



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AP-24-L30-850-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-L30-850-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	3266
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
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	1599	1604	1619
55	1543	1552	1577
65	1456	1473	1499
75	1313	1323	1370
85	1007	960	993

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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	1123.057	1123.057	1123.057	1123.057	1123.057
5	1120.105	1119.532	1118.526	1117.095	1115.201
10	1104.153	1103.947	1103.592	1102.703	1100.776
15	1078.688	1078.533	1078.585	1078.784	1077.276
20	1044.121	1044.250	1044.527	1045.842	1044.953
25	1000.944	1001.111	1001.936	1003.864	1003.889
30	949.974	950.135	951.269	953.893	954.434
35	890.709	891.141	892.649	895.627	897.225
40	824.567	825.082	826.842	830.297	832.611
45	751.721	752.192	754.106	758.205	761.254
50	672.921	673.533	675.827	680.281	684.200
55	588.596	589.427	592.115	597.072	601.616
60	500.404	501.197	504.336	509.789	514.075
65	409.254	410.266	413.908	417.182	421.133
70	316.957	317.988	320.366	323.280	327.714
75	225.955	227.121	227.605	231.369	235.835
80	138.665	138.627	139.278	141.649	144.898
85	58.350	56.771	55.610	56.062	57.544
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	410.66	N.A.	12.60
0-30	872.67	N.A.	26.70
0-40	1431.54	N.A.	43.80
0-60	2544.34	N.A.	77.90
0-80	3196.79	N.A.	97.90
0-90	3265.8	N.A.	100.00
10-90	3159.54	N.A.	96.70
20-40	1020.88	N.A.	31.30
20-50	1603.39	N.A.	49.10
40-70	1522.54	N.A.	46.60
60-80	652.45	N.A.	20.00
70-80	242.71	N.A.	7.40
80-90	69.01	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	3265.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	106.26
10-20	304.40
20-30	462.01
30-40	558.87
40-50	582.51
50-60	530.29
60-70	409.74
70-80	242.71
80-90	69.01
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	89	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

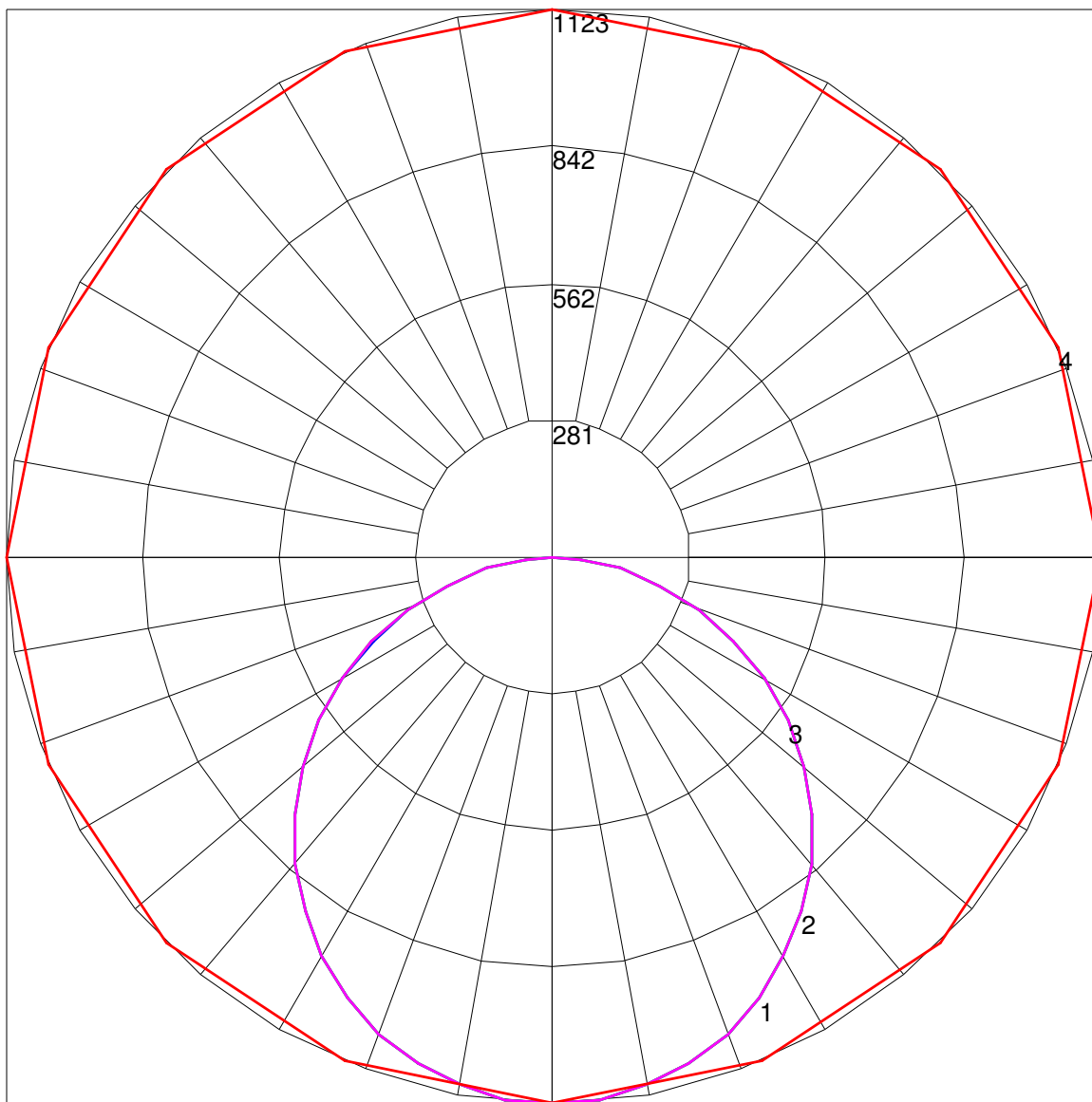
Reflectances

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	13.6	15.3	14.0	15.6	15.9	13.8	15.4	14.1	15.7	16.0
	3H	15.5	17.0	15.9	17.3	17.7	15.6	17.1	16.0	17.5	17.8
	4H	16.2	17.6	16.6	18.0	18.4	16.4	17.8	16.8	18.1	18.5
	6H	16.8	18.1	17.2	18.4	18.8	16.9	18.2	17.3	18.6	19.0
	8H	16.9	18.2	17.4	18.6	19.0	17.1	18.4	17.5	18.8	19.2
	12H	17.0	18.3	17.5	18.6	19.1	17.2	18.4	17.6	18.8	19.2
4H	2H	14.3	15.7	14.7	16.1	16.4	14.4	15.8	14.8	16.2	16.5
	3H	16.4	17.6	16.8	18.0	18.4	16.5	17.7	16.9	18.1	18.5
	4H	17.2	18.3	17.7	18.7	19.2	17.4	18.4	17.8	18.9	19.3
	6H	17.9	18.9	18.4	19.3	19.7	18.1	19.0	18.5	19.4	19.9
	8H	18.1	19.0	18.6	19.5	19.9	18.3	19.2	18.8	19.6	20.1
	12H	18.3	19.1	18.8	19.6	20.0	18.5	19.2	18.9	19.7	20.2
8H	4H	17.6	18.5	18.1	18.9	19.4	17.7	18.6	18.2	19.0	19.5
	6H	18.4	19.1	18.9	19.6	20.1	18.5	19.2	19.0	19.7	20.2
	8H	18.7	19.3	19.2	19.8	20.3	18.8	19.5	19.3	20.0	20.5
	12H	18.9	19.5	19.4	20.0	20.5	19.0	19.6	19.5	20.1	20.7
12H	4H	17.6	18.4	18.1	18.9	19.4	17.7	18.5	18.2	19.0	19.5
	6H	18.5	19.1	19.0	19.6	20.1	18.6	19.2	19.1	19.7	20.2
	8H	18.8	19.4	19.3	19.9	20.4	18.9	19.5	19.4	20.0	20.6

Maximum UGR = 20.7

POLAR GRAPH



Maximum Candela = 1123.057 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.)