



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AP-24-L30-835-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-L30-835-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	3081
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
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	1508	1513	1527
55	1456	1465	1488
65	1374	1390	1414
75	1239	1248	1293
85	950	905	937

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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	1059.488	1059.488	1059.488	1059.488	1059.488
5	1056.703	1056.162	1055.214	1053.864	1052.076
10	1041.654	1041.459	1041.125	1040.286	1038.468
15	1017.630	1017.484	1017.533	1017.721	1016.298
20	985.020	985.142	985.403	986.644	985.804
25	944.287	944.445	945.223	947.041	947.065
30	896.202	896.354	897.424	899.899	900.410
35	840.291	840.699	842.122	844.931	846.439
40	777.893	778.380	780.040	783.299	785.482
45	709.171	709.615	711.421	715.288	718.164
50	634.831	635.408	637.573	641.775	645.472
55	555.279	556.064	558.599	563.275	567.562
60	472.079	472.827	475.789	480.933	484.976
65	386.089	387.043	390.479	393.568	397.295
70	299.016	299.989	302.232	304.981	309.164
75	213.165	214.265	214.721	218.272	222.486
80	130.816	130.780	131.394	133.632	136.696
85	55.047	53.557	52.463	52.888	54.287
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	387.41	N.A.	12.60
0-30	823.27	N.A.	26.70
0-40	1350.51	N.A.	43.80
0-60	2400.32	N.A.	77.90
0-80	3015.84	N.A.	97.90
0-90	3080.95	N.A.	100.00
10-90	2980.7	N.A.	96.70
20-40	963.09	N.A.	31.30
20-50	1512.63	N.A.	49.10
40-70	1436.36	N.A.	46.60
60-80	615.52	N.A.	20.00
70-80	228.97	N.A.	7.40
80-90	65.10	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	3080.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	100.24
10-20	287.17
20-30	435.86
30-40	527.23
40-50	549.54
50-60	500.28
60-70	386.55
70-80	228.97
80-90	65.10
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	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

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UGR TABLE - CORRECTED

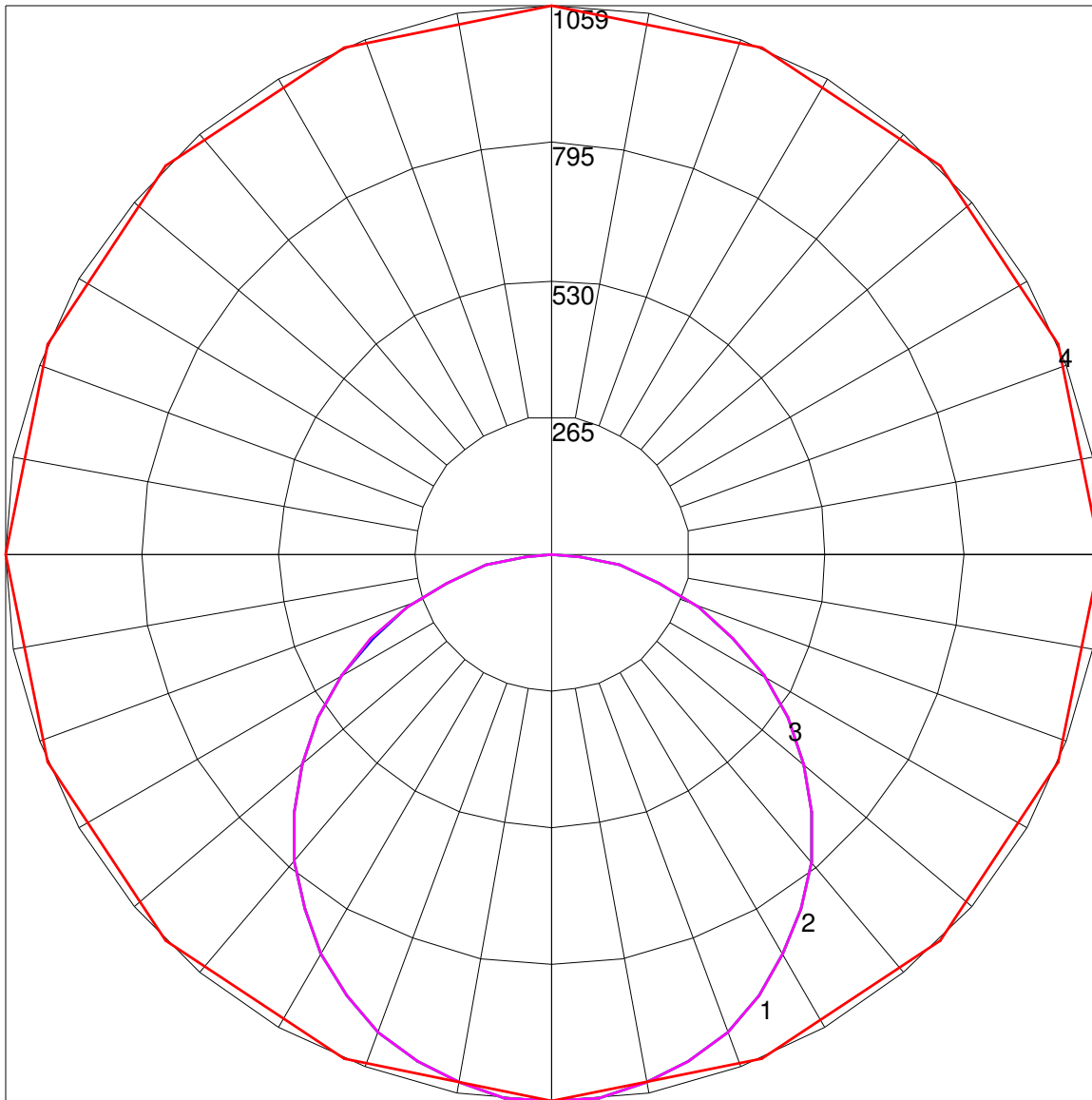
Reflectances

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 = 1059.488 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.)