



Distribution - Goniophotometer

Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
#NUM!	#NUM!	#NUM!	164.2 W	N/A	N/A	N/A

Summary of Results

Spacing Criteria

0-180: 1.28

90-270: 1.25

Total Lumen Output:

8692 Lumens

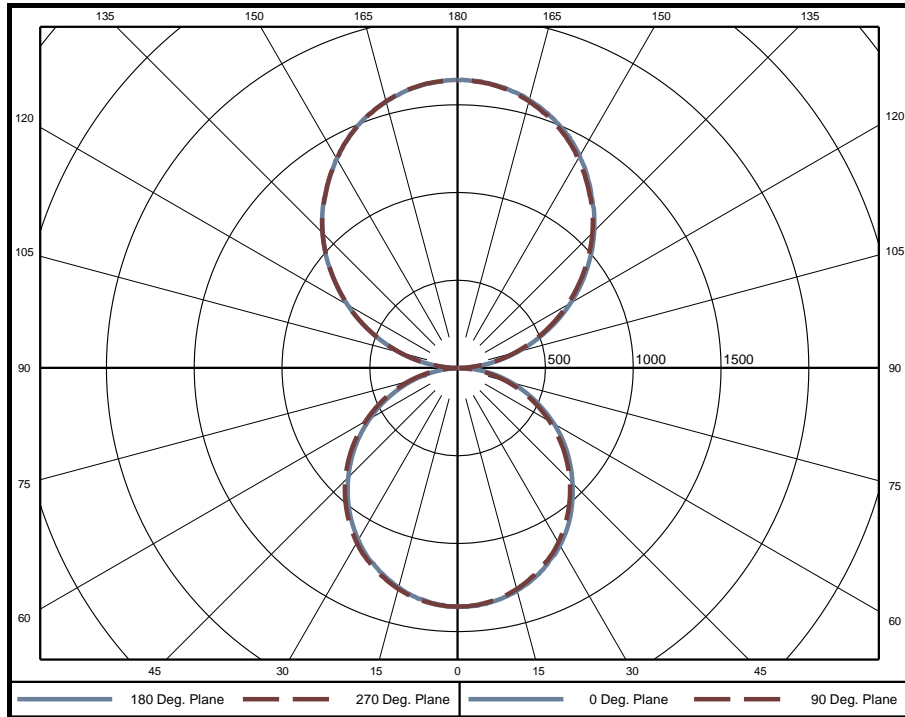
Luminaire Efficacy:

53.0 lm/w

Maximum Candela:

1642 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	32.4	0.4%	60-65	268.3	3.1%	120-125	365.3	4.2%
5-10	96.1	1.1%	65-70	225.4	2.6%	125-130	397.6	4.6%
10-15	156.4	1.8%	70-75	177.0	2.0%	130-135	417.5	4.8%
15-20	211.3	2.4%	75-80	125.2	1.4%	135-140	423.3	4.9%
20-25	258.9	3.0%	80-85	70.9	0.8%	140-145	414.4	4.8%
25-30	298.6	3.4%	85-90	20.3	0.2%	145-150	393.2	4.5%
30-35	327.3	3.8%	90-95	26.3	0.3%	150-155	359.2	4.1%
35-40	345.0	4.0%	95-100	85.1	1.0%	155-160	312.6	3.6%
40-45	351.3	4.0%	100-105	149.4	1.7%	160-165	255.1	2.9%
45-50	346.3	4.0%	105-110	211.7	2.4%	165-170	188.8	2.2%
50-55	330.3	3.8%	110-115	270.5	3.1%	170-175	116.0	1.3%
55-60	303.8	3.5%	115-120	322.6	3.7%	175-180	39.1	0.4%

Zone	Lumens	% of Luminaire
0-40	1726	19.9%
0-60	3058	35.2%
0-90	3945	45.4%
90-180	4748	54.6%



Candela Tabulation

Horizontal Angle (Degrees)

Vertical Angle (Degrees)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
	0	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359
	5	1358	1357	1354	1352	1353	1351	1351	1353	1351	1353	1351	1351	1353	1352	1354
	10	1339	1337	1336	1336	1333	1333	1332	1332	1329	1332	1332	1333	1333	1336	1336
	15	1311	1307	1307	1306	1303	1301	1300	1298	1293	1298	1300	1301	1303	1306	1307
	20	1274	1265	1265	1262	1260	1258	1256	1254	1247	1254	1256	1258	1260	1262	1265
	25	1224	1216	1216	1211	1210	1207	1205	1203	1198	1203	1205	1207	1210	1211	1216
	30	1167	1156	1155	1152	1148	1145	1142	1140	1130	1140	1142	1145	1148	1152	1155
	35	1098	1084	1082	1079	1074	1071	1068	1065	1055	1065	1068	1071	1074	1079	1082
	40	1015	1003	1001	997	993	989	985	983	971	983	985	989	993	997	1001
	45	927	916	914	910	905	900	896	893	880	893	896	900	905	910	914
	50	835	822	820	816	809	804	800	796	784	796	800	804	809	816	820
	55	739	723	721	715	709	704	698	695	682	695	698	704	709	715	721
	60	635	620	617	612	605	600	594	590	577	590	594	600	605	612	617
	65	526	514	512	506	499	492	487	482	470	482	487	492	499	506	512
	70	420	408	406	399	392	386	379	375	362	375	379	386	392	399	406
	75	316	303	299	294	286	280	273	269	255	269	273	280	286	294	299
	80	214	199	195	190	181	175	169	164	153	164	169	175	181	190	195
	85	110	96	94	87	79	72	66	62	51	62	66	72	79	87	94
	90	17	11	10	8	7	6	5	3	1	3	5	6	7	8	10
	95	104	114	110	101	91	89	87	84	93	84	87	89	91	101	110
	100	226	235	232	221	212	211	209	202	214	202	209	211	212	221	232
	105	353	360	355	343	338	335	331	326	339	326	331	335	338	343	355
	110	484	487	483	471	466	462	458	454	466	454	458	462	466	471	483
	115	617	617	612	600	596	592	588	584	597	584	588	592	596	600	612
	120	746	745	739	728	725	722	717	713	725	713	717	722	725	728	739
	125	872	870	863	855	848	849	841	839	850	839	841	849	848	855	863
	130	990	992	983	977	971	970	965	965	973	965	965	970	971	977	983
	135	1102	1106	1098	1093	1087	1084	1081	1080	1087	1080	1081	1084	1087	1093	1098
	140	1202	1210	1202	1199	1192	1188	1186	1186	1193	1186	1186	1188	1192	1199	1202
	145	1301	1304	1298	1294	1286	1283	1283	1280	1286	1280	1283	1283	1286	1294	1298
	150	1393	1396	1386	1386	1375	1374	1370	1369	1376	1369	1370	1374	1375	1386	1396
	155	1470	1472	1464	1463	1456	1452	1449	1450	1457	1450	1449	1452	1456	1463	1472
	160	1531	1530	1527	1527	1519	1515	1515	1516	1522	1516	1515	1515	1519	1527	1530
	165	1580	1580	1577	1575	1574	1569	1570	1568	1570	1568	1570	1569	1574	1575	1577
	170	1615	1615	1612	1613	1611	1608	1607	1606	1608	1606	1607	1608	1611	1613	1615
	175	1636	1634	1632	1634	1633	1632	1631	1630	1630	1630	1631	1632	1633	1634	1634
	180	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

Vertical Angle (Degrees)	0	45	90
	0	1140	1140
	45	4738	4672
	55	4657	4543
	65	920	895
	75	474	449
	85	150	128



Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 20%																		
Ceiling Cavity Reflectance	80				70				50			30			10			0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as percent of total lumen output delivered to the task surface **																	
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45
1	96	92	88	85	88	85	81	78	70	68	66	57	56	54	45	44	43	38
2	88	80	74	69	80	74	68	64	61	57	54	50	47	45	40	38	36	31
3	80	70	63	57	73	65	58	53	54	49	45	44	41	38	35	33	30	26
4	73	62	54	48	66	57	50	45	48	42	38	39	35	32	31	28	26	22
5	67	55	47	41	61	51	44	38	43	37	33	35	31	28	28	25	23	19
6	61	49	41	35	56	46	38	33	38	33	29	32	27	24	25	22	20	17
7	57	44	36	31	52	41	34	29	35	29	25	29	24	21	23	20	18	15
8	53	40	32	27	48	37	30	25	32	26	22	26	22	19	21	18	16	13
9	49	37	29	24	45	34	27	23	29	23	20	24	20	17	19	16	14	12
10	46	34	26	22	42	31	25	20	27	21	18	22	18	15	18	15	13	11

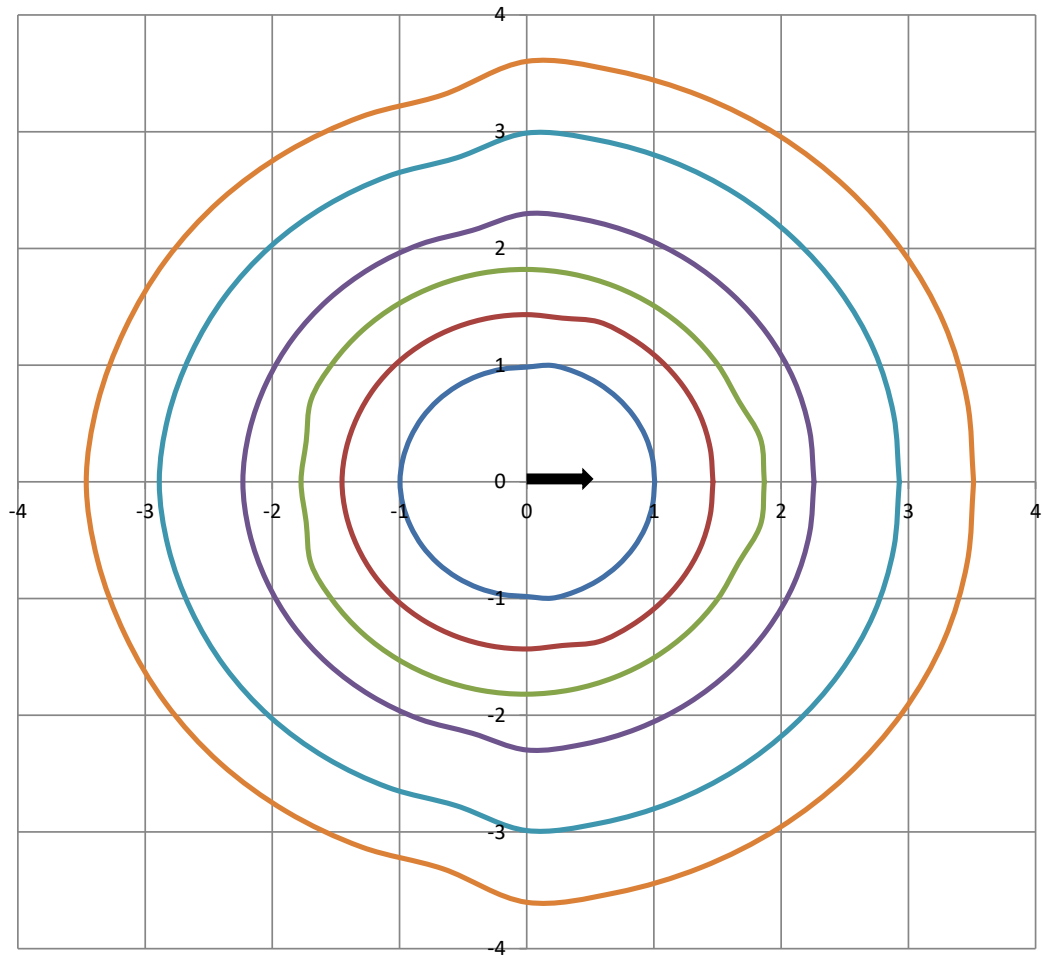
Beam and Field Information	
CIE Type:	Direct/Indirect
Center Beam Intensity:	1359 Candela
Central Cone Intensity:	1357 Candela
Beam Flux:	6657.0 Lumens
Beam Angle (0-180):	113.0 Degrees
Beam Angle (90-270):	112.9 Degrees
Field Angle (0-180):	164.6 Degrees
Field Angle (90-270):	164.4 Degrees

Cone of Light Tabulation			
Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
4.00		84.9	5.02
6.00		37.7	7.53
8.00		21.2	10.0
10.0		13.6	12.6
12.0		9.44	15.1
14.0		6.93	17.6
16.0		5.31	20.1



ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

5 fc 2 fc 1 fc 0.5 fc 0.2 fc 0.1 fc