



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AP-24-L30-830-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM LLI-20113-2  
 [TESTLAB] LightLab International (www.LightLabInt.com)  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] AP-24-L30-830-DIM-UNV\_  
 [LUMINAIRE] RECESSED 2 X 4 ARCHED CENTER LED LUMINAIRE  
 [MORE] White steel fabricated housing with frosted white concave lens.  
 [MORE] 360 LEDs with 180 mounted along each long side of clear plastic sheet.  
 [ISSUE DATE] 2023-10-24  
 [SEARCH\_SOURCETYPE] LED  
 [SEARCH\_APPLICATION] Indoor, Architectural, Direct-Indirect  
 [SEARCH\_MOUNTING] Recessed  
 [CONVERT] Photometric web converted from original test data

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3050
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	26.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.16 m
Luminous Width (90-270)	0.57 m
Luminous Height	0.00 m

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1493	1498	1512
55	1441	1450	1473
65	1360	1376	1400
75	1226	1235	1280
85	940	896	927

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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>
<b>0</b>	1048.893	1048.893	1048.893	1048.893	1048.893
<b>5</b>	1046.136	1045.601	1044.662	1043.325	1041.555
<b>10</b>	1031.238	1031.045	1030.714	1029.883	1028.083
<b>15</b>	1007.454	1007.309	1007.357	1007.544	1006.135
<b>20</b>	975.170	975.290	975.549	976.777	975.946
<b>25</b>	934.844	935.000	935.771	937.571	937.595
<b>30</b>	887.240	887.390	888.450	890.900	891.406
<b>35</b>	831.889	832.292	833.701	836.482	837.975
<b>40</b>	770.114	770.596	772.239	775.466	777.627
<b>45</b>	702.080	702.519	704.307	708.135	710.983
<b>50</b>	628.482	629.054	631.197	635.357	639.017
<b>55</b>	549.727	550.503	553.013	557.642	561.886
<b>60</b>	467.359	468.099	471.031	476.123	480.127
<b>65</b>	382.228	383.173	386.574	389.632	393.322
<b>70</b>	296.026	296.989	299.210	301.931	306.072
<b>75</b>	211.033	212.123	212.574	216.090	220.261
<b>80</b>	129.508	129.472	130.080	132.295	135.329
<b>85</b>	54.496	53.022	51.938	52.359	53.744
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	383.54	N.A.	12.60
0-30	815.04	N.A.	26.70
0-40	1337.00	N.A.	43.80
0-60	2376.32	N.A.	77.90
0-80	2985.69	N.A.	97.90
0-90	3050.14	N.A.	100.00
10-90	2950.89	N.A.	96.70
20-40	953.46	N.A.	31.30
20-50	1497.51	N.A.	49.10
40-70	1422.00	N.A.	46.60
60-80	609.37	N.A.	20.00
70-80	226.69	N.A.	7.40
80-90	64.45	N.A.	2.10
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	3050.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	99.24
10-20	284.30
20-30	431.50
30-40	521.96
40-50	544.05
50-60	495.27
60-70	382.68
70-80	226.69
80-90	64.45
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	75	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	46	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

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**UGR TABLE - CORRECTED**

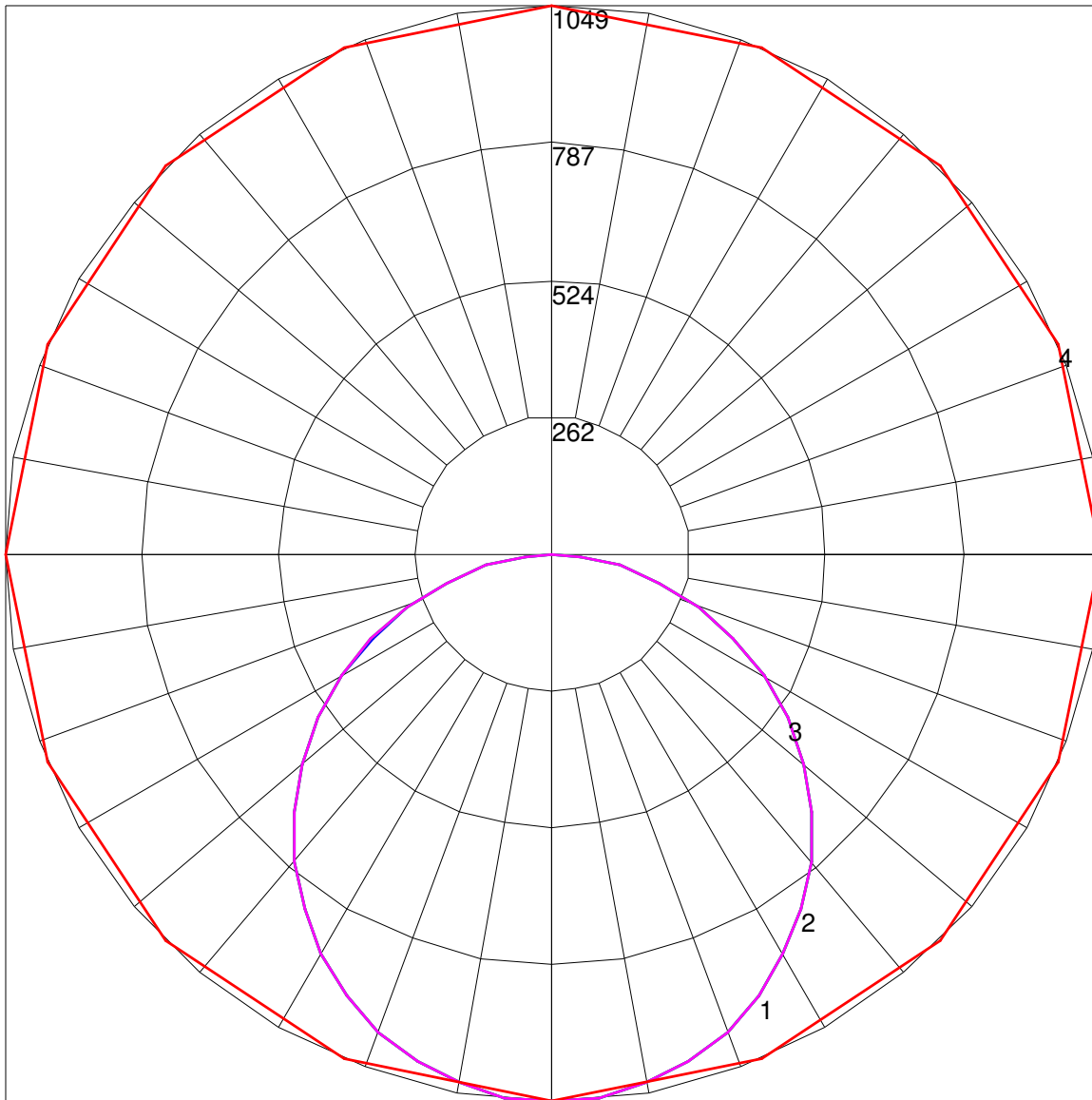
Reflectances

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	13.4	15.1	13.8	15.4	15.7	13.6	15.2	13.9	15.5	15.8
	3H	15.3	16.8	15.7	17.1	17.5	15.4	16.9	15.8	17.3	17.6
	4H	16.0	17.4	16.4	17.8	18.2	16.2	17.6	16.6	17.9	18.3
	6H	16.6	17.9	17.0	18.2	18.6	16.7	18.0	17.1	18.4	18.8
	8H	16.7	18.0	17.2	18.4	18.8	16.9	18.2	17.3	18.6	19.0
	12H	16.8	18.1	17.3	18.4	18.9	17.0	18.2	17.4	18.6	19.0
4H	2H	14.1	15.5	14.5	15.9	16.2	14.2	15.6	14.6	16.0	16.3
	3H	16.2	17.4	16.6	17.8	18.2	16.3	17.5	16.7	17.9	18.3
	4H	17.0	18.1	17.5	18.5	19.0	17.2	18.2	17.6	18.7	19.1
	6H	17.7	18.7	18.2	19.1	19.5	17.9	18.8	18.3	19.2	19.7
	8H	18.0	18.8	18.4	19.3	19.7	18.1	19.0	18.6	19.4	19.9
	12H	18.1	18.9	18.6	19.4	19.8	18.3	19.0	18.7	19.5	20.0
8H	4H	17.4	18.3	17.9	18.7	19.2	17.5	18.4	18.0	18.8	19.3
	6H	18.2	18.9	18.7	19.4	19.9	18.3	19.0	18.8	19.5	20.0
	8H	18.5	19.1	19.0	19.6	20.1	18.6	19.3	19.1	19.8	20.3
	12H	18.7	19.3	19.2	19.8	20.3	18.8	19.4	19.3	19.9	20.5
12H	4H	17.4	18.2	17.9	18.7	19.2	17.5	18.3	18.0	18.8	19.3
	6H	18.3	18.9	18.8	19.4	19.9	18.4	19.1	18.9	19.5	20.0
	8H	18.6	19.2	19.1	19.7	20.2	18.7	19.3	19.2	19.8	20.4

Maximum UGR = 20.5

POLAR GRAPH



Maximum Candela = 1048.893 Located At Horizontal Angle = 0, Vertical Angle = 0

# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

# 2 - Vertical Plane Through Horizontal Angles (5 - 185)

# 3 - Vertical Plane Through Horizontal Angles (10 - 190)

# 4 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)