



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S22-L48-930-AD-EM10W-(L35)-DIM-UNV_(EMER MODE).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM BALLABS TEST NO. 19231.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 10-04-2022
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] 2x2'RECESSED LED TROFFER
 [MORE] WITH FROST ACRYLIC DIFFUSER
 [LUMCAT] DIG-S22-L48-930-AD-EM10W-(L35)-DIM-UNV
 [LAMPCAT] HLM 90 CRI, 3000K CCT
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Architectural, Classroom, Commercial, Educational, Office, Direct, Indirect
 [_SEARCH_MOUNTING] Ceiling, Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1040
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	10
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)	1.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	937	1037	1100
55	814	953	1039
65	734	952	1140
75	601	816	734
85	503	557	610

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	378.007	378.007	378.007	378.007	378.007
5	373.530	373.424	373.424	373.637	373.637
10	370.012	370.226	370.759	371.718	372.144
15	355.408	355.941	357.966	359.565	360.099
20	348.586	348.905	352.423	355.408	356.367
25	313.514	315.752	320.656	324.600	326.413
30	266.290	285.478	307.757	300.828	293.366
35	266.716	271.939	281.320	289.209	291.980
40	243.370	249.873	262.452	271.939	275.137
45	227.167	235.802	251.472	262.985	266.609
50	193.268	202.329	219.065	230.578	234.096
55	160.115	170.029	187.405	200.090	204.354
60	128.987	139.221	156.490	171.948	177.278
65	106.281	117.581	137.942	157.556	165.125
70	79.524	91.251	113.424	120.886	111.718
75	53.301	64.280	72.382	65.666	65.133
80	33.046	41.788	41.361	38.803	38.376
85	15.031	17.269	16.630	17.269	18.229
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	137.37	N.A.	13.20
0-30	285.57	N.A.	27.50
0-40	460.40	N.A.	44.30
0-60	814.86	N.A.	78.40
0-80	1019.99	N.A.	98.10
0-90	1039.95	N.A.	100.00
10-90	1004.33	N.A.	96.60
20-40	323.04	N.A.	31.10
20-50	511.60	N.A.	49.20
40-70	486.93	N.A.	46.80
60-80	205.14	N.A.	19.70
70-80	72.66	N.A.	7.00
80-90	19.96	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	1039.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	35.62
10-20	101.75
20-30	148.20
30-40	174.83
40-50	188.56
50-60	165.89
60-70	132.48
70-80	72.66
80-90	19.96
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

X=2H	Y=2H	11.1	12.7	11.4	13.0	13.3	12.5	14.1	12.8	14.4	14.7
	3H	12.8	14.3	13.2	14.6	15.0	14.6	16.1	15.0	16.4	16.8
	4H	13.4	14.8	13.8	15.2	15.6	15.1	16.5	15.5	16.9	17.3
	6H	13.9	15.2	14.3	15.6	15.9	15.5	16.8	15.9	17.2	17.5
	8H	14.0	15.3	14.5	15.7	16.1	15.6	16.8	16.0	17.2	17.6
	12H	14.2	15.3	14.6	15.7	16.2	15.7	16.9	16.1	17.3	17.7

UGR Viewed Endwise

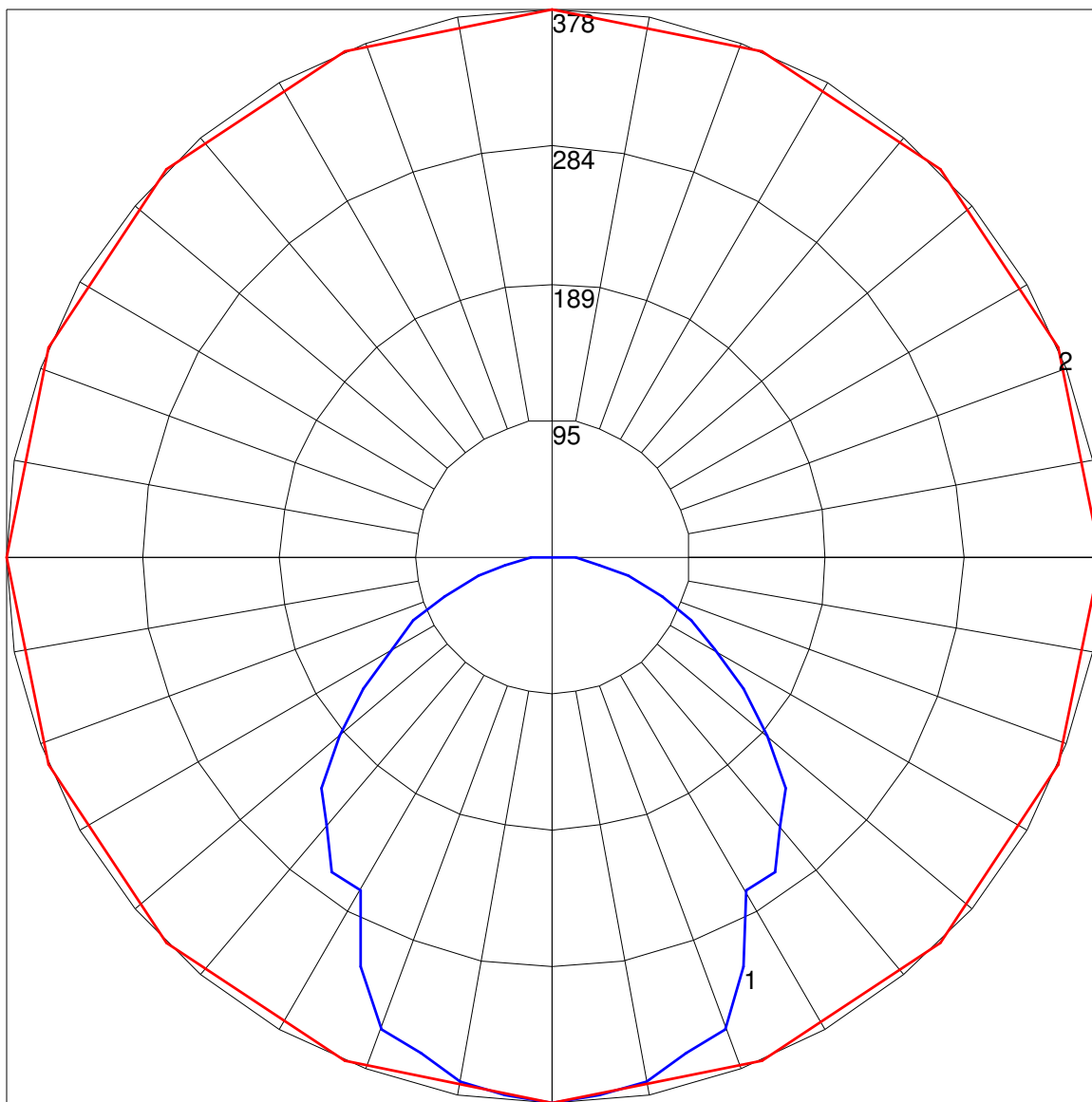
4H	2H	12.0	13.4	12.4	13.8	14.2	13.1	14.5	13.5	14.8	15.2
	3H	14.0	15.2	14.4	15.6	16.0	15.5	16.6	15.9	17.0	17.4
	4H	14.7	15.8	15.2	16.2	16.7	16.1	17.1	16.5	17.5	18.0
	6H	15.3	16.3	15.8	16.7	17.2	16.5	17.5	17.0	17.9	18.3
	8H	15.5	16.4	16.0	16.8	17.3	16.7	17.6	17.1	18.0	18.5
	12H	15.7	16.5	16.1	16.9	17.4	16.8	17.6	17.3	18.1	18.5
8H	4H	15.2	16.1	15.6	16.5	17.0	16.3	17.2	16.8	17.6	18.1
	6H	15.9	16.6	16.4	17.1	17.6	16.9	17.6	17.4	18.1	18.6
	8H	16.2	16.8	16.7	17.4	17.8	17.1	17.8	17.6	18.3	18.8
	12H	16.4	17.0	16.9	17.5	18.0	17.3	17.9	17.8	18.4	18.9
12H	4H	15.2	16.0	15.7	16.5	17.0	16.3	17.1	16.8	17.6	18.1
	6H	16.0	16.7	16.5	17.1	17.7	16.9	17.6	17.5	18.1	18.6
	8H	16.3	16.9	16.8	17.4	18.0	17.2	17.8	17.7	18.3	18.8

Maximum UGR = 18.9

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POLAR GRAPH



Maximum Candela = 378.007 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.)