	20525	19431	19068
65	19107	17623	17121
75	16067	14228	13703
85	8321	7980	6664

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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	704.834	704.834	704.834	704.834	704.834
5	709.985	705.570	702.627	700.665	699.930
10	702.137	697.722	694.289	692.327	691.346
15	690.365	684.724	681.291	678.348	679.329
20	671.726	667.067	663.143	660.200	661.917
25	648.183	644.259	638.618	636.166	635.185
30	621.696	616.056	609.679	607.717	602.567
35	587.853	583.193	575.835	574.364	568.969
40	548.613	538.803	534.880	532.182	530.710
45	502.752	490.735	488.283	486.076	484.359
50	451.987	440.951	438.989	438.008	432.367
55	397.788	386.261	384.544	384.544	379.639
60	338.929	328.628	323.724	325.931	318.573
65	273.448	265.846	260.205	264.865	255.055
70	207.232	197.668	194.725	199.630	192.027
75	141.506	132.187	132.187	132.187	129.244
80	75.290	73.819	73.819	72.593	69.650
85	25.260	26.486	28.203	26.977	24.525
90	2.207	2.207	3.433	2.207	2.207
95	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000
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	259.57	N.A.	12.50
0-30	554.77	N.A.	26.70
0-40	915.83	N.A.	44.10
0-60	1638.04	N.A.	78.90
0-80	2040.16	N.A.	98.30
0-90	2075.26	N.A.	100.00
10-90	2008.39	N.A.	96.70
20-40	656.26	N.A.	31.60
20-50	1034.1	N.A.	49.80
40-70	982.68	N.A.	47.30
60-80	402.12	N.A.	19.40
70-80	141.65	N.A.	6.80
80-90	35.10	N.A.	1.70
90-110	0.69	N.A.	0.00
90-120	0.69	N.A.	0.00
90-130	0.69	N.A.	0.00
90-150	0.69	N.A.	0.00
90-180	0.69	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2075.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	66.87
10-20	192.70
20-30	295.21
30-40	361.06
40-50	377.84
50-60	344.37
60-70	260.47
70-80	141.65
80-90	35.10
90-100	0.69
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
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	156	156	156	156	152	152	152	152	145	145	145	139	139	139	134	134	134	131
1	142	136	130	125	139	133	128	123	127	123	119	122	119	116	118	115	112	110
2	129	118	109	102	126	116	108	101	111	104	98	107	101	96	103	98	94	91
3	118	104	93	84	114	102	92	84	98	89	82	94	87	81	91	85	79	76
4	108	92	80	71	105	90	79	71	87	77	70	84	76	69	81	74	68	65
5	99	82	70	61	96	80	69	61	78	68	60	75	66	60	73	65	59	56
6	91	74	62	53	89	72	61	53	70	60	53	68	59	52	66	58	52	49
7	85	67	55	47	82	66	55	47	64	54	46	62	53	46	60	52	46	43
8	79	61	50	42	77	60	49	42	58	48	41	56	48	41	55	47	41	38
9	73	56	45	38	72	55	45	37	53	44	37	52	43	37	51	43	37	34
10	69	51	41	34	67	51	41	34	49	40	34	48	40	34	47	39	33	31

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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

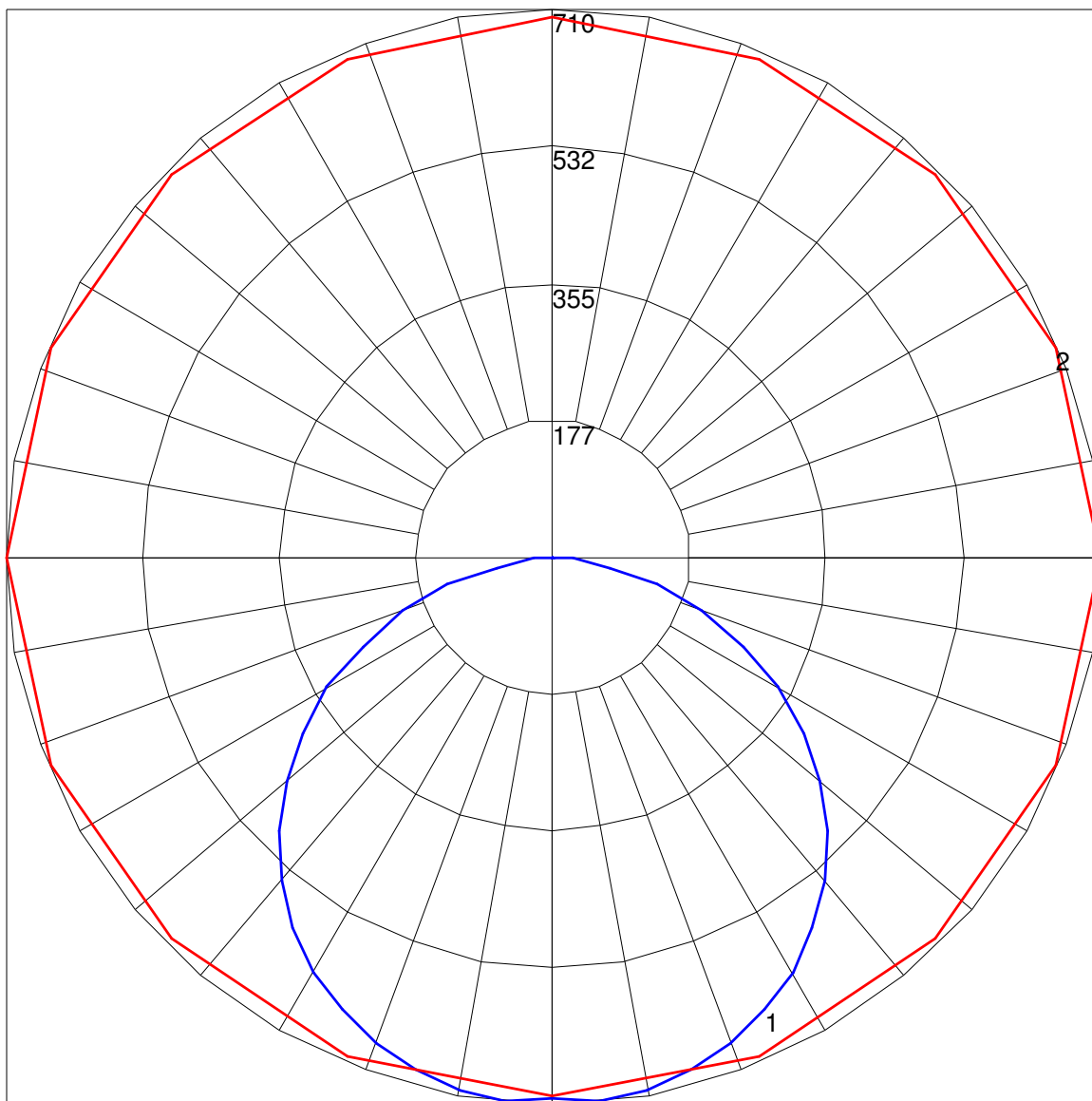
X=2H	Y=2H	21.7	23.4	22.1	23.7	24.0	21.6	23.3	22.0	23.6	23.9
	3H	23.5	25.0	23.9	25.3	25.7	23.4	24.8	23.7	25.2	25.5
	4H	24.1	25.6	24.5	25.9	26.3	23.9	25.4	24.3	25.7	26.1
	6H	24.6	25.9	25.0	26.2	26.6	24.3	25.6	24.7	26.0	26.4
	8H	24.7	25.9	25.1	26.3	26.7	24.4	25.7	24.9	26.1	26.5
	12H	24.7	25.9	25.2	26.3	26.7	24.5	25.7	24.9	26.1	26.5

UGR Viewed Endwise

4H	2H	22.3	23.7	22.7	24.1	24.4	22.2	23.6	22.6	24.0	24.3
	3H	24.3	25.5	24.7	25.9	26.3	24.2	25.4	24.6	25.8	26.2
	4H	25.0	26.1	25.5	26.5	26.9	24.9	26.0	25.3	26.4	26.8
	6H	25.6	26.5	26.0	26.9	27.4	25.4	26.3	25.8	26.8	27.2
	8H	25.7	26.6	26.2	27.0	27.5	25.5	26.4	26.0	26.8	27.3
	12H	25.8	26.6	26.3	27.0	27.5	25.6	26.4	26.1	26.9	27.3
8H	4H	25.3	26.2	25.7	26.6	27.1	25.2	26.0	25.6	26.5	26.9
	6H	25.9	26.6	26.4	27.1	27.6	25.7	26.5	26.2	27.0	27.4
	8H	26.1	26.8	26.6	27.3	27.7	26.0	26.6	26.5	27.1	27.6
	12H	26.2	26.8	26.7	27.3	27.9	26.1	26.6	26.6	27.1	27.7
12H	4H	25.3	26.1	25.8	26.6	27.0	25.2	26.0	25.7	26.4	26.9
	6H	26.0	26.6	26.5	27.1	27.6	25.8	26.5	26.3	26.9	27.4
	8H	26.2	26.8	26.7	27.2	27.8	26.0	26.6	26.5	27.1	27.6

Maximum UGR = 27.9

POLAR GRAPH



Maximum Candela = 709.985 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.)