



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PXX-42-03-08-L13-835-S-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]GEN FROM BALLABS TEST NO. 20584.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUEDATE] 03-20-2020  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836  
 [LUMINAIRE] 3'8" PERIMETER LUMINAIRE  
 [MORE] WHITE ASYM REFLECTOR w/OPEN BOTTOM  
 [LUMCAT] PXX-42-03-08-L13-835-S-xxxx-xxxx-xxx-xxx  
 [LAMPCAT] HLM 80 CRI, 3500K CCT  
 [ SEARCH\_SOURCETYPE] LED  
 [ SEARCH\_APPLICATION] Indoor,Perimeter, Corridor, Healthcare, Indirect  
 [ SEARCH\_MOUNTING] Wall, Recessed

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5001
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	51.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.33 ft
Luminous Width (90-270)	3.69 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13344	17081	20255
55	10750	13358	20258
65	8365	10278	19614
75	5082	6667	17529
85	0	1108	4846

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
<b>0</b>	2228.163	2228.163	2228.163	2228.163	2228.163	2228.163	2228.163	2228.163	2228.163
<b>5</b>	2168.911	2186.824	2210.250	2243.321	2279.148	2257.100	2251.588	2155.131	2214.383
<b>10</b>	2123.438	2139.973	2170.289	2219.895	2266.746	2240.565	2224.029	2126.194	2179.934
<b>15</b>	2058.674	2079.343	2116.548	2164.777	2226.785	2196.470	2173.045	2068.320	2108.280
<b>20</b>	1989.776	2010.445	2042.138	2101.391	2168.911	2134.462	2093.123	1963.594	1971.862
<b>25</b>	1913.988	1934.657	1960.839	2022.847	2097.257	2055.918	1978.752	1765.168	1723.829
<b>30</b>	1829.932	1840.956	1858.869	1922.256	2003.555	1955.327	1806.507	1419.300	1271.858
<b>35</b>	1577.765	1685.246	1755.522	1802.373	1898.830	1835.444	1496.466	971.463	814.375
<b>40</b>	1304.929	1382.095	1632.884	1682.490	1778.948	1679.735	1106.503	563.586	835.044
<b>45</b>	1077.566	1150.597	1379.339	1544.694	1635.640	1495.088	704.138	367.916	350.002
<b>50</b>	875.005	930.124	1106.503	1379.339	1495.088	1253.945	646.264	304.529	300.396
<b>55</b>	704.138	738.587	875.005	1216.740	1326.976	932.880	292.128	259.057	267.324
<b>60</b>	541.539	581.500	672.445	985.242	1150.597	569.098	237.009	243.899	259.057
<b>65</b>	403.743	427.168	496.066	700.004	946.659	319.687	205.316	228.742	241.143
<b>70</b>	261.813	278.348	344.490	454.727	741.343	173.623	184.647	195.670	198.426
<b>75</b>	150.198	161.221	197.048	275.592	518.113	125.394	146.064	147.442	144.686
<b>80</b>	59.252	71.654	88.190	129.528	265.946	95.079	92.323	89.567	85.434
<b>85</b>	0.000	2.756	11.024	26.181	48.229	34.449	33.071	28.937	31.693
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	1.378	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	814.20	N.A.	16.30
0-30	1709.86	N.A.	34.20
0-40	2697.72	N.A.	53.90
0-60	4272.47	N.A.	85.40
0-80	4957.05	N.A.	99.10
0-90	5001.5	N.A.	100.00
10-90	4790.38	N.A.	95.80
20-40	1883.52	N.A.	37.70
20-50	2765.49	N.A.	55.30
40-70	2030.41	N.A.	40.60
60-80	684.58	N.A.	13.70
70-80	228.92	N.A.	4.60
80-90	44.45	N.A.	0.90
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5001.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	211.11
10-20	603.09
20-30	895.66
30-40	987.86
40-50	881.97
50-60	692.78
60-70	455.66
70-80	228.92
80-90	44.45
90-100	0.00
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	394	394	394	394	384	384	384	384	367	367	367	352	352	352	337	337	337	331
1	364	350	337	326	355	342	331	321	328	319	311	316	308	301	304	298	292	286
2	334	309	289	272	326	303	285	269	292	276	263	281	268	257	271	261	251	244
3	307	275	250	231	299	270	247	229	260	241	225	252	235	221	243	229	217	210
4	283	246	219	199	276	242	217	198	234	212	195	226	208	192	220	203	190	183
5	262	222	194	174	255	218	192	173	212	189	171	205	185	169	199	182	168	161
6	243	201	174	154	237	198	172	153	193	169	152	187	166	150	182	164	149	143
7	226	184	156	137	220	181	155	137	176	153	136	172	150	135	167	148	134	128
8	211	169	142	123	206	166	141	123	162	139	122	158	137	122	154	135	121	115
9	198	155	129	112	193	153	129	112	150	127	111	146	126	111	143	124	110	104
10	186	144	119	102	182	142	118	102	139	117	102	136	116	101	133	114	101	95

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**UGR TABLE - CORRECTED**

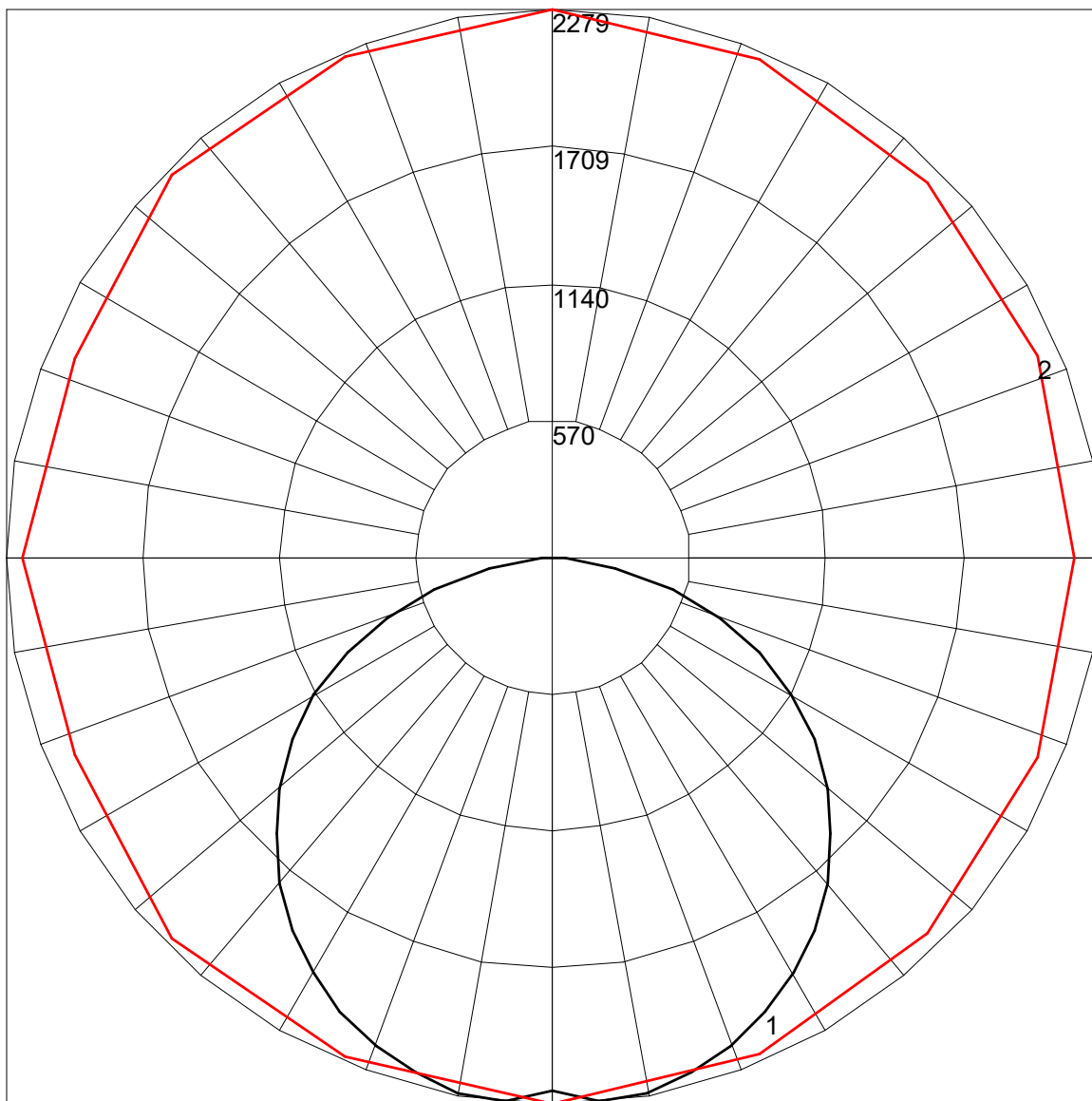
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	15.5	17.0	15.9	17.3	17.6	18.4	19.9	18.8	20.2	20.6
	3H	16.6	18.0	17.0	18.3	18.7	20.1	21.5	20.5	21.8	22.1
	4H	16.9	18.2	17.3	18.6	18.9	20.8	22.1	21.2	22.5	22.8
	6H	17.1	18.2	17.5	18.6	19.0	21.3	22.5	21.8	22.9	23.3
	8H	17.0	18.2	17.5	18.6	19.0	21.5	22.6	21.9	23.0	23.4
	12H	17.0	18.1	17.5	18.5	18.9	21.5	22.6	21.9	22.9	23.4
4H	2H	16.2	17.5	16.6	17.8	18.2	18.4	19.7	18.8	20.1	20.4
	3H	17.5	18.5	17.9	18.9	19.3	20.3	21.3	20.7	21.7	22.1
	4H	17.8	18.8	18.3	19.2	19.6	21.0	22.0	21.4	22.4	22.8
	6H	18.0	18.8	18.5	19.3	19.7	21.6	22.4	22.1	22.9	23.3
	8H	18.0	18.8	18.5	19.2	19.7	21.8	22.6	22.2	23.0	23.5
	12H	18.0	18.7	18.5	19.2	19.6	21.8	22.5	22.3	23.0	23.5
8H	4H	18.1	18.9	18.6	19.3	19.8	21.0	21.8	21.5	22.2	22.7
	6H	18.3	19.0	18.8	19.4	19.9	21.6	22.3	22.1	22.8	23.2
	8H	18.3	18.9	18.8	19.4	19.9	21.8	22.4	22.3	22.9	23.4
	12H	18.3	18.8	18.8	19.3	19.9	21.9	22.4	22.4	22.9	23.5
12H	4H	18.1	18.8	18.6	19.3	19.8	21.0	21.7	21.5	22.2	22.6
	6H	18.3	18.9	18.9	19.4	19.9	21.6	22.2	22.1	22.6	23.2
	8H	18.4	18.9	18.9	19.4	19.9	21.8	22.3	22.3	22.8	23.4

Maximum UGR = 23.5

POLAR GRAPH



Maximum Candela = 2279.148 Located At Horizontal Angle = 90, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)