



IES INDOOR REPORT
PHOTOMETRIC FILENAME : GP4WA232UNIN.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]BALLABS8593.0
 [TESTLAB]BALLABS
 [ISSUE DATE]
 [MANUFAC]TECHNICAL CONSUMER PRODUCTS
 [LUMCAT]GP4WA232UNIN
 [LUMINAIRE]GENERAL PURPOSE STRIP 4' 32W T8 2-LAMP NBF
 [LAMP](2) 32-WATT T-8 LINEAR FLUORESCENTS
 [BALLAST]GE GE-232-MAX-N/ULTRA
 [_ MOUNTING]SURFACE
 [OTHER]THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.
 [OTHER]TOTAL INPUT WATTS= 51 AT 120.0 VOLTS
 [OTHER]LUMEN TO CANDELA RATIO USED 9.17

CHARACTERISTICS

Total Rated Lamp Lumens	5900 (2 lamps)
Total Luminaire Efficiency	97.9 %
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	51
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	1.26
Spacing Criteria (90-270)	1.56
Spacing Criteria (Diagonal)	1.58
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.38 ft
Luminous Height	0.13 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7275	7875	8745
55	6641	7857	9256
65	5739	8335	10140
75	4242	8428	9394
85	1758	8212	8465

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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	1128	1128	1128	1128	1128
5	1135	1131	1135	1138	1142
10	1135	1135	1147	1159	1168
15	1120	1130	1155	1178	1192
20	1068	1082	1126	1163	1180
25	1033	1058	1117	1164	1191
30	948	986	1063	1135	1166
35	897	946	1044	1129	1166
40	806	871	993	1095	1135
45	740	824	977	1098	1150
50	637	736	902	1039	1098
55	555	675	860	1028	1093
60	454	590	796	971	1042
65	361	515	763	965	1025
70	261	429	723	864	915
75	171	363	597	717	761
80	89	305	466	592	637
85	29	178	394	450	495
90	3	99	244	358	403
95	0	144	309	424	468
100	0	115	368	522	565
105	0	101	323	506	574
110	0	73	268	448	520
115	0	48	237	377	441
120	0	27	193	337	387
125	0	12	150	281	333
130	0	0	106	218	263
135	0	0	68	162	200
140	0	0	34	110	143
145	0	0	13	64	90
150	0	0	0	22	36
155	0	0	0	13	13
160	0	0	0	0	0
165	0	0	0	0	0
170	0	0	0	0	0
175	0	0	0	0	0
180	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	942.71	16	16.3
0-40	1588.65	26.9	27.5
0-60	3073.66	52.1	53.2
0-90	4714.75	79.9	81.6
90-120	837.98	14.2	14.5
90-130	974.47	16.5	16.9
90-150	1059.44	18	18.3
90-180	1061.83	18	18.4
0-180	5776.58	97.9	100

Total Luminaire Efficiency = 97.9%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	108.76
10-20	324.39
20-30	509.56
30-40	645.95
40-50	733.07
50-60	751.94
60-70	717.84
70-80	569.01
80-90	354.25
90-100	300.86
100-110	315.61
110-120	221.51
120-130	136.48
130-140	64.93
140-150	20.04
150-160	2.39
160-170	0
170-180	0

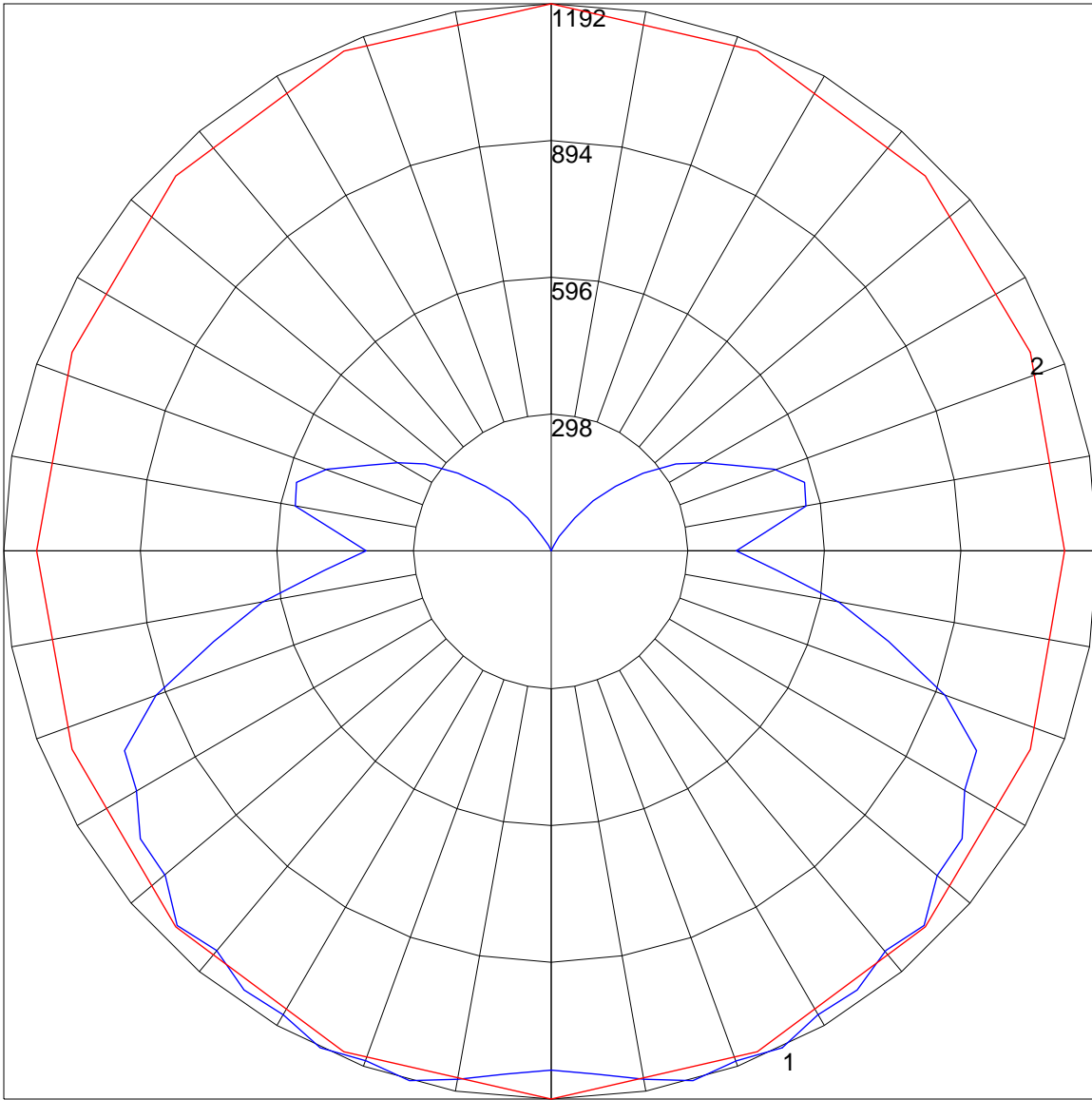
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	112	112	112	112	108	108	108	108	99	99	99	91	91	91	83	83	83	80
1	100	94	89	84	84	95	90	85	81	82	79	75	75	72	70	69	67	65	61
2	89	80	72	66	66	85	77	70	64	70	65	60	64	60	56	59	55	52	48
3	81	69	60	53	53	77	66	58	52	61	54	49	56	50	45	51	46	42	39
4	73	61	51	44	44	70	58	50	43	53	46	40	49	43	38	45	40	36	33
5	67	54	44	37	37	64	52	43	36	47	40	34	43	37	32	40	35	30	28
6	62	48	39	32	32	59	46	38	31	42	35	30	39	33	28	36	31	26	24
7	57	43	34	28	28	54	42	33	27	38	31	26	35	29	24	33	27	23	21
8	53	39	31	25	25	50	38	30	24	35	28	23	32	26	22	30	24	20	18
9	49	36	28	22	22	47	35	27	21	32	25	20	30	24	19	27	22	18	16
10	46	33	25	20	20	44	32	24	19	30	23	18	27	22	17	25	20	17	15

POLAR GRAPH



Maximum Candela = 1192 Located At Horizontal Angle = 90, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)