



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIS-24-L50-840-AD-(L25)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 19231.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 22-NOV-2019
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2x4'RECESSED WHITE LUMINAIRE w/A-SHAPED
 [MORE] CENTER REFL, FROST ACRYLIC LINEAR RIBBED DIFFUSER
 [LUMCAT] DIS-24-L50-840-AD-(L25)-DIM-UNV
 [LAMPCAT] HLM 80 CRI 4000K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2588
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	20
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.10
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.91 ft
Luminous Width (90-270)	1.88 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1174	1299	1378
55	1020	1194	1302
65	919	1193	1428
75	752	1022	920
85	630	697	764

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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	940.657	940.657	940.657	940.657	940.657
5	929.515	929.250	929.250	929.780	929.780
10	920.761	921.292	922.618	925.006	926.067
15	884.419	885.745	890.785	894.764	896.091
20	867.441	868.237	876.991	884.419	886.806
25	780.167	785.737	797.940	807.755	812.265
30	662.651	710.400	765.842	748.599	730.030
35	663.712	676.710	700.054	719.685	726.582
40	605.617	621.799	653.101	676.710	684.669
45	565.296	586.783	625.778	654.427	663.447
50	480.939	503.487	545.135	573.785	582.539
55	398.439	423.110	466.349	497.917	508.528
60	320.980	346.446	389.420	427.885	441.148
65	264.477	292.596	343.263	392.073	410.907
70	197.893	227.073	282.250	300.819	278.006
75	132.636	159.959	180.120	163.408	162.082
80	82.235	103.987	102.926	96.559	95.498
85	37.403	42.974	41.383	42.974	45.362
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	341.84	N.A.	13.20
0-30	710.63	N.A.	27.50
0-40	1145.7	N.A.	44.30
0-60	2027.74	N.A.	78.40
0-80	2538.21	N.A.	98.10
0-90	2587.88	N.A.	100.00
10-90	2499.25	N.A.	96.60
20-40	803.86	N.A.	31.10
20-50	1273.09	N.A.	49.20
40-70	1211.72	N.A.	46.80
60-80	510.48	N.A.	19.70
70-80	180.80	N.A.	7.00
80-90	49.66	N.A.	1.90
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	2587.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	88.63
10-20	253.21
20-30	368.80
30-40	435.06
40-50	469.23
50-60	412.81
60-70	329.68
70-80	180.80
80-90	49.66
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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

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UGR TABLE - CORRECTED

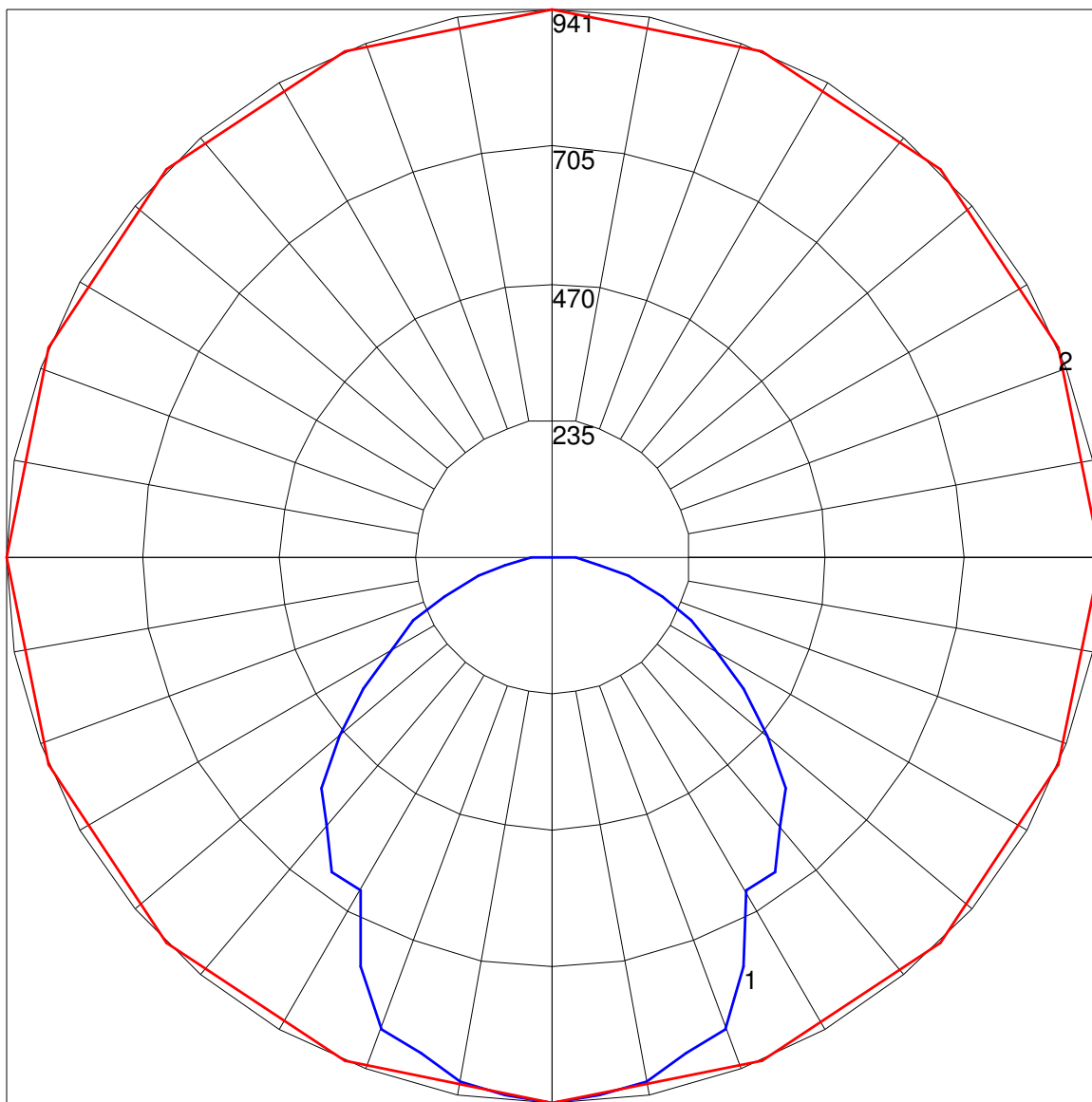
Reflectances

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	11.9	13.5	12.2	13.8	14.1	13.3	14.9	13.6	15.2	15.6
	3H	13.6	15.1	14.0	15.5	15.8	15.4	16.9	15.8	17.3	17.6
	4H	14.2	15.7	14.6	16.0	16.4	16.0	17.4	16.3	17.7	18.1
	6H	14.7	16.0	15.1	16.4	16.8	16.3	17.6	16.7	18.0	18.4
	8H	14.9	16.1	15.3	16.5	16.9	16.4	17.7	16.8	18.1	18.4
	12H	15.0	16.2	15.4	16.5	17.0	16.5	17.7	16.9	18.1	18.5
4H	2H	12.8	14.2	13.2	14.6	15.0	13.9	15.3	14.3	15.7	16.0
	3H	14.8	16.0	15.2	16.4	16.8	16.3	17.5	16.7	17.9	18.3
	4H	15.5	16.6	16.0	17.0	17.5	16.9	17.9	17.3	18.4	18.8
	6H	16.2	17.1	16.6	17.5	18.0	17.3	18.3	17.8	18.7	19.2
	8H	16.3	17.2	16.8	17.7	18.1	17.5	18.4	18.0	18.8	19.3
	12H	16.5	17.3	17.0	17.7	18.2	17.6	18.4	18.1	18.9	19.3
8H	4H	16.0	16.9	16.5	17.3	17.8	17.1	18.0	17.6	18.5	18.9
	6H	16.7	17.5	17.2	17.9	18.4	17.7	18.4	18.2	18.9	19.4
	8H	17.0	17.7	17.5	18.2	18.7	17.9	18.6	18.4	19.1	19.6
	12H	17.2	17.8	17.7	18.3	18.9	18.1	18.7	18.6	19.2	19.7
12H	4H	16.0	16.8	16.5	17.3	17.8	17.2	18.0	17.6	18.4	18.9
	6H	16.8	17.5	17.3	17.9	18.5	17.8	18.4	18.3	18.9	19.4
	8H	17.1	17.7	17.6	18.2	18.8	18.0	18.6	18.5	19.1	19.6

Maximum UGR = 19.7

POLAR GRAPH



Maximum Candela = 940.657 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)