



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S22-L26-940-SAF19156-(L24)DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 18124.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 09-22-2022
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMINAIRE] 2x2' RECESSED LED TROFFER LUMINAIRE
 [MORE] WHITE REFLECTOR w/PAT 12 LENS PRISMS DOWN
 [LUMCAT] 50G-S22-L26-940-SAF19156-(L24)-DIM-UNV
 [LAMPCAT] HLM 90 CRI 4000K CCT
 [_SEARCH_SOURCETYPE]LED
 [_SEARCH_APPLICATION]INDOOR,DIRECT
 [_SEARCH_MOUNTING]RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1957
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	19.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.77 ft
Luminous Width (90-270)	1.77 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2171	2216	2308
55	1789	1803	1857
65	1423	1393	1453
75	1246	1201	1197
85	1229	1132	1156

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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	853.999	853.999	853.999	853.999	853.999
5	852.761	852.142	850.286	848.429	847.810
10	835.433	836.052	836.052	834.505	837.290
15	820.272	821.510	825.841	825.223	829.555
20	756.841	764.267	767.052	770.455	777.572
25	720.948	730.231	734.563	739.823	749.724
30	664.634	670.822	680.414	685.365	699.289
35	595.014	599.037	611.104	622.243	635.239
40	522.301	524.467	535.296	546.435	560.359
45	447.730	447.421	457.013	462.273	475.888
50	372.232	372.541	379.658	378.111	392.344
55	299.209	299.828	301.684	300.447	310.657
60	231.137	230.518	230.518	227.424	237.016
65	175.441	172.656	171.728	170.800	179.154
70	130.885	128.100	126.243	126.553	129.028
75	94.064	92.207	90.660	89.732	90.351
80	61.575	61.265	60.337	58.171	58.480
85	31.251	32.489	28.776	28.776	29.395
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	310.34	N.A.	15.90
0-30	646.92	N.A.	33.10
0-40	1028.76	N.A.	52.60
0-60	1652.47	N.A.	84.40
0-80	1924.46	N.A.	98.30
0-90	1957.17	N.A.	100.00
10-90	1876.48	N.A.	95.90
20-40	718.43	N.A.	36.70
20-50	1071.26	N.A.	54.70
40-70	798.04	N.A.	40.80
60-80	271.99	N.A.	13.90
70-80	97.66	N.A.	5.00
80-90	32.71	N.A.	1.70
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	1957.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	80.69
10-20	229.65
20-30	336.58
30-40	381.85
40-50	352.83
50-60	270.88
60-70	174.33
70-80	97.66
80-90	32.71
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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55
5	79	67	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48
6	73	60	52	46	71	59	51	46	58	50	45	56	50	45	54	49	44	42
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34
9	59	46	39	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	41	34	30	40	34	30	28

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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	13.4	14.9	13.8	15.2	15.5	13.4	14.9	13.8	15.2	15.6
	3H	14.8	16.2	15.2	16.5	16.9	14.8	16.2	15.2	16.5	16.9
	4H	15.4	16.7	15.8	17.0	17.4	15.3	16.6	15.7	17.0	17.4
	6H	15.9	17.1	16.3	17.4	17.8	15.8	17.0	16.2	17.4	17.7
	8H	16.1	17.2	16.5	17.6	18.0	16.0	17.1	16.4	17.5	17.9
	12H	16.2	17.3	16.6	17.7	18.1	16.1	17.2	16.5	17.6	18.0

UGR Viewed Endwise

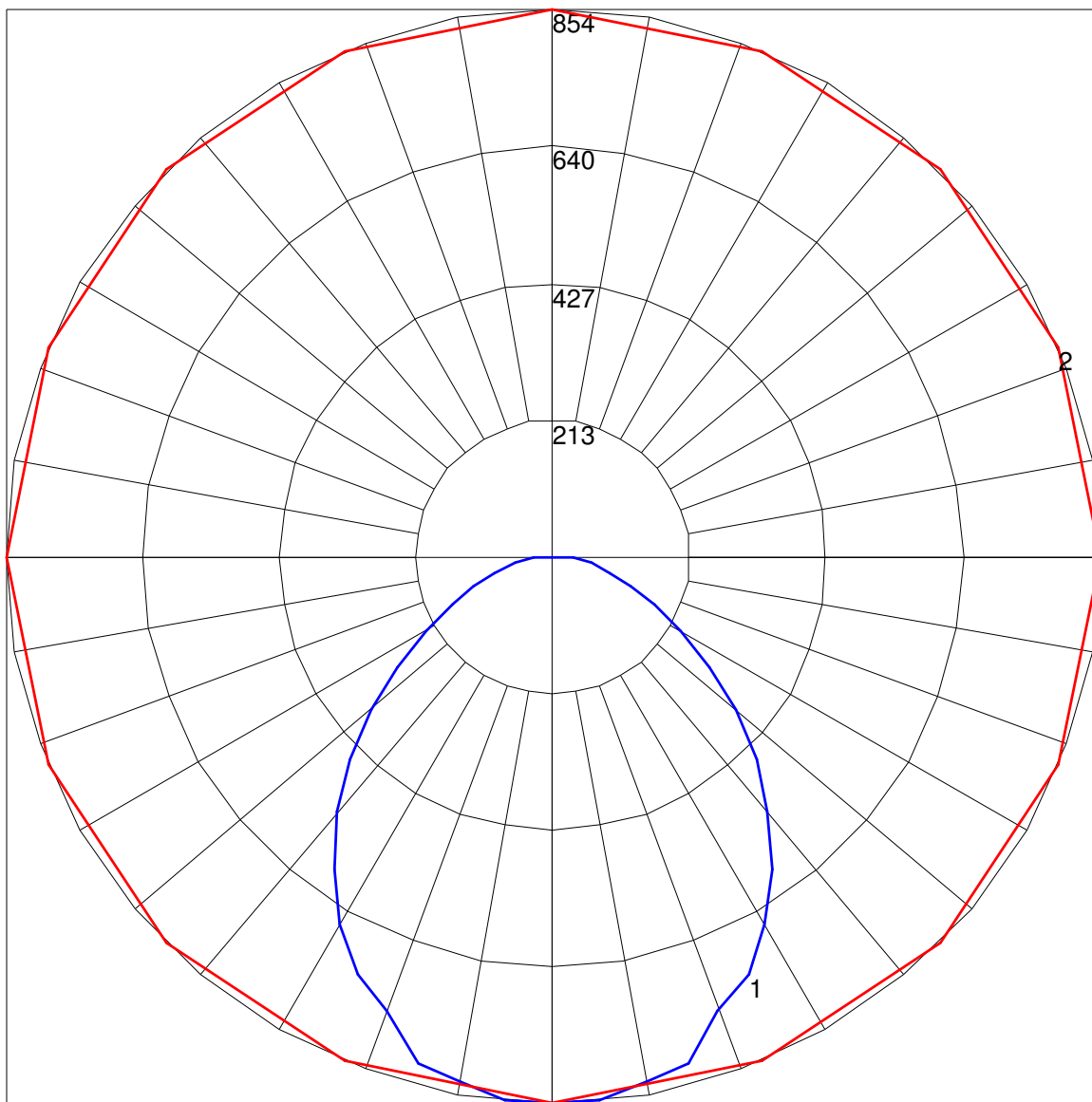
4H	2H	13.8	15.1	14.2	15.5	15.9	13.8	15.1	14.2	15.5	15.9
	3H	15.5	16.6	15.9	17.0	17.4	15.5	16.6	15.9	17.0	17.4
	4H	16.2	17.2	16.6	17.6	18.0	16.2	17.1	16.6	17.5	18.0
	6H	16.9	17.7	17.3	18.1	18.6	16.8	17.6	17.2	18.0	18.5
	8H	17.1	17.9	17.6	18.3	18.8	17.0	17.8	17.5	18.2	18.7
	12H	17.3	18.0	17.8	18.5	19.0	17.2	17.9	17.7	18.4	18.8

8H	4H	16.5	17.3	16.9	17.7	18.2	16.4	17.2	16.9	17.7	18.1
	6H	17.3	17.9	17.8	18.4	18.9	17.2	17.8	17.7	18.3	18.8
	8H	17.6	18.2	18.1	18.7	19.2	17.5	18.1	18.0	18.6	19.1
	12H	17.9	18.5	18.5	19.0	19.5	17.8	18.3	18.3	18.8	19.3

12H	4H	16.5	17.2	17.0	17.7	18.2	16.5	17.2	16.9	17.6	18.1
	6H	17.3	17.9	17.9	18.4	18.9	17.2	17.8	17.8	18.3	18.8
	8H	17.8	18.3	18.3	18.8	19.3	17.6	18.1	18.1	18.6	19.2

Maximum UGR = 19.5

POLAR GRAPH



Maximum Candela = 853.999 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.)